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| Discount Rate | Icom America offers Houston-Galveston Area Council (HGAC) End-users a fixed discount rate is based on product group and subject to Icom America's current published retail. |
| Amateur | 15% from published retail |
| Avionics | 30% from published retail |
| Landmobile | 25% from published retail |
| Marine | 30% from published retail |
| Systems | 25% from published retail |
| Network (fka WLAN) | 20% from published retail |
| Accessories | 25% from published retail |
| Optional Services | Net Pricing |
| Retail Prices | The retail prices offered herein are from June 2020 and for reference purposes only. |
| Shipping Terms | FOB Destination. Icom America offers free surface freight on all orders for the State (CONUS). |

| AMATEUR | | | |
|-----------------|--------------------------------------------------------------------------------------------------------------------|---------------|------------------------|
| Model | Description | Retail | HGAC Unit Price |
| 2300H 05 | 65W, 2m (144-148MHz) mobile | \$ 236.00 | \$ 200.60 |
| 2730A 05 | VHF/UHF dual band transceiver | \$ 352.00 | \$ 299.20 |
| 7100 02 | HF/6m/2m/70cm mobile transceiver | \$ 1,325.00 | \$ 1,126.25 |
| 718 62 | 100W HF transceiver with AF DSP | \$ 800.00 | \$ 680.00 |
| 7300 02 | HF/6m transceiver with an IF-DSP and internal ATU | \$ 1,699.00 | \$ 1,444.15 |
| 7610 | 100W HF/50MHz amateur radio base station | \$ 4,278.00 | \$ 3,636.30 |
| 7700 12 | 200W HF + 6m transceiver with single receiver | \$ 7,800.00 | \$ 6,630.00 |
| 7851 02 | 200W HF + 6m transceiver with 2 independent receivers, internal power supply and antenna tuner (ATU) | \$16,000.00 | \$ 13,600.00 |
| 9700 12 | VHF/UHF transceiver | \$ 2,200.00 | \$ 1,870.00 |
| ID4100A | VHF/UHF dual band D-STAR mobile | \$ 399.00 | \$ 339.15 |
| ID5100A DELUXE | Dual band, 2m/70cm (144-148/420-450MHz), D-Star mobile radio with MB-A2 remote mounting bracket included | \$ 514.00 | \$ 436.90 |
| R30 16 | Blocked receiver handheld w/dual receive & dual band recording | \$ 725.00 | \$ 616.25 |
| R30 20 | Unblocked receiver handheld w/dual receive & dual band recording | \$ 725.00 | \$ 616.25 |
| R6 SPORT | Scanning receiver. Blocked version for consumer purchase. No supplied battery or charger. Requires 2 AA batteries. | \$ 225.00 | \$ 191.25 |
| R6E | Unblocked receiver for Federal/Export Only. No supplied battery or charger. Requires 2 AA batteries. | \$ 225.00 | \$ 191.25 |
| R8600 02 | Blocked super wideband 10 kHz to 3 GHz communication receiver | \$ 3,000.00 | \$ 2,550.00 |
| R8600 04 | Unblocked super wideband 10 kHz to 3 GHz communication receiver | \$ 3,000.00 | \$ 2,550.00 |
| R9500 02 | Blocked version for consumer purchase | \$16,000.00 | \$ 13,600.00 |
| R9500 06 | Unblocked for Federal/Export Only | \$17,500.00 | \$ 14,875.00 |
| V86 12 | 2m 7W VHF handheld | \$ 142.00 | \$ 120.70 |
| AVIONICS | | | |
| Model | Description | Retail | HGAC Unit Price |
| A120 | Airband mobile with 200 channels with open VFO, 8.33/25kHz | \$ 1,585.00 | \$ 1,109.50 |
| A120B | A120 with 120V power supply and cabinet for base station | \$ 1,825.00 | \$ 1,277.50 |
| A120BE | A120 with 220V power supply and cabinet for base station | \$ 1,860.00 | \$ 1,302.00 |
| A16 | Communications only airband handheld with full DTMF keypad | \$ 405.00 | \$ 283.50 |
| A16B | Communications only airband handheld with Bluetooth and full DTMF keypad | \$ 480.00 | \$ 336.00 |
| A220 | Panel mount aviation radio | \$ 2,150.00 | \$ 1,505.00 |
| A220B | Radio plus PS80 power supply for base station option (radio not installed into power supply) | \$ 3,630.00 | \$ 2,541.00 |
| A220M | Radio with MB-53 for mobile mount | \$ 2,680.00 | \$ 1,876.00 |
| A220T | TSO approved panel mount aviation radio | \$ 2,720.00 | \$ 1,904.00 |
| A25C | Communications only aviation handheld 6W with li-ion battery and rapid charger | \$ 710.00 | \$ 497.00 |
| A25C SPORT | Communications only aviation handheld 6W and AA battery pack | \$ 505.00 | \$ 353.50 |
| A25N | Communications plus navigation aviation handheld 6W | \$ 800.00 | \$ 560.00 |

| Model | Description | Retail | HGAC Unit Price |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|
| LANDMOBILE | | | |
| Model | Description | Retail | HGAC Unit Price |
| F1000 RC | 136-174MHz 16 CH, no display, analog portable with rapid charger | \$ 260.00 | \$ 195.00 |
| F1000S RC | 136-174MHz, 128 CH, LCD, 4-key analog portable with rapid charger | \$ 340.00 | \$ 255.00 |
| F1000T RC | 136-174MHz, 128CH, LCD, full DTMF keypad analog portable w/BC213 | \$ 370.00 | \$ 277.50 |
| F1100D | 136-174MHz IDAS portable with 16 channels and no display | \$ 405.00 | \$ 303.75 |
| F1100DS | 136-174MHz IDAS portable with 128 channels, display and limited keypad | \$ 450.00 | \$ 337.50 |
| F1100DT | 136-174MHz IDAS portable with 128 channels, display and full DTMF keypad | \$ 500.00 | \$ 375.00 |
| F2000H RC | 450-512MHz analog handheld, 16 CH, no LCD; BC213 included | \$ 260.00 | \$ 195.00 |
| F2000L RC | 400-470MHz 16 channel, no display, charger in box | \$ 260.00 | \$ 195.00 |
| F2000SH RC | 450-512MHz, 128 CH, LCD, 4-key with rapid charger | \$ 340.00 | \$ 255.00 |
| F2000SL RC | 400-470MHz, 128 CH, LCD, 4-key, charger in the box | \$ 340.00 | \$ 255.00 |
| F2000TL RC | 400-470MHz, 128 CH, LCD, full DTMF keypad with BC213 | \$ 370.00 | \$ 277.50 |
| F2100D 16 | 450-512MHz IDAS portable with 16 channels and no display | \$ 360.00 | \$ 270.00 |
| F2100DL RC | 400-470MHz IDAS portable (5W) with 16 channels + rapid charger and no display | \$ 405.00 | \$ 303.75 |
| F2100DS 26 | 450-512MHz IDAS portable with 128 channels, display and limited keypad | \$ 450.00 | \$ 337.50 |
| F2100DT 31 | 400-470MHz IDAS portable with 128 channels, LCD, full DTMF keypad | \$ 500.00 | \$ 375.00 |
| F2100DT 36 | 450-512MHz IDAS portable with 128 channels, LCD, full DTMF keypad | \$ 500.00 | \$ 375.00 |
| F2821D 23 | 400-470MHz analog mobile, upgradeable to P25 | \$ 690.00 | \$ 517.50 |
| F3001 03 RC | 136-174MHz radio with 1900mAh Li-ion battery & rapid charger (BC-193) | \$ 198.00 | \$ 148.50 |
| F3201DEX 14 | 136-174MHz ATEX intrinsically safe IDAS portable | \$ 1,250.00 | \$ 937.50 |
| F3210D 01 | 136-174MHz IDAS 16 channel MultiTrunk portable with rapid charger (BC193) | \$ 485.00 | \$ 363.75 |
| F3230DS 13 | 136-174MHz IDAS 128 channel MultiTrunk portable with display. Charger (BC-160) included. | \$ 535.00 | \$ 401.25 |
| F3261DS 55 | 136-174MHz waterproof IDAS radio with GPS, no DTMF keypad | \$ 800.00 | \$ 600.00 |
| F3261DT 35 RR | Railroad specific version: 136-174MHz 512 channel, IDAS waterproof portable radio with a DTMF keypad and GPS. Special railroad firmware installed. | \$ 880.00 | \$ 660.00 |
| F3261DT 40 | 136-174MHz waterproof IDAS radio with GPS, full DTMF keypad | \$ 845.00 | \$ 633.75 |
| F3400D 21 | 136-174MHz IDAS portable with 32 channels and no display. Purchase antenna and charger separately. | \$ 795.00 | \$ 596.25 |
| F3400DS 11 | 136-174MHz IDAS portable with 1024 channels and a color display. Purchase antenna and charger separately. | \$ 820.00 | \$ 615.00 |
| F3400DT 01 | 136-174MHz IDAS portable with 1024 channels, a color display, and full DTMF keypad. Purchase antenna and charger separately. | \$ 880.00 | \$ 660.00 |
| F4001 03 RC | 400-470MHz radio with 1900mAh Li-ion battery & rapid charger (BC-193) | \$ 198.00 | \$ 148.50 |
| F4001 43 RC | 450-512MHz radio with 1900mAh Li-ion battery & rapid charger (BC-193) | \$ 198.00 | \$ 148.50 |
| F4201DEX 24 | 400-470MHz ATEX intrinsically safe IDAS portable | \$ 1,250.00 | \$ 937.50 |
| F4210D 01 | 400-470MHz IDAS 16 channel MultiTrunk portable with rapid charger (BC193) | \$ 485.00 | \$ 363.75 |
| F4230DS 13 | 400-470MHz IDAS 128 channel MultiTrunk portable with display. Charger (BC-160) included. | \$ 535.00 | \$ 401.25 |
| F4230DS 32 | 450-512MHz IDAS 128 channel MultiTrunk portable with display. Charger (BC-160) included. | \$ 535.00 | \$ 401.25 |
| F4261DS 65 | 400-470MHz waterproof IDAS radio with GPS, no DTMF keypad | \$ 800.00 | \$ 600.00 |
| F4261DS 90 | 450-512MHz waterproof IDAS radio with GPS, no DTMF keypad | \$ 800.00 | \$ 600.00 |
| F4261DT 55 | 400-470MHz waterproof IDAS radio with GPS, full DTMF keypad | \$ 845.00 | \$ 633.75 |
| F4261DT 85 | 450-512MHz waterproof IDAS radio with GPS, full DTMF keypad | \$ 845.00 | \$ 633.75 |
| F4400DS 11 | 380-470MHz IDAS portable with 1024 channels, and a color display. Purchase antenna and charger separately. | \$ 820.00 | \$ 615.00 |
| F4400DS 41 | 450-512MHz IDAS portable with 1024 channels and a color display. Purchase antenna and charger separately. | \$ 820.00 | \$ 615.00 |
| F4400DT 01 | 380-470MHz IDAS portable with 1024 channels, a color display, and full DTMF keypad. Purchase antenna and charger separately. | \$ 880.00 | \$ 660.00 |
| F4400DT 31 | 450-512MHz IDAS portable with 1024 channels, a color display, and full DTMF keypad. Purchase antenna and charger separately. | \$ 880.00 | \$ 660.00 |
| F5011 51 | 136-174MHz mobile | \$ 346.00 | \$ 259.50 |

| Model | Description | Retail | HGAC Unit Price |
|------------|-----------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|
| F5021 51 | 136-174MHz mobile | \$ 395.00 | \$ 296.25 |
| F5061 | 136-174MHz analog mobile | \$ 600.00 | \$ 450.00 |
| F5061D | 136-174MHz IDAS mobile | \$ 785.00 | \$ 588.75 |
| F5061D RR | 136-174MHz IDAS radio, RR firmware installed, HM-148T included | \$ 853.00 | \$ 639.75 |
| F5121D | 136-174MHz IDAS mobile | \$ 635.00 | \$ 476.25 |
| F5122DD 12 | 136-174MHz, 9.6k/4.8kbps, 25W, RS232 + ethernet | \$ 800.00 | \$ 600.00 |
| F5220D | 136-174MHz IDAS mobile | \$ 665.00 | \$ 498.75 |
| F52D | 136-174MHz compact, IDAS, waterproof portable with 512 channels. Purchase antenna and charger separately. | \$ 680.00 | \$ 510.00 |
| F52DUL | 136-174MHz intrinsically safe, IDAS waterproof portable with 512 channels. Purchase antenna and charger separately. | \$ 900.00 | \$ 675.00 |
| F5400D 01 | 136-174MHz IDAS mobile with color display | \$ 955.00 | \$ 716.25 |
| F5400DS 11 | 136-174MHz IDAS mobile with numerical display | \$ 940.00 | \$ 705.00 |
| F6011 51 | 400-470MHz mobile | \$ 346.00 | \$ 259.50 |
| F6011 52 | 450-512MHz mobile | \$ 346.00 | \$ 259.50 |
| F6021 51 | 400-470MHz mobile | \$ 395.00 | \$ 296.25 |
| F6021 52 | 450-512MHz mobile | \$ 395.00 | \$ 296.25 |
| F6061 46 | 450-512MHz analog mobile | \$ 600.00 | \$ 450.00 |
| F6061D 61 | 400-470MHz IDAS mobile | \$ 785.00 | \$ 588.75 |
| F6061D 66 | 450-512MHz IDAS mobile | \$ 785.00 | \$ 588.75 |
| F6121D 67 | 400-470MHz IDAS mobile | \$ 635.00 | \$ 476.25 |
| F6121D 68 | 450-512MHz IDAS mobile | \$ 635.00 | \$ 476.25 |
| F6122DD 12 | 400-470MHz, 9.6k/4.8kbps, 25W, RS232 + ethernet | \$ 800.00 | \$ 600.00 |
| F6220D 11 | 400-470MHz IDAS mobile | \$ 665.00 | \$ 498.75 |
| F6220D 22 | 450-512MHz IDAS mobile | \$ 665.00 | \$ 498.75 |
| F62D 11 | 400-470MHz compact IDAS waterproof portable with 512 channels. Purchase antenna and charger separately. | \$ 680.00 | \$ 510.00 |
| F62D 21 | 450-512MHz compact IDAS waterproof portable with 512 channels. Purchase antenna and charger separately. | \$ 680.00 | \$ 510.00 |
| F62DUL 11 | 400-470MHz intrinsically safe, compact IDAS waterproof portable with 512 channels. Purchase antenna and charger separately. | \$ 900.00 | \$ 675.00 |
| F62DUL 21 | 450-512MHz intrinsically safe, compact IDAS waterproof portable with 512 channels. Purchase antenna and charger separately. | \$ 900.00 | \$ 675.00 |
| F6400D 01 | 380-470MHz IDAS mobile with color display | \$ 955.00 | \$ 716.25 |
| F6400D 21 | 450-512MHz IDAS mobile with color display | \$ 955.00 | \$ 716.25 |
| F6400DS 11 | 380-470MHz IDAS mobile with numeric display | \$ 940.00 | \$ 705.00 |
| F7010S | 136-174MHz P25 conventional portable without a full keypad. Purchase antenna and charger separately. | \$ 1,580.00 | \$ 1,185.00 |
| F7010T | 136-174MHz P25 conventional portable with full DTMF keypad. Purchase antenna and charger separately. | \$ 1,650.00 | \$ 1,237.50 |
| F7020S 11 | 380-470MHz P25 conventional portable without a full keypad. Purchase antenna and charger separately. | \$ 1,580.00 | \$ 1,185.00 |
| F7020S 31 | 450-512MHz P25 conventional portable without a full keypad. Purchase antenna and charger separately. | \$ 1,580.00 | \$ 1,185.00 |
| F7020T 21 | 380-470MHz P25 conventional portable with full DTMF keypad. Purchase antenna and charger separately. | \$ 1,650.00 | \$ 1,237.50 |
| F7020T 41 | 450-512MHz P25 conventional portable with full DTMF keypad. Purchase antenna and charger separately. | \$ 1,650.00 | \$ 1,237.50 |
| F7040S | 7/800MHz P25 conventional portable with partial keypad. | \$ 1,600.00 | \$ 1,200.00 |
| F7040T | 7/800MHz P25 conventional portable with full DTMF keypad. | \$ 1,670.00 | \$ 1,252.50 |
| F7510 | 136-174MHz P25 conventional mobile with color display | \$ 1,720.00 | \$ 1,290.00 |
| F7520 11 | 380-470MHz P25 conventional mobile with color display | \$ 1,720.00 | \$ 1,290.00 |
| F7520 21 | 450-512MHz P25 conventional mobile with color display | \$ 1,720.00 | \$ 1,290.00 |
| F7540 | 700/800MHz P25 conventional mobile with color display | \$ 1,720.00 | \$ 1,290.00 |
| F80DS 31 | 380-450MHz P25 radio with FIPS AES installed, no DTMF keypad | \$ 1,065.00 | \$ 798.75 |
| F8101 33 | HF 125W transceiver with ALE (automatic link establishment) | \$ 3,750.00 | \$ 2,812.50 |

| Model | Description | Retail | HGAC Unit Price |
|---------------------|---------------------------------------------------------------------------------------------------------------------|-------------|-----------------|
| F9011B 01 | 136-174MHz P25 conventional portable, 6W, 512 CH, basic model, no display or keypad | \$ 1,265.00 | \$ 948.75 |
| F9011B 21 | 136-174MHz P25 Conventional portable, 6W, 512 CH, basic model, no display or keypad | \$ 1,330.00 | \$ 997.50 |
| F9011S 25 | 136-174MHz P25 Conventional portable, 6W, 512 CH, display, simple keypad | \$ 1,530.00 | \$ 1,147.50 |
| F9011T 30 | 136-174MHz P25 Conventional portable, 6W, 512 CH, display, full DTMF keypad | \$ 1,630.00 | \$ 1,222.50 |
| F9021B 82 | 450-512MHz P25 Conventional portable, 5W, 512 CH, basic model, no display or keypad | \$ 1,330.00 | \$ 997.50 |
| F9021B 91 | 380-470MHz P25 Conventional portable, 5W, 512 CH, basic model, no display or keypad | \$ 1,330.00 | \$ 997.50 |
| F9021S 85 | 450-512MHz P25 Conventional, 5W, 512 CH, display, simple keypad | \$ 1,530.00 | \$ 1,147.50 |
| F9021S 95 | 380-470MHz P25 Conventional portable, 5W, 512 CH, display, simple keypad | \$ 1,530.00 | \$ 1,147.50 |
| F9021T 30 | 450-512MHz P25 Trunking portable, 5W, 512 CH, display, full DTMF keypad | \$ 1,550.00 | \$ 1,162.50 |
| F9021T 89 | 450-512MHz P25 Conventional portable, 5W, 512 CH, display, full DTMF keypad | \$ 1,630.00 | \$ 1,222.50 |
| F9021T 98 | 380-470MHz P25 Conventional portable, 5W, 512 CH, display, full DTMF keypad | \$ 1,630.00 | \$ 1,222.50 |
| F9511HT 21 | 136-174MHz 110W P25 Conventional mobile with full keypad. No external speaker included - must be ordered separately | \$ 2,700.00 | \$ 2,025.00 |
| F9511S 01 | 136-174MHz P25 conventional 50W mobile | \$ 1,605.00 | \$ 1,203.75 |
| F9511T 25 | 136-174MHz P25 Conventional 50W mobile with keypad | \$ 1,810.00 | \$ 1,357.50 |
| F9521S 31 | 450-512MHz 45W P25 conventional mobile, no keypad | \$ 2,060.00 | \$ 1,545.00 |
| F9521S 41 | 400-470MHz 45W P25 Conventional mobile, no keypad | \$ 1,690.00 | \$ 1,267.50 |
| F9521S 51 | 450-512 MHz P25 conventional 45W mobile with no keypad | \$ 1,690.00 | \$ 1,267.50 |
| F9521T 25 | 400-470MHz mobile with full keypad | \$ 1,720.00 | \$ 1,290.00 |
| F9521T 45 | 400-470MHz P25 Conventional 45W mobile, full keypad | \$ 1,810.00 | \$ 1,357.50 |
| F9521T 55 | 450-512MHz P25 Conventional 45W mobile with full keypad | \$ 1,810.00 | \$ 1,357.50 |
| SYSTEMS | | | |
| Model | | Retail | HGAC Unit Price |
| CY5000 | 136-174MHz IDAS analog/digital repeater with power supply | \$ 2,625.00 | \$ 1,968.75 |
| CY6001 | 400-470MHz IDAS analog/digital repeater with power supply | \$ 2,625.00 | \$ 1,968.75 |
| CY6002 | 450-512MHz IDAS analog/digital repeater with power supply | \$ 2,625.00 | \$ 1,968.75 |
| FR5000 01 2CH KIT | 136-174MHz 2 channel conventional system (2 repeaters, 2 external power supplies) | \$ 3,130.00 | \$ 2,347.50 |
| FR5000 01 UR KIT | 136-174MHz, 2 channel analog/digital repeater (FR5000 + URFR5000 installed) | \$ 2,695.00 | \$ 2,021.25 |
| FR5000 14 | 136-174MHz analog/digital IDAS repeater (power supply not included) | \$ 2,165.00 | \$ 1,623.75 |
| FR5200H 51 | 136-174MHz 50W analog, IDAS repeater 100% duty cycle | \$ 3,780.00 | \$ 2,835.00 |
| FR6000 01 2CH KIT | 400-470MHz 2 channel conventional system (2 repeaters, 2 external power supplies) | \$ 3,130.00 | \$ 2,347.50 |
| FR6000 01 UR KIT | 400-470MHz, 2 channel analog/digital repeater (FR6000+URFR6000 installed) | \$ 2,695.00 | \$ 2,021.25 |
| FR6000 11 2CH KIT | 450-512MHz 2 channel conventional system (2 repeaters, 2 external power supplies) | \$ 3,130.00 | \$ 2,347.50 |
| FR6000 11 UR KIT | 450-512MHz, 2 channel analog/digital repeater (FR6000 + URFR6000 installed) | \$ 2,695.00 | \$ 2,021.25 |
| FR6000 14 | 400-470MHz analog/digital IDAS repeater (power supply not included) | \$ 2,165.00 | \$ 1,623.75 |
| FR6000 19 | 450-512MHz analog/digital IDAS repeater (power supply not included) | \$ 2,165.00 | \$ 1,623.75 |
| FR6200H 51 | 400-470MHz 50W analog, IDAS repeater 100% duty cycle | \$ 3,780.00 | \$ 2,835.00 |
| FR6200H 61 | 450-512MHz 50W analog, IDAS repeater 100% duty cycle | \$ 3,780.00 | \$ 2,835.00 |
| FR9010 11 | 146-174MHz 110W P25 repeater | \$ 8,700.00 | \$ 6,525.00 |
| FR9020 11 | 440-475MHz 100W P25 repeater | \$ 8,700.00 | \$ 6,525.00 |
| IAS X-BAND 50 | VHF FM & UHF FM cross band repeater | \$ 2,700.00 | \$ 2,025.00 |
| IAS X-BAND 50 AIR U | Airband AM & UHF FM cross band repeater | \$ 3,495.00 | \$ 2,621.25 |
| IAS X-BAND 50 AIR V | Airband AM & VHF FM cross band repeater | \$ 3,495.00 | \$ 2,621.25 |
| IAS X-BAND 50 UU | UHF FM & UHF FM cross band repeater | \$ 2,700.00 | \$ 2,025.00 |
| IAS X-BAND 50 VV | VHF FM & VHF FM cross band repeater | \$ 2,700.00 | \$ 2,025.00 |
| RFT 136-174 | 100W analog 136-174MHz repeater with a power supply (P25 upgradeable) | \$11,780.00 | \$ 8,835.00 |
| RFT 400-430 | 100W analog 400-430MHz repeater with a power supply (P25 upgradeable) | \$10,395.00 | \$ 7,796.25 |
| RFT 440-490 | 100W analog 440-490MHz repeater with a power supply (P25 upgradeable) | \$10,395.00 | \$ 7,796.25 |

| Model | Description | Retail | HGAC Unit Price |
|-----------------|-------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|
| RFT 485-520 | 100W P25/analog 485-520MHz repeater with a power supply | \$10,395.00 | \$ 7,796.25 |
| RFT P25 136-174 | 2-120W P25/analog 136-174MHz repeater with a power supply | \$14,700.00 | \$ 11,025.00 |
| RFT P25 400-430 | 100W P25/analog 400-430MHz repeater with a power supply | \$15,520.00 | \$ 11,640.00 |
| RFT P25 440-490 | 100W P25/analog 440-490MHz repeater with a power supply | \$13,305.00 | \$ 9,978.75 |
| RFT P25 485-520 | 100W P25/analog 485-520MHz repeater with a power supply | \$15,520.00 | \$ 11,640.00 |
| URFR5000 63 | 136-174MHz analog/digital repeater channel module | \$ 1,205.00 | \$ 903.75 |
| URFR6000 63 | 400-470MHz repeater module | \$ 1,205.00 | \$ 903.75 |
| URFR6000 67 | 450-512MHz repeater module | \$ 1,205.00 | \$ 903.75 |
| NETWORK | | | |
| Model | Description | Retail | HGAC Unit Price |
| IP1000C 100 | Manages up to 100 radios in a network | \$ 1,665.00 | \$ 1,332.00 |
| IP100FS | IP based PC-dispatcher | \$ 1,650.00 | \$ 1,320.00 |
| IP100H | IP license-free radio for wireless networks | \$ 455.00 | \$ 364.00 |
| IP501H | Portable LTE radio with SIM card installed. Monthly airtime fee will apply with activated SIM. | \$ 610.00 | \$ 488.00 |
| IP501M | Mobile LTE radio with SIM card installed. Monthly airtime fee will apply with activated SIM. | \$ 750.00 | \$ 600.00 |
| SAT100 | Satellite PTT radio using the Iridium satellite network | \$ 1,600.00 | \$ 1,280.00 |
| VEPG4 | RoIP gateway that bridges land mobile radio systems. Deactivated SIM included. Airtime fees apply when SIM activated. | \$ 3,000.00 | \$ 2,400.00 |
| MARINE | | | |
| Model | Description | Retail | HGAC Unit Price |
| GM1600 | GMDSS VHF handheld for survival crafts; radio plus BP-234 lithium battery | \$ 1,000.00 | \$ 700.00 |
| GM1600 21K | GMDSS VHF handheld for survival crafts; includes li-ion battery/charger plus the BP-234 battery. Surface shipping only. | \$ 1,090.00 | \$ 763.00 |
| GM600 | VHF GMDSS fixed mount | \$ 2,040.00 | \$ 1,428.00 |
| M25 BLUE | 5W floating marine VHF handheld in marine blue | \$ 191.00 | \$ 133.70 |
| M25 GRAY | 5W floating marine VHF handheld in metallic gray | \$ 191.00 | \$ 133.70 |
| M25 WHITE | 5W floating marine VHF handheld in pearl white | \$ 191.00 | \$ 133.70 |
| M330 11 | Black marine compact VHF fixed mount | \$ 245.00 | \$ 171.50 |
| M330 21 | White marine compact VHF fixed mount | \$ 245.00 | \$ 171.50 |
| M330G 31 | Black marine compact VHF fixed mount with built-in GPS receiver and supplied GPS antenna | \$ 328.00 | \$ 229.60 |
| M330G 41 | Super white marine compact VHF fixed mount with built-in GPS receiver and supplied GPS antenna | \$ 328.00 | \$ 229.60 |
| M37 | 6W marine VHF floating handheld with battery, charger included | \$ 277.00 | \$ 193.90 |
| M400BB | Black box marine VHF fixed mount with black Command Mic | \$ 590.00 | \$ 413.00 |
| M400BB SW | Black box marine VHF fixed mount with white Command Mic | \$ 590.00 | \$ 413.00 |
| M424G 21 | Black fixed mount | \$ 475.00 | \$ 332.50 |
| M424G 22 | Super white fixed mount | \$ 475.00 | \$ 332.50 |
| M506 01 | Class D DSC marine VHF radio | \$ 610.00 | \$ 427.00 |
| M506 11 | Class D DSC marine VHF radio with NMEA2000 | \$ 755.00 | \$ 528.50 |
| M506 21 | Class D DSC marine VHF radio with NMEA2000 and AIS receiver | \$ 925.00 | \$ 647.50 |
| M506 31 | Class D DSC marine VHF radio with rear mic and NMEA2000 | \$ 825.00 | \$ 577.50 |
| M506 41 | Class D DSC marine VHF radio with rear mic, NMEA2000 and AIS receiver | \$ 990.00 | \$ 693.00 |
| M605 11 | VHF fixed mount with color display and rear mic connector | \$ 1,225.00 | \$ 857.50 |
| M605 21 | VHF fixed mount with AIS, color display, and rear mic connector | \$ 1,530.00 | \$ 1,071.00 |
| M73 | 6W IPX8 submersible handheld | \$ 315.00 | \$ 220.50 |
| M73 PLUS | 6W IPX8 submersible handheld with built-in active noise cancelling and voice recording | \$ 390.00 | \$ 273.00 |
| M802 11 | 150W marine VHF SSB with DSC (Export/Fed government only) | \$ 3,420.00 | \$ 2,394.00 |
| M85 | Marine VHF 5W handheld; 100 land mobile programmable channels (2W) | \$ 440.00 | \$ 308.00 |
| M85UL | Marine intrinsically safe MF v.11 | \$ 610.00 | \$ 427.00 |

| Model | Description | Retail | HGAC Unit Price |
|--------------------|----------------------------------------------------------------------------------------------------|-------------|-----------------|
| M93D | 5 Watt VHF handheld with built-in GPS and Class D DSC | \$ 400.00 | \$ 280.00 |
| MR1010R2 | Marine radar, 4kW, color LCD | \$ 3,550.00 | \$ 2,485.00 |
| ACCESSORIES | | | |
| Model | Description | Retail | HGAC Unit Price |
| A200 TRAY | Mounting tray for A200/A210/A220 | \$ 65.00 | \$ 48.75 |
| AD100 | Adapter cup to install in the BC119N or BC121N for the F50/60 & M88 radios | \$ 27.00 | \$ 20.25 |
| AD101 | Adapter cup for the BC119N or BC121N for the BP210N & BP211 batteries | \$ 28.00 | \$ 21.00 |
| AD106 | Adapter cup for the BC119N/BC121N for the radios with the BP232N/H battery | \$ 28.00 | \$ 21.00 |
| AD109 | Adapter cup fits the BC119N/BC121N and charges the BP224 (M90/GM1600) | \$ 18.00 | \$ 13.50 |
| AD110 | Adapter cup to install in the BC119N or BC121N for the BP253 or BP254 batteries | \$ 28.00 | \$ 21.00 |
| AD118 | 14-pin ACC adapter to use with Hirose plug accessories | \$ 80.00 | \$ 60.00 |
| AD120 | Adapter cup that fits into the BC197 02/03 for the BP264 NiMH battery | \$ 23.00 | \$ 17.25 |
| AD121 | Adapter cup that fits into the BC197 12/13 for the BP265 Li-ion battery | \$ 23.00 | \$ 17.25 |
| AD122 | Adapter cup that fits into the BC197 22/23 for the BP232N/H batteries | \$ 23.00 | \$ 17.25 |
| AD123 02 | Adapter cup for BC119N for M24 | \$ 23.00 | \$ 17.25 |
| AD129 | Adapter cup for BC197 gang charger for M73 | \$ 27.00 | \$ 20.25 |
| AD130 | Adapter cup that fits into the BC214 for the F1000/D series | \$ 23.00 | \$ 17.25 |
| AD135 | 3.5mm earphone jack adapter that plugs into a 14-pin connector | \$ 42.00 | \$ 31.50 |
| AD55NS | 100-240V power supply for the R8600 with a US plug | \$ 75.00 | \$ 56.25 |
| AD92SMA | Antenna connector adapter to connect a BNC-type antenna | \$ 20.00 | \$ 15.00 |
| AD94 11 | Adapter cup for the BC119N or BC121N for the BP209N/BP210N batteries | \$ 28.00 | \$ 21.00 |
| AD98FSC | Antenna connector adapter for "J" to "BNC" conversion | \$ 22.00 | \$ 16.50 |
| AH2B | Antenna element/base | \$ 599.00 | \$ 449.25 |
| AH4 | Automatic antenna tuner (long wire/AH2B) | \$ 430.00 | \$ 322.50 |
| AH40 | Antenna (4.9ft) for in-vehicle and in-building use | \$ 245.00 | \$ 183.75 |
| AH710 | Folded dipole antenna with an SO-239 connector. Covers 1.9 to 30MHz band. Length is approx 80.3ft. | \$ 430.00 | \$ 322.50 |
| AH740 | Relay-driven compact automatic tuning antenna 2.5MHz-29.999MHz | \$ 2,315.00 | \$ 1,736.25 |
| AH8000 | Discone antenna wideband RX TX 100-3300MHz | \$ 340.00 | \$ 255.00 |
| ANTENNA 1 | 118-940MHz 1/4 wave antenna, unity gain, field tunable | \$ 18.00 | \$ 13.50 |
| ANTENNA 2 | 144-174MHz 3dB gain mountable antenna, CHR, 59" high | \$ 43.00 | \$ 32.25 |
| ANTENNA 3 | 450-470MHz 5dB gain mountable antenna, CHR, 40" high | \$ 55.00 | \$ 41.25 |
| ANTENNA 4 | 152-162MHz, unity gain antenna, NMO compatible, 21.6" high. Factory tuned to 157MHz | \$ 20.00 | \$ 15.00 |
| AT130 | Auto antenna tuner M710/IC-78 | \$ 690.00 | \$ 517.50 |
| AT140 | HF automatic antenna tuner | \$ 710.00 | \$ 532.50 |
| AT141 | Export HC automatic antenna tuner - special order | \$ 775.00 | \$ 581.25 |
| AW F70 AREA 51 | Water repellant case with a swivel belt clip for the F70/80 | \$ 35.00 | \$ 26.25 |
| AW STUD/SWIVEL KIT | Metal stud that slides on like a belt clip and it's attached to a strong metal swivel belt clip | \$ 21.00 | \$ 15.75 |
| AW SWIVEL | Swivel clip used with the AW Stud/Swivel Kit. | \$ 13.00 | \$ 9.75 |
| B ANT | Base station antenna 118.8-126.8MHz with 50' cable for Avionic mobile units. | \$ 365.00 | \$ 273.75 |
| BC119N 02 | Rapid charger requiring radio specific adapter cup; 100-240V w/Euro style plug | \$ 76.00 | \$ 57.00 |
| BC119NS 11 | Rapid charger with AD110 installed for F70/80/9011/9021 radios; 100-240V with US style plug | \$ 95.00 | \$ 71.25 |
| BC121NS | 6-Unit Charger Kit BC121N + AD110 x 6. Requires BC157S AC adapter. | \$ 470.00 | \$ 352.50 |
| BC123SA | AC adapter for rapid chargers; 100-240V with US style plug | \$ 25.00 | \$ 18.75 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$ 26.00 | \$ 19.50 |
| BC145SA 31 | AC adapter for BC119N; 100-240V with US style plug | \$ 25.00 | \$ 18.75 |
| BC146 01 | Drop-in trickle charger base for the F11/21/3G/4G/30G/40G series. Requires BC147 AC adapter. | \$ 32.00 | \$ 24.00 |
| BC147SA | AC adapter for trickle chargers; 100-240V with a US style plug | \$ 15.00 | \$ 11.25 |
| BC147SE 15 | AC adapter for trickle chargers; 230V with a Euro style plug | \$ 16.00 | \$ 12.00 |
| BC152N 11 | F50/F60/M88 desktop trickle charger (requires BC-147) | \$ 42.00 | \$ 31.50 |

| Model | Description | Retail | HGAC Unit Price |
|------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------|
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$ 150.00 | \$ 112.50 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$ 130.00 | \$ 97.50 |
| BC158 01 | Desktop trickle charger (GM1600 & M90 with BP224) | \$ 18.00 | \$ 13.50 |
| BC160 | Rapid charger for radios with the BP230/231/232 battery; 100-240V with a US style plug | \$ 70.00 | \$ 52.50 |
| BC160E | Rapid charger for radios with the BP230/231/232 battery; 100-240V with a Euro style plug | \$ 70.00 | \$ 52.50 |
| BC162 01 | Rapid charger for M34/M36. Includes BC123SA with US plug. | \$ 60.00 | \$ 45.00 |
| BC167SA | Wall trickle charger; 100-240V with US style plug | \$ 35.00 | \$ 26.25 |
| BC167SD | Wall trickle charger; 100-240V with Euro style plug | \$ 40.00 | \$ 30.00 |
| BC173 01 | Desktop trickle charger (M34/M36/GM1600/BP224) requires BC-147S | \$ 28.00 | \$ 21.00 |
| BC190 01 | Sensing rapid charger for F50/60 radios; 100-240V with a US style plug | \$ 80.00 | \$ 60.00 |
| BC190 02 | Sensing rapid charger for F50/60 radios; 100-240V with a Euro style plug | \$ 85.00 | \$ 63.75 |
| BC192 12 | 110V trickle charger for the NiMH BP264 (not CEC compatible for AM radios) | \$ 36.00 | \$ 27.00 |
| BC193 | Rapid charger for radios with BP265 Li-ion battery; 100-240V with US style plug | \$ 67.00 | \$ 50.25 |
| BC193E | Rapid charger for radios with BP265 Li-ion battery; 100-240V with Euro style plug | \$ 67.00 | \$ 50.25 |
| BC197 02 | Six unit charger for radios with the BP264 NiMH battery (includes AC adapter and cups installed); 100-240V with US style plug | \$ 510.00 | \$ 382.50 |
| BC197 03 | Six unit charger for radios with the BP264 NiMH battery (includes AC adapter and cups installed); 100-240V with Euro style plug | \$ 510.00 | \$ 382.50 |
| BC197 12 | 110-240V six unit charger for radios with the BP265 Li-Ion battery (includes AC adapter with US plug and cups installed) | \$ 510.00 | \$ 382.50 |
| BC197 13 | 220V six unit charger for radios with the BP265 Li-Ion battery (includes AC adapter and cups installed) | \$ 510.00 | \$ 382.50 |
| BC197 22 | Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with US style plug | \$ 510.00 | \$ 382.50 |
| BC197 23 | Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with Euro style plug | \$ 510.00 | \$ 382.50 |
| BC197 32 | Six unit charger for radios with the BP245N Li-Ion battery (includes AC adapter and cups installed); 100-240V with US style plug | \$ 515.00 | \$ 386.25 |
| BC197 37 | 6-Unit Charger Kit BC197 + BC157S + AD128 x 6 for F50/F60/M88 | \$ 580.00 | \$ 435.00 |
| BC199SE 13 | Wall charger for the M24; 100-240V with a Euro style plug | \$ 15.00 | \$ 11.25 |
| BC202IP2 | Rapid charger (includes BC-123SA AC adapter with US plug) | \$ 70.00 | \$ 52.50 |
| BC207S | 12V / 3.5A AC adapter for VEPG3/IP1000C | \$ 85.00 | \$ 63.75 |
| BC210 | Rapid charger for the BP-245N includes AC adapter with US plug | \$ 80.00 | \$ 60.00 |
| BC211 | Rapid rate 6-unit charger - IP100H | \$ 510.00 | \$ 382.50 |
| BC211E | Rapid rate 6-unit charger 230V European plug - IP100H | \$ 510.00 | \$ 382.50 |
| BC212EX | Rapid charger (includes BC213SA) for F3201DEX/4201DEX | \$ 130.00 | \$ 97.50 |
| BC213 | Rapid charger with a US plug for radios with the BP279/BP280 battery (BC-123SA or BC242 included) | \$ 60.00 | \$ 45.00 |
| BC213NAC | Rapid charger cup for radios with the BP279 battery (BC-123S not included) | \$ 35.00 | \$ 26.25 |
| BC214 | Six bank charger with US plug AC adapter and cups installed | \$ 495.00 | \$ 371.25 |
| BC214 14 | Gang charger for the M93D. Includes the BC157. | \$ 515.00 | \$ 386.25 |
| BC214-1 | Six gang charger (includes AC adapter with US plug) | \$ 510.00 | \$ 382.50 |
| BC214-1E | Six gang charger (includes AC adapter with Euro plug) | \$ 510.00 | \$ 382.50 |
| BC214E | Six unit charger for BP279/BP280 radios (includes AC adapter with Euro plug and cups installed) | \$ 495.00 | \$ 371.25 |
| BC214NSAT | Six unit charger for SAT100 | \$ 450.00 | \$ 337.50 |
| BC217SA | USB charger; 100-240V with a US style plug | \$ 22.00 | \$ 16.50 |
| BC218 | Car charger with bluetooth (requires CP22 or CP23L) | \$ 210.00 | \$ 157.50 |
| BC218 CCK | Car charger kit includes 1 each: BC218, CP23L, MBA7, MBF1, HM215 & SP35 | \$ 490.00 | \$ 367.50 |
| BC219E | Rapid charger for radios with the BP283/BP28/BP290/BP294 batteries; 100-240V with a Euro style plug | \$ 70.00 | \$ 52.50 |
| BC219N | Rapid charger for F52D/F62D; 100-240V with a US style plug | \$ 70.00 | \$ 52.50 |
| BC220 | Rapid charger for the M93D | \$ 65.00 | \$ 48.75 |
| BC223 | Rapid charger for R30; 100-240V with a US style plug | \$ 70.00 | \$ 52.50 |
| BC224 | Rapid charger with BC123SA | \$ 65.00 | \$ 48.75 |

| Model | Description | Retail | HGAC Unit Price |
|---------|------------------------------------------------------------------------------------------------------|-----------|-----------------|
| BC224E | Rapid charger with BC123SE (Euro plug) | \$ 65.00 | \$ 48.75 |
| BC225 | Smart rapid charger; 100-240V with a US style plug | \$ 135.00 | \$ 101.25 |
| BC226 | Connectable rapid charger (connect up to 6) and requires the BC228 AC adapter | \$ 75.00 | \$ 56.25 |
| BC227 | Rapid charger that goes into trickle mode at a 80% charge (US Plug) | \$ 67.00 | \$ 50.25 |
| BC228 | AC adapter for BC226 | \$ 70.00 | \$ 52.50 |
| BC235 | Desktop trickle charger (requires BC217SA) | \$ 21.00 | \$ 15.75 |
| BC241 | Rapid charger with multi-plug AC adapter for SAT100 | \$ 70.00 | \$ 52.50 |
| BC247 | Charger cradle for SAT100 for in-vehicle and in-building use | \$ 415.00 | \$ 311.25 |
| BP208N | Battery case that holds 6 AA alkaline batteries. | \$ 22.00 | \$ 16.50 |
| BP210N | NiMH 7.2V 1650mAh battery | \$ 95.00 | \$ 71.25 |
| BP224 | 7.2V 750mAh NiCd battery - GM1600/M32/M2A/M90 | \$ 63.00 | \$ 47.25 |
| BP226 | Battery case holds 5 AA alkaline batteries for the F50/F60 & M88 | \$ 50.00 | \$ 37.50 |
| BP227 | Li-ion 7.2V 1950mAh (typical capacity), 1850mAh (minimum value); waterproof | \$ 130.00 | \$ 97.50 |
| BP232H | Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value) | \$ 75.00 | \$ 56.25 |
| BP232UL | Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value) for the nonincendive approved radios | \$ 175.00 | \$ 131.25 |
| BP232WP | Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value) IP67 waterproof battery | \$ 75.00 | \$ 56.25 |
| BP234 | 9.0V 3300mAh lithium battery pack GM1600. FedEx ground shipping only. No shipments to HI or AK. | \$ 250.00 | \$ 187.50 |
| BP237 | Battery case that holds 6 AA alkaline batteries | \$ 39.00 | \$ 29.25 |
| BP240 | Battery case that holds 6 AAA alkaline batteries (1W output power) | \$ 35.00 | \$ 26.25 |
| BP245H | 7.4V 2000mAh Li-Ion battery for M72/M73 | \$ 115.00 | \$ 86.25 |
| BP251 | Alkaline case for M34/M36 (5 x AAA) | \$ 38.00 | \$ 28.50 |
| BP252 | 7.4V 980mAh Li-Ion battery (M36/M34/GM1600) | \$ 72.00 | \$ 54.00 |
| BP253 | Li-ion 7.2V 1650mAh (typical capacity), 1570mAh (minimum value) | \$ 110.00 | \$ 82.50 |
| BP254 | Li-ion 7.2V 3040mAh (typical capacity), 2900mAh (minimum value) for P25 portables | \$ 155.00 | \$ 116.25 |
| BP261 | Battery case that holds 6 AA alkaline batteries | \$ 73.00 | \$ 54.75 |
| BP263 | Battery case that holds 6 AA alkaline batteries | \$ 30.00 | \$ 22.50 |
| BP264 | Ni-MH 7.2V 1400mAh | \$ 47.00 | \$ 35.25 |
| BP265 | Li-ion 7.4V 1900mAh | \$ 62.00 | \$ 46.50 |
| BP266 | Li-ion 1500mAh battery for the M24 | \$ 60.00 | \$ 45.00 |
| BP271 | Li-ion 7.4V 1200mAh (typical capacity), 1150mAh (minimum value) | \$ 99.00 | \$ 74.25 |
| BP272 | Li-ion 7.4V 2000mAh (typical capacity), 1880mAh (minimum value) | \$ 139.00 | \$ 104.25 |
| BP273 | Battery case that holds 3 AA alkaline batteries | \$ 68.00 | \$ 51.00 |
| BP275 | 7.4V 1500mAh Li-ion battery for M92D | \$ 110.00 | \$ 82.50 |
| BP277EX | Li-ion 7.4V 1900mAh (typical capacity), 1800mAh (minimum value) blue battery | \$ 400.00 | \$ 300.00 |
| BP279 | Li-ion 7.2V 1485mAh battery | \$ 70.00 | \$ 52.50 |
| BP280 | Li-ion 7.2V 2280mAh battery | \$ 85.00 | \$ 63.75 |
| BP282 | 1500mAh Li-ion battery for the M25 | \$ 50.00 | \$ 37.50 |
| BP283 | Li-ion 7.4V 2010mAh (typical capacity), 1910mAh (minimum value) | \$ 115.00 | \$ 86.25 |
| BP284 | Li-ion 7.4V 3210mAh (typical capacity), 3070mAh (minimum value) | \$ 175.00 | \$ 131.25 |
| BP285 | Li-ion 7.2V 1570mAh (typical), 1485mAh (minimum) battery for M93D | \$ 110.00 | \$ 82.50 |
| BP287 | 2800mAh li-ion 7.2V battery | \$ 150.00 | \$ 112.50 |
| BP288 | 2350mAh li-ion 7.2V battery; IP57 | \$ 145.00 | \$ 108.75 |
| BP289 | Battery case 6 x AA; IP54 | \$ 50.00 | \$ 37.50 |
| BP290 | 2010mAh li-ion battery | \$ 105.00 | \$ 78.75 |
| BP291 | Battery case 5 x AA | \$ 50.00 | \$ 37.50 |
| BP292IS | 2010mAh li-ion intrinsically safe battery | \$ 225.00 | \$ 168.75 |
| BP293 | Battery case 6 x AA | \$ 60.00 | \$ 45.00 |
| BP294 | 3150mAh li-ion battery for the F52D/F62D/M85 | \$ 165.00 | \$ 123.75 |
| BP296 | 3.6V 2350mAh Li-Ion battery (M37) | \$ 75.00 | \$ 56.25 |
| BP297 | Alkaline case for M37 (3 x AAA) | \$ 30.00 | \$ 22.50 |
| BP298 | 2250mAh Li-ion battery for the V86 | \$ 70.00 | \$ 52.50 |
| BP299 | 3150mAh li-ion battery for the V86 | \$ 90.00 | \$ 67.50 |
| BP300 | 7.2V 2350mAh li-ion battery for the SAT100 | \$ 150.00 | \$ 112.50 |

| Model | Description | Retail | HGAC Unit Price |
|---------------------|---------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|
| CEN EXD 400 SMI | 400-420MHz stubby antenna for the F60/V portable radios | \$ 14.50 | \$ 10.88 |
| CEN EXD 450 SMI | 450-470MHz stubby antenna for F60/V portable radios | \$ 20.00 | \$ 15.00 |
| CEN EXS 150 SMI | 150-160MHz stubby antenna for F50/V & M88 handheld radios | \$ 16.00 | \$ 12.00 |
| CFR5000 02 | Multi-site (conventional only) IP repeater link card (requires UC-FR5000 board) | \$ 65.00 | \$ 48.75 |
| CFR5000MT | Multi-site (conventional & trunking) IP repeater link card (requires UC-FR5000 board) | \$ 1,375.00 | \$ 1,031.25 |
| CFUF8100 | Cooling fan unit | \$ 440.00 | \$ 330.00 |
| CP12L | Cigarette lighter cable with noise filter and right angle connector | \$ 43.00 | \$ 32.25 |
| CP20 | Cigarette lighter cable with noise filter and DC-DC converter. Charges the BC167 with a 12V/24V cigarette lighter socket. | \$ 61.00 | \$ 45.75 |
| CP22 | Cigarette lighter cable with DC-DC converter for use with the BC179 for the A14/S. 12-24V DC input available. | \$ 69.00 | \$ 51.75 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$ 38.00 | \$ 28.50 |
| CP24 | Cigarette lighter cable that charges the charger in a vehicle | \$ 28.00 | \$ 21.00 |
| CP25H | Cigarette lighter cable to use with BC-210 rapid charger | \$ 27.00 | \$ 20.25 |
| CR338 | TCXO, high stability crystal Unit, ± 0.5 ppm (-10°C to +50°C) IC-707/718/77/78/746/746PRO/7400 | \$ 105.00 | \$ 78.75 |
| CS2300H | Cloning software for 2300H | \$ 85.00 | \$ 63.75 |
| CS7100 | Programming software for 7100 | \$ 50.00 | \$ 37.50 |
| CS9100 | Cloning software for 9100 | \$ 60.00 | \$ 45.00 |
| CSA120 | Programming software A120 | \$ 90.00 | \$ 67.50 |
| CSA14 | Programming software for the A14/A14S | \$ 77.00 | \$ 57.75 |
| CSA220 | Programming software A220 | \$ 90.00 | \$ 67.50 |
| CSA24 | A24 Cloning Software | \$ 65.00 | \$ 48.75 |
| CSA25 | A25 programming software | \$ 85.00 | \$ 63.75 |
| CSF2000 | Programming software for the F1000/2000 series | \$ 72.00 | \$ 54.00 |
| CSF2000D | Programming software for the F1000D/2000D | \$ 72.00 | \$ 54.00 |
| CSF2100D | Programming software for the F1100D/2100D | \$ 75.00 | \$ 56.25 |
| CSF3001 | F3001/F4001 programming software | \$ 72.00 | \$ 54.00 |
| CSF3011 | F3011/4011 software | \$ 75.00 | \$ 56.25 |
| CSF3021/F5021/F5011 | F3021/5021/5011 series programming software | \$ 72.00 | \$ 54.00 |
| CSF3101D/F5121D | F3101D/F5121D series programming software | \$ 72.00 | \$ 54.00 |
| CSF3161/F5061 | Software to program the F3161/4161 & F5061/6061 radios | \$ 72.00 | \$ 54.00 |
| CSF3210D | Programming software for F3210D/4210D, F3230D/4230D & F5220D/6220D | \$ 72.00 | \$ 54.00 |
| CSF3360D/F5360D | Programming software for the F3360D & F5360D series | \$ 90.00 | \$ 67.50 |
| CSF3400D | Programming software for the F3400D/F5400D series | \$ 80.00 | \$ 60.00 |
| CSF5122DD | F5122DD/6122DD programming software | \$ 80.00 | \$ 60.00 |
| CSF52D | F52D/F62D programming software | \$ 100.00 | \$ 75.00 |
| CSF70/F1700 | Cloning Software F70/F80/F1721/F1821/F2721/F282 | \$ 72.00 | \$ 54.00 |
| CSF7510 | Programming software for the F7010 & F7510 P25 radios | \$ 100.00 | \$ 75.00 |
| CSF8101 | Programming software. Use a generic USB "A" to "B" cable to program radio. | \$ 80.00 | \$ 60.00 |
| CSF9010/F9510 | F9011/9511 programming software | \$ 72.00 | \$ 54.00 |
| CSFR5000 | FR5000/6000 programming software | \$ 72.00 | \$ 54.00 |
| CSFR9010 | Programming software for the FR9010/9020 | \$ 72.00 | \$ 54.00 |
| CSGM1600 | GM1600 programming software | \$ 65.00 | \$ 48.75 |
| CSIP501H | IP501H programming software | \$ 60.00 | \$ 45.00 |
| CSKLD2 | Encryption key loader software for F3400/F5400 series | \$ 600.00 | \$ 450.00 |
| CSM25 | M25 programming software (requires OPC478UC+OPC1655) | \$ 95.00 | \$ 71.25 |
| CSM330 | M330 programming software | \$ 100.00 | \$ 75.00 |
| CSM36 | M36 Programming Software | \$ 79.00 | \$ 59.25 |
| CSM400BB | M400BB programming software. Requires OPC-478UC + OPC-980 cables. | \$ 125.00 | \$ 93.75 |
| CSM605 | Programming software for the M605. Includes MMSI reset dongle. Requires OPC2382 + OPC478UC for programming. | \$ 100.00 | \$ 75.00 |
| CSM72 | M72 Programming Software | \$ 65.00 | \$ 48.75 |
| CSM73 | Programming software for the M73 | \$ 95.00 | \$ 71.25 |
| CSM802 | M802 Program Software | \$ 79.00 | \$ 59.25 |

| Model | Description | Retail | HGAC Unit Price |
|-----------------------|---------------------------------------------------------------------------------------|-------------|-----------------|
| CSM85 | M85 programming software | \$ 100.00 | \$ 75.00 |
| CSM92D/M424 | Programming software for M92D & M424 | \$ 90.00 | \$ 67.50 |
| CSOTPM1 | Over-the-air programming (OTAP) manager software | \$ 520.00 | \$ 390.00 |
| CSOTPM2 | P25 over-the-air programming (OTAP) manager software; support only conventional mode | \$ 800.00 | \$ 600.00 |
| CSR30 | Programming software for R30 | \$ 95.00 | \$ 71.25 |
| CSR6 | Programming software fo R6 | \$ 58.00 | \$ 43.50 |
| CSR8600 | R8600 programming software | \$ 95.00 | \$ 71.25 |
| CSRMK4 | Programming software for the RMK4 | \$ 80.00 | \$ 60.00 |
| CT23 01 | PTT microphone adapter to use SM-26 or HM-152 with a PC. Requires BC-1475. | \$ 120.00 | \$ 90.00 |
| CT24 | Digital voice converter (supplied with RCFS10 and works with VEPG3) | \$ 1,200.00 | \$ 900.00 |
| EH15B | Earphone with 2.5mm plug to use with HM-163MC | \$ 30.00 | \$ 22.50 |
| EM80 | 9-pin full size speaker mic for F30G series. IS approved to work with F30G IS radios. | \$ 15.00 | \$ 11.25 |
| EX2785J01 | P25 activation software for F70/80 & F1721/2721 radios | \$ 680.00 | \$ 510.00 |
| EX2785J03 | AES activation upgrade | \$ 656.00 | \$ 492.00 |
| F5061 IGN SENSE CABLE | 96" cable with 3A fuse | \$ 15.00 | \$ 11.25 |
| FAB02AR | Standard antenna for Aviation handheld radios | \$ 37.00 | \$ 27.75 |
| FAB04RE | Wideband RX antenna (BNC) | \$ 32.00 | \$ 24.00 |
| FAB2E | 136-174MHz antenna (BNC) | \$ 35.00 | \$ 26.25 |
| FAS100U | 7/800MHz antenna | \$ 20.00 | \$ 15.00 |
| FAS102U | Antenna for SAT100 | \$ 210.00 | \$ 157.50 |
| FAS24V | 136-150MHz antenna for the F50/V handhelds (Blue ring) | \$ 12.50 | \$ 9.38 |
| FAS270C | Wideband RX antenna (SMA) | \$ 35.00 | \$ 26.25 |
| FAS27U | 400-470MHz antenna for the F60/V (green ring) | \$ 13.00 | \$ 9.75 |
| FAS56U | 450-520MHz antenna for F60/V (red ring) | \$ 13.00 | \$ 9.75 |
| FAS57US | 450-490MHz stubby antenna for F60/V portable radios (red ring) | \$ 17.00 | \$ 12.75 |
| FAS58U | 400-470MHz antenna - standard on the F9021 | \$ 17.00 | \$ 12.75 |
| FAS59V | 150-174MHz standard antenna for the F50 & M88 (red ring) | \$ 15.00 | \$ 11.25 |
| FAS61V | Standard antenna for GM1600 | \$ 17.00 | \$ 12.75 |
| FAS62VS | 150-162MHz stubby antenna for F50/V (Red ring) | \$ 17.00 | \$ 12.75 |
| FAS63VS | 160-174MHz stubby antenna for F50/V (green ring) | \$ 16.00 | \$ 12.00 |
| FAS64V | Standard antenna for the M72/M73 (4 17/32" or 115mm) | \$ 17.00 | \$ 12.75 |
| FAS65V | 148-160 MHz flexible antenna - standard on F9011 | \$ 17.00 | \$ 12.75 |
| FAS67VC | 136-174MHz cut antenna - F3400/F7010/F9011 | \$ 30.00 | \$ 22.50 |
| FAS74U | 490-520MHz antenna for F60/V (blue ring) | \$ 12.50 | \$ 9.38 |
| FAS76UC | 380-520MHz cut antenna for F4400/F9021 | \$ 30.00 | \$ 22.50 |
| FAS81U | 380-430MHz antenna for F4400 | \$ 17.00 | \$ 12.75 |
| FAS81US | 400-450MHz stubby antenna for F4400 | \$ 17.00 | \$ 12.75 |
| FAS81V | 136-150MHz antenna for F3400/F7010/F9011 | \$ 20.00 | \$ 15.00 |
| FAS81VS | 136-150MHz stubby antenna for F3400 | \$ 19.00 | \$ 14.25 |
| FAS82U | 430-480MHz antenna for F4400 | \$ 17.00 | \$ 12.75 |
| FAS82US | 450-490MHz stubby antenna for F4400 | \$ 17.00 | \$ 12.75 |
| FAS82V | 148-162MHz antenna | \$ 20.00 | \$ 15.00 |
| FAS82VS | 148-162MHz stubby antenna | \$ 19.00 | \$ 14.25 |
| FAS83U | 470-520MHz antenna for F4400 | \$ 17.00 | \$ 12.75 |
| FAS83V | 160-174MHz antenna for F3400 | \$ 20.00 | \$ 15.00 |
| FAS83VS | 160-174MHz stubby antenna for F3400 | \$ 19.00 | \$ 14.25 |
| FASC25U | 400-430MHz antenna for LM portables | \$ 13.00 | \$ 9.75 |
| FASC25V | 136-150MHz antenna for LM portables | \$ 13.00 | \$ 9.75 |
| FASC26US | 400-450MHz stubby antenna for LM portables | \$ 14.50 | \$ 10.88 |
| FASC26VS | 136-144MHz stubby antenna for LM portables | \$ 14.50 | \$ 10.88 |
| FASC27VS | 142-150MHz stubby antenna for LM portables | \$ 14.50 | \$ 10.88 |
| FASC28V | 142-162MHz antenna for LM portables | \$ 13.00 | \$ 9.75 |
| FASC29V | 160-174MHz antenna for LM portables | \$ 13.00 | \$ 9.75 |
| FASC55V | 146-174MHz standard antenna for LM portables | \$ 13.00 | \$ 9.75 |
| FASC56VS | 150-160MHz stubby antenna for LM portables | \$ 14.50 | \$ 10.88 |

| Model | Description | Retail | HGAC Unit Price |
|------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------|
| FASC57U | 430-470MHz standard antenna for LM radios (red ring) | \$ 13.00 | \$ 9.75 |
| FASC57VS | 160-174MHz stubby antenna for LM portables | \$ 14.50 | \$ 10.88 |
| FASC58V | Standard antenna M24/M34/M36/M85 | \$ 16.00 | \$ 12.00 |
| FASC59V | Standard antenna M25/M37/M93D/M92D | \$ 21.00 | \$ 15.75 |
| FASC61UC | 380-520MHz cut antenna for the specific frequency desired | \$ 19.00 | \$ 14.25 |
| FASC61VC | 136-174MHz cut antenna for the specific frequency desired | \$ 19.00 | \$ 14.25 |
| FASC62V | 150-160MHz high gain antenna for LM portables (10") | \$ 55.00 | \$ 41.25 |
| FASC63V | 155-165MHz high gain antenna for LM portables (9.5") | \$ 55.00 | \$ 41.25 |
| FASC72U | 470-512MHz antenna for LM portables | \$ 13.00 | \$ 9.75 |
| FASC73US | 450-470MHz stubby antenna for LM portable radios | \$ 14.50 | \$ 10.88 |
| FL430 | 6kHz 1st IF filter for better receiver performance (7410/9100) | \$ 125.00 | \$ 93.75 |
| FL431 | 3kHz 1st IF filter for better receiver performance (7410/9100) | \$ 125.00 | \$ 93.75 |
| GAL 06026 | 136-174MHz short helical broadband antenna for F9011 | \$ 100.00 | \$ 75.00 |
| HM126B | Standard black front mount mic for M504 | \$ 83.00 | \$ 62.25 |
| HM126RB | Standard black rear mount mic for M504/M604 | \$ 100.00 | \$ 75.00 |
| HM128L | Earphone/mic with 2-pin right angle connector | \$ 28.50 | \$ 21.38 |
| HM131 | Speaker/microphone with earphone jack and clip (straight 2-pin, both stereo plug) | \$ 45.00 | \$ 33.75 |
| HM131SC | Lightweight speaker microphone with earphone jack (9-pin) | \$ 79.00 | \$ 59.25 |
| HM133V | Standard partial function remote microphone (squellch only) 2300H/V8000 | \$ 106.00 | \$ 79.50 |
| HM135 | Hand microphone; water resistant, remote function for M802 | \$ 91.00 | \$ 68.25 |
| HM138 | Waterproof 9-pin marine style speaker mic (IS approved for F50/F60/M88/F70/F80) | \$ 130.00 | \$ 97.50 |
| HM148G | Self grounding microphone for mobile radios | \$ 67.00 | \$ 50.25 |
| HM148T | DMTF mobile microphone | \$ 110.00 | \$ 82.50 |
| HM151 | Remote control microphone (7000/7100) | \$ 145.00 | \$ 108.75 |
| HM152 | Standard microphone for low/mid range mobile radios | \$ 44.00 | \$ 33.00 |
| HM152T | DTMF modular microphone for LM mobile radios | \$ 90.00 | \$ 67.50 |
| HM153LA | Covert durable microphone with earphone combination (right angle 2-pin screw down connector) | \$ 125.00 | \$ 93.75 |
| HM153LS | Covert durable microphone with earphone combination (right angle 2-pin connector) | \$ 130.00 | \$ 97.50 |
| HM154 | Simple microphone for Amateur mobile radios (RJ45) | \$ 55.00 | \$ 41.25 |
| HM154T | Basic DMTF microphone (RJ45 connector) all Amateur models | \$ 90.00 | \$ 67.50 |
| HM158LA | Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker) | \$ 47.00 | \$ 35.25 |
| HM159LA | Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker) | \$ 77.00 | \$ 57.75 |
| HM159SC LG | Large speaker microphone with earphone jack and metal alligator clip (9-pin, stereo mic/mono speaker) | \$ 92.00 | \$ 69.00 |
| HM163MC | Lapel mic with 2.5mm earphone jack | \$ 200.00 | \$ 150.00 |
| HM164B | Standard black hand mic M200/M304/M412 | \$ 44.00 | \$ 33.00 |
| HM165 | Waterproof speaker mic for M34/M36/M93D | \$ 110.00 | \$ 82.50 |
| HM166LA | Earphone microphone with 2-pin right angle connector | \$ 53.00 | \$ 39.75 |
| HM166LS | Earphone microphone with two pin right angle connector | \$ 99.00 | \$ 74.25 |
| HM167 | Lightweight IPX8 waterproof speaker mic M73/GM1600/M92/M72 | \$ 120.00 | \$ 90.00 |
| HM168LWP | Waterproof speaker microphone | \$ 140.00 | \$ 105.00 |
| HM169 | Waterproof speaker mic (9-pin) | \$ 105.00 | \$ 78.75 |
| HM169 IS | Intrinsically safe waterproof speaker mic (9-pin) | \$ 145.00 | \$ 108.75 |
| HM171GP | GPS speaker microphone for F3101D/4101D series | \$ 360.00 | \$ 270.00 |
| HM176 | Microphone for the A220/A210/A200/PS80 | \$ 185.00 | \$ 138.75 |
| HM180 | Microphone for M710/M700PRO | \$ 106.00 | \$ 79.50 |
| HM183LS | Waterproof compact speaker microphone (2pin connector) | \$ 120.00 | \$ 90.00 |
| HM184H | 14-pin loud waterproof speaker mic (no accessory jack) | \$ 118.00 | \$ 88.50 |
| HM184IS | 14-pin intrinsically safe approved waterproof speaker mic (no accessory jack) | \$ 150.00 | \$ 112.50 |
| HM186LS | Compact speaker microphone with earphone jack (2 pin connector) | \$ 65.00 | \$ 48.75 |
| HM192 | Remote control microphone for F8101 (requires separation cable) | \$ 640.00 | \$ 480.00 |
| HM193 | Hand microphone for the F8101 | \$ 85.00 | \$ 63.75 |

| Model | Description | Retail | HGAC Unit Price |
|------------|-------------------------------------------------------------------------------------------------------------------|-------------|-----------------|
| HM195B | CommandMic IV with yellow backlit LCD in black | \$ 203.00 | \$ 152.25 |
| HM195GB | CommandMic IV with white backlit LCD in black | \$ 203.00 | \$ 152.25 |
| HM195GW | CommandMic IV with white backlit LCD in super white | \$ 203.00 | \$ 152.25 |
| HM195SW | Command Mic IV with yellow backlit LCD in super white | \$ 203.00 | \$ 152.25 |
| HM196B | Standard hand microphone for M424 and works with the M424G | \$ 85.00 | \$ 63.75 |
| HM196SW | Standard hand microphone for M424 and works with the M424G | \$ 85.00 | \$ 63.75 |
| HM198 | Hand microphone for 7100 | \$ 55.00 | \$ 41.25 |
| HM202 | Compact IPX7 waterproof speaker mic M73/M72 | \$ 130.00 | \$ 97.50 |
| HM203EX | Blue speaker microphone for F3201DEX/4201DEX | \$ 210.00 | \$ 157.50 |
| HM205B | Speaker microphone M424G/M506 | \$ 85.00 | \$ 63.75 |
| HM205RB | Speaker microphone for M506 rear connector & M605 | \$ 115.00 | \$ 86.25 |
| HM207 | Control hand microphone (ID-5100) | \$ 99.00 | \$ 74.25 |
| HM207S | DTMF standard mic ID4100 | \$ 140.00 | \$ 105.00 |
| HM211 | Noise cancelling mobile hand microphone | \$ 145.00 | \$ 108.75 |
| HM213 | Waterproof floating speaker mic for M25 | \$ 120.00 | \$ 90.00 |
| HM214H | Hand microphone for GM800 & M803 | \$ 95.00 | \$ 71.25 |
| HM215 | Speaker microphone for the BC-218 car charger | \$ 165.00 | \$ 123.75 |
| HM216 | Standard microphone for A120 | \$ 47.00 | \$ 35.25 |
| HM217 | Microphone with built-in speaker and front panel includes up/down buttons and two programmable buttons (P1/P2) | \$ 100.00 | \$ 75.00 |
| HM218 | Secondary remote control microphone, COMMANDMIC, for the F5400D/F6400D. Requires RMK5 + OPC2373 or OPC2374. | \$ 500.00 | \$ 375.00 |
| HM219 | Hand microphone 7300/7610 | \$ 55.00 | \$ 41.25 |
| HM220 | Heavy duty microphone (IP54) for the F5400 series | \$ 100.00 | \$ 75.00 |
| HM220T | Heavy duty microphone with DTMF keypad (IP54) for the F5400 series | \$ 160.00 | \$ 120.00 |
| HM221 | Microphone (IP55) for the F5400 series | \$ 100.00 | \$ 75.00 |
| HM221T | Microphone with DTMF keypad (IP55) for the F5400 series | \$ 160.00 | \$ 120.00 |
| HM222 | IP68 waterproof speaker microphone w/3.5mm accessory jack (14-pin connector) | \$ 145.00 | \$ 108.75 |
| HM228 | Compact IPX7 speaker mic for M93D | \$ 98.00 | \$ 73.50 |
| HM230HB | CommandMic with 10-key (IP55) for IP501M | \$ 330.00 | \$ 247.50 |
| HM231 | Waterproof speaker microphone (A25) | \$ 90.00 | \$ 67.50 |
| HM232 | Hand microphone for ID4100 | \$ 45.00 | \$ 33.75 |
| HM233GP | GPS microphone IP67 | \$ 285.00 | \$ 213.75 |
| HM234 | Aviation speaker mic (2-pin right angle connector) | \$ 105.00 | \$ 78.75 |
| HM235B | Black microphone for M330 | \$ 55.00 | \$ 41.25 |
| HM235W | White microphone for M330 | \$ 55.00 | \$ 41.25 |
| HM236 | Compact waterproof speaker microphone | \$ 125.00 | \$ 93.75 |
| HM240 | Waterproof aviation speaker mic (2-pin) | \$ 100.00 | \$ 75.00 |
| HM241 | Mobile microphone with emergency button for IP501M (IP54) | \$ 115.00 | \$ 86.25 |
| HM75LS | Remote control speaker microphone with transmit indicator and earphone jack (right angle 2-pin, both stereo plug) | \$ 99.00 | \$ 74.25 |
| HM-9000 | Speaker microphone for the FR9010/9020 repeaters | \$ 80.00 | \$ 60.00 |
| HM-HD7I6WP | Large waterproof, high gain speaker microphone with 3.5mm accessory jack (14-pin connector) | \$ 120.00 | \$ 90.00 |
| HM-HD7I7WP | Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector) | \$ 110.00 | \$ 82.50 |
| HS102 | Over the head headset with earphone. Allows for full-duplex operation and requires the OPC-2359. | \$ 200.00 | \$ 150.00 |
| HS94 | Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392 | \$ 25.00 | \$ 18.75 |
| HS94LWP | Earhook headset with boom microphone with 2-pin screw down connector for hands-free operation. | \$ 60.00 | \$ 45.00 |
| HS95 | Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392 | \$ 215.00 | \$ 161.25 |
| HS95LWP | Behind-the-head type with boom microphone with 2-pin screw down connector | \$ 290.00 | \$ 217.50 |
| HS97 | Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392 | \$ 42.00 | \$ 31.50 |
| IABC1019 | Heavy duty vehicular charger | \$ 400.00 | \$ 300.00 |
| IACS1120G | OziTracker LTE tracking software, includes 20 assets | \$ 1,325.00 | \$ 993.75 |

| Model | Description | Retail | HGAC Unit Price |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|
| IACS1121G | Each additional asset for OziTracker LTE tracking software | \$ 75.00 | \$ 56.25 |
| IACS1122G | Additional copy of OziTracker LTE software for the same project | \$ 725.00 | \$ 543.75 |
| IA-DH1095 | Remote mounting kit for the F9511/F9521 dual head kit. Dual head, external speaker, speaker microphone, and separation cables are required. | \$ 1,015.00 | \$ 761.25 |
| IAHM600 | Heavy duty Bluetooth speaker microphone with loud audio, water/dust resistant & 40+ hours of talk time (charger included) | \$ 215.00 | \$ 161.25 |
| IAOPC054 | Cable to wire the F5400/F6400 to an external speaker | \$ 30.00 | \$ 22.50 |
| IAOPC1003 | USB to micro-USB 3ft cable | \$ 12.00 | \$ 9.00 |
| IAOPC1075 | F7500 mobile adapter cable to use with Motorola KVL3000/4000/5000 keyloaders. Requires the OPC1534 cable and a RJ45 female-to-female adapter. | \$ 150.00 | \$ 112.50 |
| IAOPC1076 | F7500 mobile adapter cable to use with the KVL125 keyloader. Requires the OPC-IAKVL1 cable and a RJ45 female-to-female adapter. | \$ 200.00 | \$ 150.00 |
| IAPS12 | Power supply with cover for control station (120VAC; 12A) for low and mid power only | \$ 215.00 | \$ 161.25 |
| IAPS12E | Power supply with cover for control station (220VAC; 12A) for low and mid power only | \$ 245.00 | \$ 183.75 |
| IASPS1220 | 20A power supply 13.8VDC. Requires mount for use in rack. | \$ 200.00 | \$ 150.00 |
| IAS ANTRLY-D | 1RU dual antenna switch for FR9010/9020 | \$ 945.00 | \$ 708.75 |
| IAS ANTRLY-S | 1RU single antenna switch for FR9010/9020 | \$ 500.00 | \$ 375.00 |
| IAS BC-RHADPTR | 100-240V charger adapter for use with the IAS OPC-RHUSB | \$ 70.00 | \$ 52.50 |
| IAS BC-RHCHG1 | 100-240V single unit charger for RedHawk mic | \$ 105.00 | \$ 78.75 |
| IAS BC-RHCHG12 | 100-240V 12 unit charger for the RedHawk mics | \$ 1,000.00 | \$ 750.00 |
| IAS BP-RHBATT1 | 3.8V 1200mAh battery for RedHawk mic | \$ 45.00 | \$ 33.75 |
| IAS CP-RHLP | 12-24V cigarette lighter plug requiring 2 USB cables | \$ 60.00 | \$ 45.00 |
| IAS CROSSBAND CONTROLLER | Analog gateway that provides an easy migration path from analog to digital technology | \$ 501.00 | \$ 375.75 |
| IAS CS-RHSW | Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed. | \$ 120.00 | \$ 90.00 |
| IAS OPC-RHI14 | RedHawk 14-pin cable connects GPS mic to radio (works in analog, P25 digital and IDAS) | \$ 275.00 | \$ 206.25 |
| IAS OPC-RHI1D | RedHawk cable connects GPS mic to P25 mobile radios (works in both analog and P25 digital). May require AFO mod on radio. | \$ 225.00 | \$ 168.75 |
| IAS OPC-RHI2 | RedHawk 2-pin cable connects GPS mic to radio | \$ 93.00 | \$ 69.75 |
| IAS OPC-RHI9 | RedHawk 9-pin cable connects GPS mic to radio (works in analog only) | \$ 99.00 | \$ 74.25 |
| IAS OPC-RHUSB | USB cable to connect mic with PC or charger adapter. One comes with each microphone. | \$ 30.00 | \$ 22.50 |
| IAS REDHAWK | Speaker microphone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required. | \$ 584.00 | \$ 438.00 |
| IASANTSW1 | Single antenna switch for base station operation | \$ 580.00 | \$ 435.00 |
| IASANTSW2 | Dual antenna switch for base station operation | \$ 1,019.00 | \$ 764.25 |
| IASDP1001 | DC distribution panel 12/24VDC with remote power control and SNMP. It can manage up to 12 loads. | \$ 1,825.00 | \$ 1,368.75 |
| IASDUP1001 | 136-148 6 cavity 50W internal duplexer, 3MHz TX-RX separation | \$ 525.00 | \$ 393.75 |
| IASDUP1002 | 148-160 6 cavity 50W internal duplexer, 3MHz TX-RX separation | \$ 525.00 | \$ 393.75 |
| IASDUP1003 | 160-174 6 cavity 50W internal duplexer, 3MHz TX-RX separation | \$ 525.00 | \$ 393.75 |
| IASDUP1004 | 136-148 6 cavity 50W internal duplexer, 5MHz TX-RX separation | \$ 525.00 | \$ 393.75 |
| IASDUP1005 | 148-160 6 cavity 50W internal duplexer, 5MHz TX-RX separation | \$ 525.00 | \$ 393.75 |
| IASDUP1006 | 160-174 6 cavity 50W internal duplexer, 5MHz TX-RX separation | \$ 525.00 | \$ 393.75 |
| IASDUP1007 | 136-148 6 cavity 50W internal duplexer, 10MHz TX-RX separation | \$ 525.00 | \$ 393.75 |
| IASDUP1008 | 148-160 6 cavity 50W internal duplexer, 10MHz TX-RX separation | \$ 525.00 | \$ 393.75 |
| IASDUP1009 | 160-174 6 cavity 50W internal duplexer, 10MHz TX-RX separation | \$ 525.00 | \$ 393.75 |
| IASDUP1010 | 144-190MHz 6 cavity 100W duplexer with 3MHz minimum TX-RX separation | \$ 2,030.00 | \$ 1,522.50 |
| IASDUP1012 | 144-174MHz 6 cavity, 350W duplexer, 400kHz TX-RX separation; 32" tall | \$ 4,400.00 | \$ 3,300.00 |
| IASDUP1015 | 152-175MHz 50W internal duplexer (6-15MHz minimum separation) | \$ 510.00 | \$ 382.50 |
| IASDUP1035 | 400-512 4 cavity 100W duplexer, 3MHz TX-RX separation | \$ 1,895.00 | \$ 1,421.25 |
| IASDUP1036 | 400-440 6 cavity 50W internal duplexer, 5MHz TX-RX separation | \$ 525.00 | \$ 393.75 |

| Model | Description | Retail | HGAC Unit Price |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|
| IASDUP1037 | 440-470 6 cavity 50W internal duplexer, 5MHz TX-RX separation | \$ 525.00 | \$ 393.75 |
| IASDUP1038 | 470-490 6 cavity 50W internal duplexer, 5MHz TX-RX separation | \$ 525.00 | \$ 393.75 |
| IASDUP1039 | 490-512 6 cavity 50W internal duplexer, 5MHz TX-RX separation | \$ 525.00 | \$ 393.75 |
| IASDUP1040 | 400-440 6 cavity 50W internal duplexer, 10MHz TX-RX separation | \$ 525.00 | \$ 393.75 |
| IASDUP1041 | 440-470 6 cavity 50W internal duplexer, 10MHz TX-RX separation | \$ 525.00 | \$ 393.75 |
| IASDUP1042 | 470-490 6 cavity 50W internal duplexer, 10MHz TX-RX separation | \$ 525.00 | \$ 393.75 |
| IASDUP1043 | 490-512 6 cavity 50W internal duplexer, 10MHz TX-RX separation | \$ 525.00 | \$ 393.75 |
| IASDUP1044 | 440-512 6 cavity 100W duplexer with 3MHz minimum TX-RX separation | \$ 2,050.00 | \$ 1,537.50 |
| IASDUP50CY | CY5000/6000 internal duplexer assembly kit including RF jumpers and screws | \$ 28.61 | \$ 21.46 |
| IASDUP50FR | FR5000/6000 internal duplexer assembly kit including RF jumpers, mounting bracket and screws | \$ 100.30 | \$ 75.23 |
| IASE2CS100 | Programming software for RFT P25/analog repeaters | \$ 210.00 | \$ 157.50 |
| IASIV1300 | Site inverter 300W 12/24VDC; 1RU 19" rack mountable | \$ 675.00 | \$ 506.25 |
| IASKF7P | System Owner Master Key (SOMK); USB Dongle and CS-F7500ASK "P25 Advanced System Key (ASK) Manager Application" Note: Available only to P25 trunking system owners and requires the completion of the "P25 System Key Request Form" by the P25 Trunking System Owner | \$ 500.00 | \$ 375.00 |
| IASKF7S | Accessory Advanced System Key (AASK) USB dongle required for programming P25 trunking parameters. Note: shipped unprogrammed; requires P25 trunking system owner to program | \$ 225.00 | \$ 168.75 |
| IASMNT1005 | Internal universal accessory mounting plate - use to mount duplexers/pre-selectors into FR5000/FR6000 | \$ 36.00 | \$ 27.00 |
| IASMNT1028 | 28x19, 16U desktop 2-post rack; 350lb weight capacity | \$ 395.00 | \$ 296.25 |
| IASMNT1030 | 30" (17RU) locking indoor cabinet | \$ 1,165.00 | \$ 873.75 |
| IASMNT1042 | 42x19 welded steel 2-post rack; 24U, 1,500lb weight capacity | \$ 750.00 | \$ 562.50 |
| IASMNT1046 | 46" (26RU) locking indoor cabinet | \$ 2,280.00 | \$ 1,710.00 |
| IASMNT1060 | 60" (34RU) locking indoor cabinet | \$ 3,190.00 | \$ 2,392.50 |
| IASMNT1063 | 63x19 welded steel 2-post rack; 63U, 1,500lb weight capacity | \$ 995.00 | \$ 746.25 |
| IASMNT1070 | 70x19 welded steel 2-post rack; 40U, 1,500lb weight capacity | \$ 1,025.00 | \$ 768.75 |
| IASMNT1102 | 19" rack mount tray for 20A PS. Holds up to 2 PS, 2RU. | \$ 175.00 | \$ 131.25 |
| IASMNT1105 | Battery charger rackmount kit holds 1 to 2 chargers | \$ 165.00 | \$ 123.75 |
| IASPA510 | 144-154MHz 100W out, 2-5W in, 4RU power amplifier; 19" rack mountable | \$ 2,400.00 | \$ 1,800.00 |
| IASPA520 | 152-162MHz 100W out, 2-5W in, 4RU power amplifier; 19" rack mountable | \$ 2,400.00 | \$ 1,800.00 |
| IASPR1001 | 136-150MHz 4 cavity pre-selector (assembly kit required with FR5000) | \$ 700.00 | \$ 525.00 |
| IASPR1002 | 150-174MHz 4 cavity pre-selector (assembly kit required with FR5000) | \$ 700.00 | \$ 525.00 |
| IASPR1010 | 400-440MHz 4 cavity pre-selector (assembly kit required with FR6000) | \$ 700.00 | \$ 525.00 |
| IASPR1011 | 440-520MHz 4 cavity pre-selector (assembly kit required with FR6000) | \$ 700.00 | \$ 525.00 |
| IASPR50FR | FR5000/6000 internal pre-selector assembly kit including RF jumpers, mounting bracket and screws | \$ 145.00 | \$ 108.75 |
| IASPS1022 | 12V/30A PS/battery charger; 1RU | \$ 830.00 | \$ 622.50 |
| ICT CS120-20A/IC06 | 110V power supply & cabinet for control station use on P25 radios | \$ 250.00 | \$ 187.50 |
| ICT CS120-20AG/IC04 | 110V power supply and cabinet for control station use for F5011/5021/F5121/F5220 | \$ 250.00 | \$ 187.50 |
| ICT CS120-20AG/IC09 | 110V power supply and cabinet for control station use for F5061/6061 | \$ 250.00 | \$ 187.50 |
| ICT CS120-30A/IC08 | 110V power supply and cabinet for control station use for F9511HT | \$ 700.00 | \$ 525.00 |
| ICT IC04 220V | 220V power supply and cabinet for control station use for F5011/5021 | \$ 275.00 | \$ 206.25 |
| ICT IC06 220V | 220V power supply & cabinet for control station use on P25 radios | \$ 255.00 | \$ 191.25 |
| ICT IC09 220V | 220V power supply and cabinet for control station use for F5061/6061 | \$ 275.00 | \$ 206.25 |
| ICT ICO11 | 120V power supply and cabinet for base station use for A120 | \$ 210.00 | \$ 157.50 |
| ICT ICO11 220V | 220V power supply and cabinet for control station use for A120 | \$ 235.00 | \$ 176.25 |
| IMPACT HD3-I3 | Heavy duty speaker mic w/3.5mm accessory jack (2-pin screw down connector) | \$ 59.00 | \$ 44.25 |
| IMPACT HD3-I5 | Heavy duty use speaker mic with 3.5mm accessory jack (9-pin) | \$ 76.00 | \$ 57.00 |
| IMPACT HD3-I6 | Lightweight heavy duty use speaker mic with 3.5mm accessory jack (14-pin connector) | \$ 98.00 | \$ 73.50 |
| ISL-3 | P25 trunking upgrade for the F9011/9511 series radios | \$ 500.00 | \$ 375.00 |
| ISL-AK25K | Add 25kHz into the radio | \$ 13.00 | \$ 9.75 |
| ISL-AKAES | AES activation code for F3400/F5400 series | \$ 360.00 | \$ 270.00 |

| Model | Description | Retail | HGAC Unit Price |
|-----------------------|----------------------------------------------------------------------------------------------------------------|-------------|-----------------|
| ISL-CHEX | Memory channel expansion (4000 CH) | \$ 420.00 | \$ 315.00 |
| ISL-P25AES | AES activation key enables AES in radio (requires UT134 or UT125 FIPS-2) | \$ 360.00 | \$ 270.00 |
| ISL-P25DS | P25 packet data service (GPS/text) license | \$ 175.00 | \$ 131.25 |
| ISL-P25FP | Front panel programming | \$ 330.00 | \$ 247.50 |
| ISL-P25P2 | P25 Phase 2 trunking license (Phase 1 license required) | \$ 420.00 | \$ 315.00 |
| ISL-P25TR | P25 Phase 1 trunking license | \$ 500.00 | \$ 375.00 |
| ISL-P25VS | P25 conventional voting scan license | \$ 120.00 | \$ 90.00 |
| ISL-P25W | Enable 25kHz in the F7010/F7510 radios | \$ 5.00 | \$ 3.75 |
| ISL-UGMTR | Type D trunking license for single and multi-site trunking | \$ 125.00 | \$ 93.75 |
| IUK2CMA | Dual COMMANDMIC adapter | \$ 465.00 | \$ 348.75 |
| K220A | Aviation mobile antenna with a magnetic mount | \$ 75.00 | \$ 56.25 |
| K220C | Aviation mobile antenna with a rooftop hole mount | \$ 60.00 | \$ 45.00 |
| KA KVL125 | KVL unit powered by 9-volt battery | \$ 3,185.00 | \$ 2,388.75 |
| KLEIN DOUBLE AGENT-S8 | 2-Wire Kit D-Ring Earloop for F50/F60 | \$ 70.00 | \$ 52.50 |
| LAIRD EXH 160 MXI | 155-160MHz antenna | \$ 26.00 | \$ 19.50 |
| LARSEN SPHL10160IC | 151-163MHz helical ¼ wave antenna center tuned to 157MHz | \$ 26.00 | \$ 19.50 |
| LC159 | Leather carrying case for the A6/A24 | \$ 43.00 | \$ 32.25 |
| LC178 | Carrying case for ID-31A | \$ 45.00 | \$ 33.75 |
| LC179 | Carrying case for ID51A | \$ 35.00 | \$ 26.25 |
| LC189 | R30 carrying case | \$ 30.00 | \$ 22.50 |
| LCF1000S | Leather carrying case with a swivel for F1000/2000/D non display radios | \$ 50.00 | \$ 37.50 |
| LCF1000SS | Leather carrying case with a swivel belt loop and cutout for the display for the F1000S/2000S | \$ 50.00 | \$ 37.50 |
| LCF1000TS | Leather case for the F1000T/2000T with a full keypad cutout with a swivel loop | \$ 50.00 | \$ 37.50 |
| LCF1034SW | Leather case with swivel belt loop and D-ring; no display cutout for the F3400D | \$ 50.00 | \$ 37.50 |
| LCF1035SW | Leather case with swivel belt loop and D-ring; display cutout for the F3400DS & F7010S | \$ 50.00 | \$ 37.50 |
| LCF1036SW | Leather case with swivel belt loop and D-ring; display & full keypad cutout for the F3400DT & F7010T | \$ 50.00 | \$ 37.50 |
| LCF1052S | Leather case with swivel belt loop and D-ring for the F52D | \$ 50.00 | \$ 37.50 |
| LCF14 SWIVEL | Leather carrying case with a swivel F14/24 & F3011/4011 radios | \$ 50.00 | \$ 37.50 |
| LCF21 CLIP | Leather carrying case with a clip F11/21 radios | \$ 45.00 | \$ 33.75 |
| LCF3000 SWIVEL | Leather carrying case with a swivel for the F3001/4001 & F3101D/4101D radios | \$ 50.00 | \$ 37.50 |
| LCF3021S SWIVEL | Leather carrying case with a metal swivel clip and cutout for the display | \$ 50.00 | \$ 37.50 |
| LCF3061S SWIVEL | Leather case for the F3161/4161 with a swivel clip | \$ 50.00 | \$ 37.50 |
| LCF3061T SWIVEL | Leather case for the F3161/4161 with a full keypad cutout with a swivel belt clip | \$ 50.00 | \$ 37.50 |
| LCF3261S SWIVEL | Leather carrying case with a swivel clip and cutout for the display for F3261 | \$ 50.00 | \$ 37.50 |
| LCF3261T SWIVEL | Leather carrying case with a swivel clip and cutout for the DTMF keypad for F3261 series | \$ 50.00 | \$ 37.50 |
| LCF70 CLIP | Leather case with a metal clip and DTMF keypad cutout for the F70/80 series radios. | \$ 45.00 | \$ 33.75 |
| LCF70S LOOP | Leather case with a belt loop for the F70/80 series radios. Case is not IS approved with any of our IS radios. | \$ 38.00 | \$ 28.50 |
| LCF9011S SWIVEL | Leather carrying case with a swivel clip for the F9011/9021 radios without a full keypad | \$ 50.00 | \$ 37.50 |
| LCF9011T SWIVEL | Leather carrying case with a swivel clip for the F9011T/9021T radios with a full keypad cutout | \$ 50.00 | \$ 37.50 |
| M802 CHEA | An adaptor that allows 2 control cables to be hooked together for long distance between the head and the radio | \$ 23.00 | \$ 17.25 |
| MB VP3 | Rack mounting shelf for VEPG3/IP1000C | \$ 100.00 | \$ 75.00 |
| MB103 | Alligator belt clip | \$ 12.50 | \$ 9.38 |
| MB103Y | Yellow alligator belt clip for the GM1600 | \$ 14.00 | \$ 10.50 |
| MB109 | Belt clip for the M34/M36/M92D | \$ 10.00 | \$ 7.50 |
| MB115 | Standard belt clip for F9011 series | \$ 10.00 | \$ 7.50 |
| MB116 | Front handles for the 7200 | \$ 92.00 | \$ 69.00 |
| MB117 | Carry handle and mounting hardware for the IC-7200 | \$ 30.00 | \$ 22.50 |
| MB118 | Mounting bracket for the IC-7200 | \$ 50.00 | \$ 37.50 |

| Model | Description | Retail | HGAC Unit Price |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------|
| MB121 | Carrying handle for 7610 | \$ 33.00 | \$ 24.75 |
| MB123 | Carrying handle for 7300/9100/7410 | \$ 35.00 | \$ 26.25 |
| MB124 | Alligator type belt clip | \$ 12.00 | \$ 9.00 |
| MB126 | Mounting bracket for F8101 | \$ 300.00 | \$ 225.00 |
| MB127 | Alligator belt clip | \$ 18.00 | \$ 13.50 |
| MB130 | Vehicle charger bracket holds rapid charger and requires cigarette lighter cable | \$ 83.00 | \$ 62.25 |
| MB132 | Flush mount kit for M324/G/M424/G | \$ 39.00 | \$ 29.25 |
| MB133 | Alligator type belt clip | \$ 17.00 | \$ 12.75 |
| MB135 | Alligator type belt clip | \$ 10.00 | \$ 7.50 |
| MB136 | Swivel belt clip for F1000/F3400/F7010/F52D/M85 series | \$ 15.00 | \$ 11.25 |
| MB23 | Carry handle and mounting hardware for the IC-718/77/707/821H/R8500/R75 | \$ 20.00 | \$ 15.00 |
| MB2730B | Base station mount (MBF4 + MBA4) | \$ 85.00 | \$ 63.75 |
| MB2730R | Remote head kit w/mobile bracket (MBF4 + MBA5) | \$ 65.00 | \$ 48.75 |
| MB2730R1 | Glass mount remote head kit w/mobile bracket (MBF1+MBF4+MBA5) | \$ 149.00 | \$ 111.75 |
| MB28H | Universal mounting bracket for small Amateur mobiles. Radio Width 141mm (5.5") screw spacing 50mm (2.0") One radio mounting hole fixed, one adjustable. 27/28/228H/229H/2350H/2710H/2720H/2200H/207H/208H | \$ 29.00 | \$ 21.75 |
| MB53 | Mobile mounting bracket that includes HM176 microphone, SP35 external speaker, MBA-3 rear panel adapter, and harness for A200/A210/A220 | \$ 500.00 | \$ 375.00 |
| MB62 | Main Unit mounting bracket for the 706 Series, 703 Series, 7000 & 7100 | \$ 50.00 | \$ 37.50 |
| MB69 | Flush mount kit for mounting controller or speaker to a panel M200/M412/M302/M402/M45/M304/M422 | \$ 39.00 | \$ 29.25 |
| MB74N | Alligator Clip for BP209 & BP210 (non N version batteries) | \$ 12.00 | \$ 9.00 |
| MB75 | Flush mount kit for mounting controller or speaker to a panel for M506/M605/M802/M504/M604/MA500TR/M502/M602 | \$ 37.00 | \$ 27.75 |
| MB86 | Swivel belt clip that screws into back of radio | \$ 12.00 | \$ 9.00 |
| MB92 | Dust cover M304/402 series | \$ 10.00 | \$ 7.50 |
| MB93 | Swivel belt clip | \$ 11.00 | \$ 8.25 |
| MB94 | Alligator belt clip | \$ 10.50 | \$ 7.88 |
| MB94EX | Blue alligator belt clip for F3201DEX/4201DEX | \$ 17.00 | \$ 12.75 |
| MB94R | Alligator belt clip with long clip that angles the antenna/top of radio off the body | \$ 18.00 | \$ 13.50 |
| MB96N | Swivel belt hanger to use with standard belt clip | \$ 37.00 | \$ 27.75 |
| MB98 | Standard belt clip for the F50/60 & M88 | \$ 13.00 | \$ 9.75 |
| MB99A | Wall mounting bracket VEPG3/IP1000C | \$ 65.00 | \$ 48.75 |
| MBA1 | Controller bracket for 7100 | \$ 40.00 | \$ 30.00 |
| MBA2 | Remote head mounting bracket for the ID5100A | \$ 40.00 | \$ 30.00 |
| MBA3 | Rear panel adapter with a card edge connector for the A220 | \$ 105.00 | \$ 78.75 |
| MBA4 | Bracket to attach the controller to the main unit | \$ 65.00 | \$ 48.75 |
| MBA5 | Bracket to attach the controller to the MBF-1 | \$ 40.00 | \$ 30.00 |
| MBA7 | Bracket adapter for the BC-218 | \$ 40.00 | \$ 30.00 |
| MBA8 | Controller bracket for ID4100A | \$ 40.00 | \$ 30.00 |
| MBB3 | Standard belt clip | \$ 16.00 | \$ 12.00 |
| MBF1 | Remote head mount. Adhesive pad and adjustable pivot points holds it securely. Requires MBA5, MBA7 or MBA8. | \$ 85.00 | \$ 63.75 |
| MBF4 | Mounting bracket for the ID5100 | \$ 35.00 | \$ 26.25 |
| MBF5 | Flush mount kit for M330 series | \$ 30.00 | \$ 22.50 |
| MN100 | Antenna matcher. Matches the transceiver to a dipole antenna. Covers all HF bands from 1.5 to 30MHz. Two 8m antenna wires come standard. | \$ 480.00 | \$ 360.00 |
| MN100L | Antenna matcher. Matches the transceiver to a long wire antenna. Covers all HF bands from 1.5 to 30mhz. One 15m antenna comes standard. | \$ 455.00 | \$ 341.25 |
| MOUNT 1 | NMO Permanent Mount, 17ft RG58 cable, PL259 connector | \$ 23.00 | \$ 17.25 |
| MOUNT 2 | Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259 | \$ 38.00 | \$ 28.50 |
| MOUNT 3 | Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector | \$ 45.00 | \$ 33.75 |
| MSD CARD | 32GB micro SD card | \$ 30.00 | \$ 22.50 |
| MXG5000S | GPS receiver | \$ 330.00 | \$ 247.50 |
| NC100H | Nylon case with a clip for the IP100H | \$ 25.00 | \$ 18.75 |

| Model | Description | Retail | HGAC Unit Price |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------|
| NCA25 | Nylon case for the A25 | \$ 27.00 | \$ 20.25 |
| NCF1000C | Nylon carrying case with a clip for the F1000/2000/D non display radios | \$ 27.00 | \$ 20.25 |
| NCF1000SC | Nylon carrying case with a clip and cutout for the display F1000S/2000S | \$ 27.00 | \$ 20.25 |
| NCF1000TC | Nylon carrying case with a clip and cutout for the display and keypad F1000T/2000T | \$ 27.00 | \$ 20.25 |
| NCF1034C | Nylon case with metal clip without display cutout for the F3400D | \$ 27.00 | \$ 20.25 |
| NCF1035C | Nylon case with metal clip with display cutout; F3400DS/F7010S | \$ 27.00 | \$ 20.25 |
| NCF1036C | Nylon case with metal clip with full keypad cutout; F3400DT/F7010T | \$ 27.00 | \$ 20.25 |
| NCF1052C | Nylon case for the F52D with a clip | \$ 27.00 | \$ 20.25 |
| NCF21 LOOP | Nylon carrying case with a loop F11/21 radios | \$ 25.00 | \$ 18.75 |
| NCF3000 CLIP | Nylon carrying case with a clip for the F3001/4001 & F3101D/4101D radios | \$ 27.00 | \$ 20.25 |
| NCF3021S CLIP | Nylon carrying case with a clip and cutout for the display | \$ 27.00 | \$ 20.25 |
| NCF3061S LOOP | Nylon case with a loop for the F3161S/4161S radios without a DTMF cutout | \$ 25.00 | \$ 18.75 |
| NCF3061T LOOP | Nylon carrying case with a loop for the F3161T/4161T radios with a full keypad | \$ 25.00 | \$ 18.75 |
| NCF30G LOOP | Nylon carrying case with a loop for the F30G/40G & M36 radios | \$ 25.00 | \$ 18.75 |
| NCF3261S CLIP | Nylon carrying case with a clip and cutout for the display for F3261 series | \$ 27.00 | \$ 20.25 |
| NCF3261T CLIP | Nylon carrying case with a clip and cutout for the DTMF keypad for F3261 series | \$ 27.00 | \$ 20.25 |
| NCF9011T CLIP | Nylon carrying case with a clip for the F9011T/9021T radios with a full keypad | \$ 30.00 | \$ 22.50 |
| NCP1 | Nylon chest pack | \$ 50.00 | \$ 37.50 |
| OPC025D | 12V DC power cord with 6-pin connector for HF radios (718/706MK2/G/756PRO/2) | \$ 45.00 | \$ 33.75 |
| OPC1000 | 6.1m/20ft connection cable to use with the HM126RB/RG/HM205RB/HM157 (mounting hardware req.) | \$ 80.00 | \$ 60.00 |
| OPC1069A | Ethernet cable for the IDRP products | \$ 15.00 | \$ 11.25 |
| OPC1106 | Seperation cable between controller and main unit (16.4ft) for M802 | \$ 45.00 | \$ 33.75 |
| OPC1107A | M802 Main Unit DC PC | \$ 28.00 | \$ 21.00 |
| OPC1122U | PC to mobile radio programming cloning cable with USB connector. | \$ 99.00 | \$ 74.25 |
| OPC1132 | DC power cable (9.8ft) with 2-pin T connector. | \$ 45.00 | \$ 33.75 |
| OPC1147N | Shielded control cable to connect the M802 to the AT140 (10m) | \$ 79.00 | \$ 59.25 |
| OPC1154A | 3.5m front panel separation cable | \$ 20.00 | \$ 15.00 |
| OPC1156 | Remote head extension cable (3.5m) | \$ 22.00 | \$ 16.50 |
| OPC1174 | M602/M604 DC power cord | \$ 14.00 | \$ 10.50 |
| OPC1309 | DC cable for IDRP products | \$ 32.00 | \$ 24.00 |
| OPC1380 | Power cable for the IDRP products | \$ 62.00 | \$ 46.50 |
| OPC1392 | Headset adapter to use with HS94/95/97 for the M73/M72/GM1600/M90 | \$ 75.00 | \$ 56.25 |
| OPC1457 | DC power cord with 4-pin connector and 30A fuse for 7000/7200/7410/7600/9100 | \$ 90.00 | \$ 67.50 |
| OPC1465 | 32.8ft shielded control cable from AT140 to M803 | \$ 86.00 | \$ 64.50 |
| OPC1529R | Data cable (RS232 to 3.5mm) | \$ 41.00 | \$ 30.75 |
| OPC1532 | Radio to radio cloning cable between P25 mobile radios | \$ 42.00 | \$ 31.50 |
| OPC1533 | Radio to radio cloning cable between F1721/2721/D series mobiles & F70/80/D portable radios | \$ 88.00 | \$ 66.00 |
| OPC1534 | Key Loader cable for P25 radio to KVL3000/4000. For portables: requires OPC-1871, RJ45 female to RJ45 female & 8920001690. For mobiles: requires RJ45 female to RJ45 female & 8920001690. | \$ 225.00 | \$ 168.75 |
| OPC1536 | Radio to radio cloning cable between F70/80/D portable radios | \$ 123.00 | \$ 92.25 |
| OPC1541 | 6.1m/20ft extension cable to use with the COMMANDMIC III/IV with the OPC1540. Up to 2 OPC-1541 can be connected. | \$ 75.00 | \$ 56.25 |
| OPC1655 | Cloning cable adapter for M25/M36/M93D | \$ 47.00 | \$ 35.25 |
| OPC1862 | USB programming cloning cable for radios with 14-pin connector | \$ 189.00 | \$ 141.75 |
| OPC1870 | Radio to radio cloning cable between two 14-pin connector portable radios | \$ 125.00 | \$ 93.75 |
| OPC1871 | Radio to radio cloning cable between 14-pin connector portable & mobile radio; used in conjunction with the OPC1534 for encryption key loading on the F7010 portable series | \$ 110.00 | \$ 82.50 |
| OPC1939 | D-Sub 15-pin ACC cable. Connects with a PC, external speaker, external channel control, ignition sense line or vehicle horn | \$ 95.00 | \$ 71.25 |
| OPC1962 | DC power cord for F9511HT | \$ 60.00 | \$ 45.00 |

| Model | Description | Retail | HGAC Unit Price |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------|
| OPC2004 | Adapter plug to to use the HS94/95/97 for the F3001/4001/3101D/4101D & V80 | \$ 27.00 | \$ 20.25 |
| OPC2004LA | VOX conversion cable to to use the HS-97 for the F1000/D products | \$ 27.00 | \$ 20.25 |
| OPC2006LS | Adapter plug with VOX and no PTT to to use with the HS94/95/97 | \$ 35.00 | \$ 26.25 |
| OPC2078 | D-Sub 25-pin ACC cable. Connects with a PC, external speaker, external channel control, ignition sense line or vehicle horn | \$ 120.00 | \$ 90.00 |
| OPC2091 | Cloning cable adapter for M24 | \$ 35.00 | \$ 26.25 |
| OPC2144 | Right angle plug adapter cable to plug old straight pin connector headsets into (required to use with OPC478 when programming radios) | \$ 35.00 | \$ 26.25 |
| OPC2218LU | Cloning/data cable with USB connector for ID51A/ID31A/5100A/7100 | \$ 75.00 | \$ 56.25 |
| OPC2253 | 3.5m (11ft) separation cable | \$ 75.00 | \$ 56.25 |
| OPC2254 | 5m (16ft) separation cable | \$ 95.00 | \$ 71.25 |
| OPC2273 | 5m audio connection cable between the VEPG3 and the M604A (Waterproof 8-pin connector). | \$ 150.00 | \$ 112.50 |
| OPC2274 | 5m audio connection cable between the VEPG3 and the FR5000 series (D-SUB 25-pin connector). For use only with systems that do not utilize tones or RAN's for squelching. | \$ 235.00 | \$ 176.25 |
| OPC2275 | 5m audio connection cable between the VEPG3 and the F5061/D series or A120 (RJ-45 modular plug connector with speaker plug). | \$ 150.00 | \$ 112.50 |
| OPC2276 | 5m audio connection cable between the VEPG3 and the HM152/SM26 (Modular jack connector with speaker jack) | \$ 215.00 | \$ 161.25 |
| OPC2308 | GPS/External modem connection cable | \$ 175.00 | \$ 131.25 |
| OPC2309 | Antenna tuner control cable for AT140/AH740 for F8101 (10M or 32.8ft) | \$ 170.00 | \$ 127.50 |
| OPC2321 | Control cable adapter to 4 pin type for AH740 | \$ 175.00 | \$ 131.25 |
| OPC2328 | Adapter plug with PTT to to use with the HS94/95/97 | \$ 100.00 | \$ 75.00 |
| OPC2338 | 14-pin programming cable plus transparent data transfer | \$ 235.00 | \$ 176.25 |
| OPC2344 | Modular connector programming cable plus Type-C NXDN transparent data transfer for F5360D/4360D | \$ 135.00 | \$ 101.25 |
| OPC2350LU | Smart phone data cable | \$ 75.00 | \$ 56.25 |
| OPC2359 | PTT switch cable | \$ 80.00 | \$ 60.00 |
| OPC2361 | DC power cord with 25A fuse for 718/78/7300 | \$ 66.00 | \$ 49.50 |
| OPC2362 | Handheld to mobile zone copy cable (14-pin to 10-pin DIM) | \$ 100.00 | \$ 75.00 |
| OPC2363 | 10-pin DIM programming cable | \$ 110.00 | \$ 82.50 |
| OPC2364 | 1.9m/6.2ft separation cable for RMK5/RMK7 | \$ 60.00 | \$ 45.00 |
| OPC2365 | 3m/9.8ft separation cable for RMK5/RMK7 | \$ 63.00 | \$ 47.25 |
| OPC2366 | 5m/16.4ft separation cable for RMK5/RMK7 | \$ 67.00 | \$ 50.25 |
| OPC2367 | 8m/26.2ft separation cable for RMK5/RMK7 | \$ 80.00 | \$ 60.00 |
| OPC2373 | 1.9m/6.2ft separation cable for HM218 | \$ 62.00 | \$ 46.50 |
| OPC2374 | 8m/26.2ft separation cable for HM218 | \$ 95.00 | \$ 71.25 |
| OPC2377 | 32.8ft extension cable for RC-M600 | \$ 90.00 | \$ 67.50 |
| OPC2379 | Headset adapter cable for A25 | \$ 95.00 | \$ 71.25 |
| OPC2382 | Conversion cable to program M605 (links OPC478UC to M605) | \$ 27.00 | \$ 20.25 |
| OPC2383 | 32.8ft connection cable for RC-M600 | \$ 90.00 | \$ 67.50 |
| OPC2384 | 12-pin to 8-pin conversion cable to connect HM195 to M605 (1 cable required per HM195) | \$ 50.00 | \$ 37.50 |
| OPC2389 | Cable connecting serial device w/RS232 | \$ 85.00 | \$ 63.75 |
| OPC2390 | Cable connecting VEPG4 to FR5000/6000 | \$ 200.00 | \$ 150.00 |
| OPC2401 | Headset adapter with screw down connector (A16) | \$ 105.00 | \$ 78.75 |
| OPC2407 | D-SUB 25-pin connector for the IP501M | \$ 100.00 | \$ 75.00 |
| OPC2412 | Connection cable between VEPG4 & SAT100 | \$ 115.00 | \$ 86.25 |
| OPC254L | Power supply cable; 10-14V DC required for high power output | \$ 20.00 | \$ 15.00 |
| OPC344 | A110/A120 power cord | \$ 16.00 | \$ 12.00 |
| OPC346 | Power cable for the 281H DELTA 100H 2000H F320S F420S F1020 2710H | \$ 45.00 | \$ 33.75 |
| OPC347 | DC power cable (23ft) | \$ 70.00 | \$ 52.50 |
| OPC440 | Microphone extension cable (RJ-45 M/F) (16.4ft) | \$ 100.00 | \$ 75.00 |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$ 60.00 | \$ 45.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$ 70.00 | \$ 52.50 |
| OPC510 | AC power cable for the 7800/7700 | \$ 30.00 | \$ 22.50 |

| Model | Description | Retail | HGAC Unit Price |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|
| OPC515L | DC power cable for single unit rapid chargers | \$ 26.00 | \$ 19.50 |
| OPC566 | Cable to connect the AT130 to the M710 (30 ft.) | \$ 168.00 | \$ 126.00 |
| OPC568 | M710/M700PRO Power Cord | \$ 50.00 | \$ 37.50 |
| OPC589 | Microphone adapter cable (8 pin to RJ-45) | \$ 45.00 | \$ 33.75 |
| OPC592 | Programming cloning cable for PC to radio (must use with OPC-478/UC) | \$ 17.00 | \$ 12.75 |
| OPC599 | Cable adapter converts 13-pin ACC connector to 7-pin & 8-pin ACC connector | \$ 80.00 | \$ 60.00 |
| OPC607 | 3m/9.8ft separation cable for remote mounting kits | \$ 57.00 | \$ 42.75 |
| OPC608 | 8m/26.2ft separation cable for remote mounting kits | \$ 76.00 | \$ 57.00 |
| OPC609 | 1.9m/6.2ft separation cable for remote mounting kits | \$ 55.00 | \$ 41.25 |
| OPC617 | Accessory cable for external terminal connection | \$ 65.00 | \$ 48.75 |
| OPC647 | Microphone extension cable 8.2ft | \$ 75.00 | \$ 56.25 |
| OPC656 | DC power cable for gang charger | \$ 12.00 | \$ 9.00 |
| OPC726 | 5m/16.4ft separation cable for remote mounting kits | \$ 65.00 | \$ 48.75 |
| OPC871A | Headset adapter A120/A110 | \$ 154.00 | \$ 115.50 |
| OPC891A | M504/M422 power cord | \$ 12.00 | \$ 9.00 |
| OPC-9000 | Programming cable for the FR9010/9020 repeaters | \$ 270.00 | \$ 202.50 |
| OPC922 | Cloning cable adapter for M72/M73/M92D | \$ 65.00 | \$ 48.75 |
| OPC966U | USB programming cloning cable for radios with 9-pin connector | \$ 168.00 | \$ 126.00 |
| OPC980 | Cloning cable adapter for M424/M504/M604 | \$ 37.00 | \$ 27.75 |
| OPC999 | 20ft extension cable to connect COMMANDMIC II or HM-205RB to the OPC1000 and radio. Connect up to two HM205RB with M506 or one with M605. | \$ 55.00 | \$ 41.25 |
| OPC-IAKVL1 | Interface Cable with RJ45 Connector between P25 mobiles & KA KVL125 | \$ 150.00 | \$ 112.50 |
| OPC-IAKVL14 | Interface Cable with 14 Pin Connector between P25 portable & KA KVL125 | \$ 230.00 | \$ 172.50 |
| OPC-IAKVL9 | Interface Cable with 9 Pin Connector between F70D/F80D & KA KVL125 | \$ 200.00 | \$ 150.00 |
| OTTO V110282 | Speaker mic earpiece(2.5mm straight plug) | \$ 50.00 | \$ 37.50 |
| OTTO V110822 | 2-Wire palm mic kit (earphone cable and mic/ptt cable) with 9-pin connector | \$ 125.00 | \$ 93.75 |
| OTTO V1T12CD137 | Throat Mic Sys w/tube ear piece and body PTT with 9 pin connector for F30G/40G | \$ 505.00 | \$ 378.75 |
| OTTO V410399 | Skull Mic System w/earcup and 80mm body PTT for F30G/40G and M88 | \$ 650.00 | \$ 487.50 |
| OTTO V410514 | Lightweight single speaker w/in-line ptt, padded headband (9-pin connector) | \$ 155.00 | \$ 116.25 |
| OTTO V4EX2CC5 | Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle connector) | \$ 90.00 | \$ 67.50 |
| OTTO V4EX2CS5 | Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle screw down connector) | \$ 145.00 | \$ 108.75 |
| PA OPC499 | Headset adapter | \$ 60.00 | \$ 45.00 |
| PS310 01 | 24V DC-DC converter | \$ 350.00 | \$ 262.50 |
| PS310 02 | 12V DC-DC converter | \$ 350.00 | \$ 262.50 |
| PS80 | Power supply that includes the HM-176 & MBA-3 for A220/A210/A200 | \$ 1,245.00 | \$ 933.75 |
| PTT SW | Avionic PTT switch. Plugs into your headset. | \$ 28.00 | \$ 21.00 |
| PW1U 01 | 1KW Linear Amp | \$ 7,810.00 | \$ 5,857.50 |
| RC25 | Remote controller head for M802 | \$ 441.00 | \$ 330.75 |
| RC28 | Remote control USB encoder | \$ 370.00 | \$ 277.50 |
| RCFS10 | Remote Communicator software + CT-24 (digital voice converter unit - each IDAS system requires 1 CT-24) | \$ 1,820.00 | \$ 1,365.00 |
| RCM600 | Command head for M605. Comes with OPC-2383 & HM-205RB. | \$ 640.00 | \$ 480.00 |
| RFT P25 UHF MANUAL | RFT UHF P25/analog manual (included with repeater purchase) | \$ 112.00 | \$ 84.00 |
| RFT P25 VHF MANUAL | RFT VHF P25/analog manual (included with repeater purchase) | \$ 112.00 | \$ 84.00 |
| RMK2 | F1721/1821 bracket & face plate for remote mounting. Separation cable not included | \$ 145.00 | \$ 108.75 |
| RMK3 01 | F5061/6061 bracket & face plate for remote mounting. Separation cable not included | \$ 110.00 | \$ 82.50 |
| RMK4 01 | Dual head and separation kit for F9511HT. Requires external speaker and cable. | \$ 860.00 | \$ 645.00 |
| RMK5 | Bracket & face plate for remote mounting for the F5400D/F6400D. Separation cable not included. | \$ 215.00 | \$ 161.25 |
| RMK6 | Remote mount kit for the F8101. Separation cable sold separately. | \$ 360.00 | \$ 270.00 |
| RMK7 | Dual head and separation kit for the F5400D/F6400D. Separation cables & microphone not included. | \$ 650.00 | \$ 487.50 |
| RR FIRMWARE UPGRADE | Add 3.1 RR firmware to your IDAS radio | \$ 16.66 | \$ 12.50 |

| Model | Description | Retail | HGAC Unit Price |
|---------------|--------------------------------------------------------------------------------------------------------|-------------|-----------------|
| RSAP3 | Access point management software | \$ 1,500.00 | \$ 1,125.00 |
| RS-BA1 V2 | IP remote control software for amateur radios | \$ 149.00 | \$ 111.75 |
| RSBC225 | Battery management software for the BP-283/284/BP290. Can connect up to 30 BC-225 chargers to it. | \$ 250.00 | \$ 187.50 |
| RSMGR1 | Remote system manager software for IDAS MultiTrunk | \$ 4,995.00 | \$ 3,746.25 |
| RSR8500 | Remote control software R8500 | \$ 100.00 | \$ 75.00 |
| RSR8600 | Remote control software | \$ 199.00 | \$ 149.25 |
| RSRP3 G3 | Gateway courtesy software | \$ - | \$ - |
| SIM CARD | SIM card for U.S. LTE networks | \$ 9.00 | \$ 6.75 |
| SJ1 | Silicone jacket case | \$ 35.00 | \$ 26.25 |
| SM26 | Desktop microphone with monitor switch for mobile radios | \$ 90.00 | \$ 67.50 |
| SM28 | Desktop microphone for IP501M | \$ 100.00 | \$ 75.00 |
| SM29 | Desktop microphone for F5400 series | \$ 175.00 | \$ 131.25 |
| SM30 | Compact desktop microphone with low cut function | \$ 195.00 | \$ 146.25 |
| SM50 | Desktop unidirectional microphone with up/down switches and low cut function | \$ 400.00 | \$ 300.00 |
| SP23 | External speaker with 4 audio filters; headphone jack (5W) | \$ 330.00 | \$ 247.50 |
| SP24 | External speaker (4x4") for marine fixed mount radios (7W) | \$ 57.00 | \$ 42.75 |
| SP26 | Tube earphone with 2.5mm plug to use with HM-163MC/HM-153LS | \$ 25.00 | \$ 18.75 |
| SP26 | Tube earphone with 2.5mm plug to use with HM-163MC | \$ 25.00 | \$ 18.75 |
| SP27 | Acoustic tube earphone with a clip (3.5mm) | \$ 35.00 | \$ 26.25 |
| SP28 | Earhook type earphone with 2.5mm plug to use with HM-163MC/HM-153LS | \$ 25.00 | \$ 18.75 |
| SP28 | Earhook type earphone with 2.5mm plug to use with HM-163MC | \$ 25.00 | \$ 18.75 |
| SP29 | Earhook type earphone with 3.5mm plug | \$ 25.00 | \$ 18.75 |
| SP30 | 20W large external speaker | \$ 110.00 | \$ 82.50 |
| SP32 | Tube adapter for use with the EH-15B | \$ 30.00 | \$ 22.50 |
| SP33 | Base station speaker (4Ohm) | \$ 120.00 | \$ 90.00 |
| SP34 | Base station high quality speaker with internal audio filters | \$ 465.00 | \$ 348.75 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$ 60.00 | \$ 45.00 |
| SP37 | 40W hailer/speaker for fixed mounts | \$ 66.00 | \$ 49.50 |
| SP38 | 5W external speaker for HF radios | \$ 210.00 | \$ 157.50 |
| SP39AD | External speaker with 15V/2A power supply for the R8600 | \$ 325.00 | \$ 243.75 |
| SP40 | Earphone with 3.5mm plug | \$ 30.00 | \$ 22.50 |
| SP41 | 5W external speaker for HF radios | \$ 299.00 | \$ 224.25 |
| SP-AT1 | Single pin listen only w/QD acoustic tube (9" , 3.5mm L-shape) | \$ 31.50 | \$ 23.63 |
| SPRING CLIP L | Long spring clip insert length 3.5 inches | \$ 5.00 | \$ 3.75 |
| SS BC61 | Mobile rapid charger with cigarette adapter for the F3161 & F3261 series | \$ 215.00 | \$ 161.25 |
| SS BC62 | Mobile rapid charger with cigarette adapter for the F3400 & F7010 series | \$ 235.00 | \$ 176.25 |
| SS BC63 | Mobile rapid charger with cigarette adapter for the F9011 series | \$ 215.00 | \$ 161.25 |
| UCFR5000 01 | Trunking/Network controller board (1 per repeater) | \$ 500.00 | \$ 375.00 |
| UT106 | DSP unit | \$ 195.00 | \$ 146.25 |
| UT109 02 | Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110. | \$ 105.00 | \$ 78.75 |
| UT109R 21 | Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110. | \$ 105.00 | \$ 78.75 |
| UT110 02 | Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. | \$ 173.00 | \$ 129.75 |
| UT110R 21 | Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. Works only in analog mode. | \$ 173.00 | \$ 129.75 |
| UT112 | Digital voice scrambling unit - 32 Codes | \$ 160.00 | \$ 120.00 |
| UT120 01 | P25 upgrade board for F70/80 handhelds | \$ 541.00 | \$ 405.75 |
| UT120 02 | P25 Hardware Upgrade Board - Mobiles | \$ 541.00 | \$ 405.75 |
| UT121 | D-STAR digital board | \$ 229.00 | \$ 171.75 |
| UT125 01 | AES/DES encryption board with OTAR compliance for F9011/F9511 series | \$ 695.00 | \$ 521.25 |
| UT125 FIPS | FIPS 140-2 AES encryption board with OTAR compliance for F9011/F9511 series | \$ 789.00 | \$ 591.75 |
| UT125 FIPS-2 | FIPS 140-2 encryption board; requires ISL-P25AES license key to activate AES | \$ 830.00 | \$ 622.50 |
| UT126H 03 | 6.25kHz digital module for old PLL versions of the F3161/4161 or F5061/6061 radios | \$ 250.00 | \$ 187.50 |
| UT128 | DES encryption for F9011/F9511 radios | \$ 420.00 | \$ 315.00 |

| Model | Description | Retail | HGAC Unit Price |
|--------------------------|---------------------------------------------------------------------------------------------------------|-------------|-----------------|
| UT133 | Bluetooth unit | \$ 99.00 | \$ 74.25 |
| UT134 | AES/DES encryption board; requires ISL code to activate AES | \$ 185.00 | \$ 138.75 |
| UT137 | Bluetooth unit | \$ 99.00 | \$ 74.25 |
| UT-IA100 | Audio amp board for F5061D with RR firmware installed (factory install ONLY; install included in price) | \$ 130.00 | \$ 97.50 |
| UX231 | AIS receive board for M506 | \$ 200.00 | \$ 150.00 |
| UX241 | GPS antenna | \$ 55.00 | \$ 41.25 |
| UX248 | GPS unit | \$ 325.00 | \$ 243.75 |
| UX251 | AIS receiver unit for the M605 | \$ 200.00 | \$ 150.00 |
| UX252 | Analog TCG output for the MR1010RII | \$ 280.00 | \$ 210.00 |
| VESP1 | LTE speakerphone unit | \$ 550.00 | \$ 412.50 |
| VS1L | VOX/PTT case with 2-pin right angle connector. Must use with HS94/HS95/HS97 | \$ 44.00 | \$ 33.00 |
| VS1MC | VOX/PTT case with 14-pin connector. Must use with HS94/HS95/HS97. | \$ 84.00 | \$ 63.00 |
| VS1SC | VOX/PTT case with 9-pin connector. Must use with HS94/HS95/HS97. | \$ 68.00 | \$ 51.00 |
| VS3 | Compact clippable PTT Bluetooth with earphone via 3.5mm jack for all-day operation | \$ 149.00 | \$ 111.75 |
| VS4LA | PTT switch cable to communicate using the HS94/95/97 | \$ 115.00 | \$ 86.25 |
| VS4MC | Cable with heavy duty PTT swith with 14-pin connector. Use with HS94/HS95/HS97. | \$ 150.00 | \$ 112.50 |
| VS5MC | VOX/PTT switch cable to use with headset (HS94/95/97) | \$ 150.00 | \$ 112.50 |
| OPTIONAL SERVICES | | | |
| Model | Description | Retail | HGAC Unit Price |
| CONTROL STATION ASSEMBLE | Install mobile into power supply and cabinet to make control station (no charge courtesy service) | \$ - | \$ - |
| DEALER FIELD INSTALL | Dealer installation charge (vehicle or site) | \$ 358.50 | \$ 358.50 |
| DEALER HOURLY RATE | Authorized Dealer Support | \$ 180.00 | \$ 180.00 |
| ENGRAVE | Engrave radio | \$ 30.00 | \$ 30.00 |
| EXTWARR211 | 1 year extended warranty for a total 3 years | \$ 18.75 | \$ 18.75 |
| EXTWARR212 | 2 year extended warranty for a total 4 years | \$ 33.75 | \$ 33.75 |
| EXTWARR213 | 3 year extended warranty for a total 5 years | \$ 48.75 | \$ 48.75 |
| EXTWARR611 | 1 year extended warranty | \$ 30.00 | \$ 30.00 |
| EXTWARR612 | 2 year extended warranty | \$ 52.50 | \$ 52.50 |
| EXTWARR613 | 3 year extended warranty | \$ 82.50 | \$ 82.50 |
| EXTWARR811 | 1 year extended warranty | \$ 65.00 | \$ 65.00 |
| EXTWARR812 | 2 year extended warranty | \$ 93.00 | \$ 93.00 |
| EXTWARR813 | 3 year extended warranty | \$ 130.00 | \$ 130.00 |
| EXTWARR912 | 1 year extended warranty | \$ 93.75 | \$ 93.75 |
| EXTWARR913 | 2 year extended warranty | \$ 120.00 | \$ 120.00 |
| EXTWARR914 | 3 year extended warranty | \$ 183.75 | \$ 183.75 |
| EXTWARRPT1 | 1 year extended warranty for a total 3 years | \$ 135.00 | \$ 135.00 |
| EXTWARRPT2 | 2 year extended warranty for a total 4 years | \$ 243.75 | \$ 243.75 |
| EXTWARRPT3 | 3 year extended warranty for a total 5 years | \$ 352.50 | \$ 352.50 |
| IASTUN1001 | Icom to tune your system products | \$ 56.25 | \$ 56.25 |
| INSTALLATION AVIONICS | Install radio into power supply | \$ 56.25 | \$ 56.25 |
| INSTALLATION MARINE | Install a component into an Marine mobile or portable | \$ 30.00 | \$ 30.00 |
| INSTALL-IAS | Install a component into a repeater or an item into a cabinet | \$ 56.25 | \$ 56.25 |
| INSTALL-MF | Install a component into an LM mobile or portable | \$ 30.00 | \$ 30.00 |
| PROG-IAS | Icom to program your system products | \$ 56.25 | \$ 56.25 |
| PROGLM6789 | Icom to program your radio or IAS product | \$ 43.93 | \$ 43.93 |
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$ 30.00 | \$ 30.00 |
| QCRRS01 | 3 year comprehensive radio repair service for IDAS radios | \$ 215.00 | \$ 215.00 |
| QCRRS09 | 3 year comprehensive radio repair service for P25 radios | \$ 245.00 | \$ 245.00 |
| QENG-PH | Engineering support - per hour | \$ 200.00 | \$ 200.00 |
| QFS-1D | OnSite Technical/Field Support 1st Day | \$ 5,500.00 | \$ 5,500.00 |

| Model | Description | Retail | HGAC Unit Price |
|---------------------------|--------------------------------------------------------------|---------------|------------------------|
| QFS-AD | OnSite Technical/Field Support Additional Days | \$ 3,200.00 | \$ 3,200.00 |
| QFS-PH | Field/design support -per hour | \$ 175.00 | \$ 175.00 |
| QPPR-EA | Pad printing fee per radio | \$ 12.50 | \$ 12.50 |
| QPPR-SU | Set up fee per design plate | \$ 150.00 | \$ 150.00 |
| QTT-OS1D | On-Site Technical Training 1st Day, Up to 6 People | \$ 5,500.00 | \$ 5,500.00 |
| QTT-OSAD | On-Site Technical Training Add -itional Days, Up to 6 People | \$ 3,200.00 | \$ 3,200.00 |
| QTT-OSPH | Technical training from their desk | \$ 175.00 | \$ 175.00 |
| SERVICE/SALE BUILD-UP IAS | Systems support - per hour | \$ 120.00 | \$ 120.00 |

Icom products that may be discontinued during the contract period and will be removed from the Icom America Retail Price List. A replacement, if available, will be noted. Should you have any questions or require further clarification, please feel free to contact our Customer Service Team at govsales@icomamerica.com or call us at 425.450.6090. FOB Destination CONUS and free surface freight on OTS products.



U.S. Amateur Retail Product & Price Catalog

May 2020



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www.icomamerica.com/downloads

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Warranty

Icom's Standard Warranty

Icom America Inc warrants its Icom manufactured products from all factory defects in material or workmanship under normal use and service. All warranties start from the time the end user purchases all products. All accessories come with a 1-year warranty. See the individual product page for specific warranty coverage.

Icom Service Centers

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Marine, Receivers

Michigan

Icom Service Center – Michigan
1792 Nash Drive
St. Joseph, MI 49085

Phone: 269.429.2334

Services: Amateur, Marine, Receivers

Handhelds



ID51A

VHF UHF Dual Band Transceiver

SPECS

| | |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Frequencies: | TX 144-148, 430-450MHz* RX 136-174, 380-479MHz* Broadcast 0.52-1.710, 88-108 *Guaranteed range 144-148, 440-450MHz |
| Receiver System: | Double conversion |
| Modes: | DV, FM, FM-N |
| Output Power: | 5.0W, 2.5W, 1.0W, 0.5W, 0.1W (High, Mid, Low2, Low1, S-low) |
| Channels: | 1304 (500 regular, 700 D-STAR repeater, 100 program scan edges and 4 call) |
| Waterproof Rating: | IPX7 waterproof protection |
| Weight: | 8.99oz (with BP271) |
| Number in Case: | 10 |
| Warranty: | 1 Year |



FEATURES

RS-MS1A, free download Android™ application to connect phone to radio
Built in GPS
Independent AM/FM receiver
V/V, U/U, V/U Dualwatch
DV fast data mode
DV and FM repeater search function
Dplus reflector link commands
Micro SD card slot for voice/log data storage and data cloning (up to 32GB)
Enhanced D-PRS functions; receive only Base/Object/Item/Weather formats
CI-V commands include GPS TX mode, V data TX and GPS ON/OFF settings
Callsign, repeater list and GPS memory import and export in the CSV format
TX voice memory (1 channel, 60 seconds)
SPEECH function announces the received call sign (DV mode), frequency, and mode
QSO recorder function records incoming and outgoing calls. The voice recorder function can record an off-line conversation.
ID51A PLUS2 additional features:

- Terminal mode allows the user to connect the radio to the internet through a PC or Android™ device and send your voice and /or data through the internet gateway to a destination repeater
- Access point mode allows the user to connect the radio to the internet through PC or Android™ device as an access point. Users can then use another D-STAR radio to send voice and /or data through the Access point radio, and communicate with D-STAR stations all over the world.

SUPPLIED ACCESSORIES

Antenna (FAS270C)
Battery pack (BP271)
Belt clip (MB127)
Cloning software (CS51)
Wall charger (BC167SA)
Hand strap
Data Cable (OPC2350LU)
Owner's manual

ID51A

VHF UHF Dual Band Transceiver

Accessories

| Model | Description | MSRP |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------|
| Antennas | | |
| AD92SMA | Antenna connector adapter to connect a BNC-type antenna | \$20.00 |
| FAS270C | Wideband RX antenna (SMA) | \$35.00 |
| Batteries | | |
| BP271 | Li-ion 7.4V 1200mAh (typical capacity), 1150mAh (minimum value) | \$99.00 |
| BP272 | Li-ion 7.4V 2000mAh (typical capacity), 1880mAh (minimum value) | \$139.00 |
| BP273 | Battery case that holds 3 AA alkaline batteries | \$68.00 |
| Belt Clips | | |
| MB127 | Alligator belt clip | \$18.00 |
| Cables | | |
| OPC2144 | Right angle plug adapter cable to plug old straight pin connector headsets into (required to use with OPC478 when programming radios) | \$35.00 |
| OPC2350LU | Smart phone data cable | \$75.00 |
| OPC254L | Power supply cable; 10-14V DC required for high power output | \$20.00 |
| Carrying Cases | | |
| LC179 | Carrying case for ID51A | \$35.00 |
| SJ1 | Silicone jacket case | \$35.00 |
| Chargers | | |
| BC123SA | AC adapter for rapid chargers; 100-240V with US style plug | \$25.00 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC167SA | Wall trickle charger; 100-240V with US style plug | \$35.00 |
| BC167SD | Wall trickle charger; 100-240V with Euro style plug | \$40.00 |
| BC202IP2 | Rapid charger (includes BC-123SA AC adapter with US plug) | \$70.00 |
| BC211 | Rapid rate 6-unit charger - IP100H | \$510.00 |
| CP12L | Cigarette lighter cable with noise filter and right angle connector | \$43.00 |
| Headsets | | |
| HS94 | Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392 | \$25.00 |
| HS95 | Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392 | \$215.00 |
| HS97 | Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392 | \$42.00 |
| OPC2006LS | Adapter plug with VOX and no PTT to use with the HS94/95/97 | \$35.00 |
| OPC2328 | Adapter plug with PTT to use with the HS94/95/97 | \$100.00 |
| Microphones | | |
| HM183LS | Waterproof compact speaker microphone (2pin connector) | \$120.00 |
| HM186LS | Compact speaker microphone with earphone jack (2 pin connector) | \$65.00 |
| HM75LS | Remote control speaker microphone with transmit indicator and earphone jack (right angle 2-pin, both stereo plug) | \$99.00 |
| SP-AT1 | Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape) | \$31.50 |
| Software & Cables | | |
| OPC2218LU | Cloning/data cable with USB connector for ID51A/ID31A/5100A/7100 | \$75.00 |

ID51A

VHF UHF Dual Band Transceiver

Accessories

| Model | Description | MSRP |
|------------------|--------------------------------------------------------------------------|----------|
| Wire Kits | | |
| HM153LS | Microphone with 2.5mm earphone combination (right angle 2-pin connector) | \$130.00 |
| HM166LS | Earphone microphone with two pin right angle connector | \$99.00 |

ID31A

UHF Handheld Transceiver

SPECS

| | |
|--------------------|------------------------------------------------------------------|
| Frequencies: | TX 420-450MHz* RX 400-479MHz* *Guaranteed range 440-450MHz |
| Receiver System: | Double conversion superheterodyne |
| Modes: | DV, FM, FM-N |
| Output Power: | 5W, 2.5W, 0.5W, 0.1W (High, Mid, Low, S-low) |
| Channels: | 1252 (500 reg., 700 D-STAR, 50 scan edges & 2 call) |
| Waterproof Rating: | IPX7 submersible construction |
| Weight: | 8oz (with BP-271) |
| Number in Case: | 10 |
| Warranty: | 1 year |



FEATURES

- IPX7 submersible construction
- Built-in GPS receiver
- Analog FM/D-STAR DV mode
- Micro SD card slot
- Multiple scan functions
- One touch reply function
- Digital code and call sign squelch functions
- DR (D-STAR Repeater) Mode
- Auto speech function announces the received call sign
- 10 - 16 VDC input charge/operation
- Built-in CTCSS/DTCS encoder/decoder (for analog FM)
- Repeater directory plus GPS near me repeater list
- 16 DTMF memory channels (24 digits)
- Auto power save
- Clock function
- Priority watch
- Key lock function
- CI-V controllable, CT-17 required
- Squelch release function to monitor weak signal

SUPPLIED ACCESSORIES

- Antenna (FAS270C)
- Battery (BP271)
- Belt clip (MB127)
- Wall charger (BC167)
- Cloning software (CS31)
- Owner's manual

IPX7

ID31A

UHF Handheld Transceiver

Configurations

| Model | Description | MSRP |
|------------|---------------------|--------|
| ID31A PLUS | UHF D-STAR handheld | \$0.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------|
| Antennas | | |
| AD92SMA | Antenna connector adapter to connect a BNC-type antenna | \$20.00 |
| Batteries | | |
| BP271 | Li-ion 7.4V 1200mAh (typical capacity), 1150mAh (minimum value) | \$99.00 |
| BP272 | Li-ion 7.4V 2000mAh (typical capacity), 1880mAh (minimum value) | \$139.00 |
| BP273 | Battery case that holds 3 AA alkaline batteries | \$68.00 |
| Belt Clips | | |
| MB127 | Alligator belt clip | \$18.00 |
| Cables | | |
| OPC2144 | Right angle plug adapter cable to plug old straight pin connector headsets into (required to use with OPC478 when programming radios) | \$35.00 |
| OPC254L | Power supply cable; 10-14V DC required for high power output | \$20.00 |
| Carrying Cases | | |
| LC178 | Carrying case for ID-31A | \$45.00 |
| Chargers | | |
| BC123SA | AC adapter for rapid chargers; 100-240V with US style plug | \$25.00 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |
| BC167SA | Wall trickle charger; 100-240V with US style plug | \$35.00 |
| BC167SD | Wall trickle charger; 100-240V with Euro style plug | \$40.00 |
| BC202IP2 | Rapid charger (includes BC-123SA AC adapter with US plug) | \$70.00 |
| CP12L | Cigarette lighter cable with noise filter and right angle connector | \$43.00 |
| Headsets | | |
| HS94 | Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392 | \$25.00 |
| HS95 | Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392 | \$215.00 |
| HS97 | Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392 | \$42.00 |
| OPC2006LS | Adapter plug with VOX and no PTT to use with the HS94/95/97 | \$35.00 |
| Microphones | | |
| HM183LS | Waterproof compact speaker microphone (2pin connector) | \$120.00 |
| HM186LS | Compact speaker microphone with earphone jack (2 pin connector) | \$65.00 |
| HM75LS | Remote control speaker microphone with transmit indicator and earphone jack (right angle 2-pin, both stereo plug) | \$99.00 |
| SP40 | Earphone with 3.5mm plug | \$30.00 |
| SP-AT1 | Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape) | \$31.50 |
| Software & Cables | | |
| OPC2218LU | Cloning/data cable with USB connector for ID51A/ID31A/5100A/7100 | \$75.00 |

ID31A

UHF Handheld Transceiver

Accessories

| Model | Description | MSRP |
|------------------|--------------------------------------------------------------------------|----------|
| Wire Kits | | |
| HM153LS | Microphone with 2.5mm earphone combination (right angle 2-pin connector) | \$130.00 |
| HM166LS | Earphone microphone with two pin right angle connector | \$99.00 |

V86

VHF FM Transceiver

SPECS

| | |
|--------------------|-------------------------------------------------|
| Frequencies: | 144-148MHz |
| Modes: | FM |
| Output Power: | 7.0W, 5.5W, 2.5W, 0.5W (High, Mid, Low) |
| Channels: | 207 (200 alphanumeric, 1 call, 6 scan edges) |
| Waterproof Rating: | IP54 dust-and splash proof |
| Weight: | 10g (w/BP298) |
| Numbers in Case: | 10 |
| Warranty: | 1 Year |



FEATURES

Built-in DTCS/CTCSS encode/decode and tone scan
Internal VOX function
PC programmable
Selectable volume level, VFO/memory channel selection control
Mil Spec 810 C, D, E, F, G

SUPPLIED ACCESSORIES

Antenna (FA45V)
Battery (BP298)
Belt clip (MB124)
Charger (BC240)
1 year warranty



IP54
DUST PROTECTION
& SPLASH PROOF

V86

VHF FM Transceiver

Configurations

| Model | Description | MSRP |
|--------|--------------------|----------|
| V86 12 | 2m 7W VHF handheld | \$142.00 |

Accessories

| Model | Description | MSRP |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------|
| Batteries | | |
| BP263 | Battery case that holds 6 AA alkaline batteries | \$30.00 |
| BP298 | 2250mAh Li-ion battery for the V86 | \$70.00 |
| BP299 | 3150mAh li-ion battery for the V86 | \$90.00 |
| Belt Clips | | |
| MB124 | Alligator type belt clip | \$12.00 |
| Cables | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| OPC656 | DC power cable for gang charger | \$12.00 |
| Chargers | | |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |
| BC240 | Rapid charger for the V86 | \$70.00 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| MB130 | Vehicle charger bracket holds rapid charger and requires cigarette lighter cable | \$83.00 |
| Headsets | | |
| HS94LWP | Earhook headset with boom microphone with 2-pin screw down connector for hands-free operation. | \$60.00 |
| HS95LWP | Behind-the-head type with boom microphone with 2-pin screw down connector | \$290.00 |
| HS97 | Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392 | \$42.00 |
| OPC2004LA | VOX conversion cable to to use the HS-97 for the F1000/D products | \$27.00 |
| VS4LA | PTT switch cable to communicate using the HS94/95/97 | \$115.00 |
| Microphones | | |
| HM158LA | Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker) | \$47.00 |
| HM159LA | Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker) | \$77.00 |
| HM168LWP | Waterproof speaker microphone | \$140.00 |
| SP-AT1 | Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape) | \$31.50 |
| Wire Kits | | |
| HM153LA | Covert durable microphone with earphone combination (right angle 2-pin screw down connector) | \$125.00 |
| HM166LA | Earphone microphone with 2-pin right angle connector | \$53.00 |

T70A

VHF/UHF FM Transceiver

SPECS

| | |
|--------------------|------------------------------------------------------------------------------------------------------|
| Frequencies: | TX 144-148MHz, 420-450MHz* RX 136-174, 400-479MHz* *Guaranteed range 144-148MHz, 440-450MHz |
| Receiver System: | Double conversion Superheterodyne |
| Modes: | FM, FM(N) |
| Output Power: | 5.0W, 2.5W, 0.5W (High, Mid, Low) |
| Channels: | 302 (2 call channels, 50 scan edges) |
| Waterproof Rating: | IP54 dust-protection and water- resistance |
| Weight: | 13.4oz (with BP-264) |
| Number in Case: | 10 |
| Warranty: | 1 Year |



FEATURES

CTCSS encode/decode w/tone scan
700mW loud audio
Long battery life
External DC power jack
Internal VOX function
Repeater lockout and busy channel lockout
PC programmable with optional CST70
Wide/narrow channel spacing
TOT (time out timer) setting
Auto repeater offset
16 DTMF memories
Mil-STD-810 rugged construction

SUPPLIED ACCESSORIES

Antenna (FAS270C)
Battery pack (BP263 or BP264)
Belt clip (MB124)
Hand strap
Wall charger (BC167SA)
Owner's manual



IP54
DUST PROTECTION
& SPLASH PROOF

T70A

VHF/UHF FM Transceiver

Accessories

| Model | Description | MSRP |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------|
| Antennas | | |
| AD92SMA | Antenna connector adapter to connect a BNC-type antenna | \$20.00 |
| FAS270C | Wideband RX antenna (SMA) | \$35.00 |
| Batteries | | |
| BP263 | Battery case that holds 6 AA alkaline batteries | \$30.00 |
| BP264 | Ni-MH 7.2V 1400mAh | \$47.00 |
| BP265 | Li-ion 7.4V 1900mAh | \$62.00 |
| Belt Clips | | |
| MB124 | Alligator type belt clip | \$12.00 |
| Cables | | |
| OPC254L | Power supply cable; 10-14V DC required for high power output | \$20.00 |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| Chargers | | |
| BC123SA | AC adapter for rapid chargers; 100-240V with US style plug | \$25.00 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |
| BC193 | Rapid charger for radios with BP265 Li-ion battery; 100-240V with US style plug | \$67.00 |
| BC193E | Rapid charger for radios with BP265 Li-ion battery; 100-240V with Euro style plug | \$67.00 |
| BC197 02 | Six unit charger for radios with the BP264 NiMH battery (includes AC adapter and cups installed); 100-240V with US style plug | \$510.00 |
| BC197 03 | Six unit charger for radios with the BP264 NiMH battery (includes AC adapter and cups installed); 100-240V with Euro style plug | \$510.00 |
| BC197 12 | 110-240V six unit charger for radios with the BP265 Li-Ion battery (includes AC adapter with US plug and cups installed) | \$510.00 |
| BC197 13 | 220V six unit charger for radios with the BP265 Li-Ion battery (includes AC adapter and cups installed) | \$510.00 |
| CP12L | Cigarette lighter cable with noise filter and right angle connector | \$43.00 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| MB130 | Vehicle charger bracket holds rapid charger and requires cigarette lighter cable | \$83.00 |
| Manuals | | |
| 94415529 | T70A service manual - CD | \$16.95 |
| 97715527 | T70A service manual - hardcopy | \$0.00 |
| 98815528 | T70A owner's manual | \$0.00 |
| Microphones | | |
| HM131 | Speaker/microphone with earphone jack and clip (straight 2-pin, both stereo plug) | \$45.00 |
| SP27 | Acoustic tube earphone with a clip (3.5mm) | \$35.00 |
| Software & Cables | | |
| CST70 | T70A software | \$50.00 |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |

T70A

VHF/UHF FM Transceiver

Accessories

| Model | Description | MSRP |
|------------------|---------------------------------------------------|---------|
| Wire Kits | | |
| HM128 | Earphone-microphone with 2-pin straight connector | \$30.00 |

Mobiles



2300H

2M Mobile Transceiver

SPECS

| | |
|------------------|-----------------------------------------------------------------|
| Frequencies: | TX 144-148MHz RX 136-174MHz* *Guaranteed range 144-148MHz |
| Receiver System: | Double conversion superheterodyne |
| Modes: | FM, FM-N |
| Output Power: | 65W, 25W, 10W, 5W |
| Channels: | 207 (including 6 scan edges and 1 call channel) |
| Weight: | 2.43lb |
| Number in Case: | 4 |
| Warranty: | 1 Year |



FEATURES

- Powerful 4.5W audio output
- Built-in CTCSS/DTCS encoder/decoder
- Multiple scan functions
- Wide/narrow channel setting
- Power supply voltage display
- DTMF autodial
- Repeater lockout
- Time-out timer
- Automatic power off
- S-meter squelch
- Selectable LCD backlight color (amber, yellow or green)
- Squelch attenuator

SUPPLIED ACCESSORIES

- Remote control microphone (HM133V)
- Microphone hanger
- Mobile mounting bracket kit
- DC power cable (OPC1132)
- Spare fuses
- Owner's manual



2300H

2M Mobile Transceiver

Configurations

| Model | Description | MSRP |
|----------|-----------------------------|----------|
| 2300H 05 | 65W, 2m (144-148MHz) mobile | \$236.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Cables | | |
| OPC1132 | DC power cable (9.8ft) with 2-pin T connector. | \$45.00 |
| OPC347 | DC power cable (23ft) | \$70.00 |
| OPC440 | Microphone extension cable (RJ-45 M/F) (16.4ft) | \$100.00 |
| OPC589 | Microphone adapter cable (8 pin to RJ-45) | \$45.00 |
| External Speakers | | |
| SP34 | Base station high quality speaker with internal audio filters | \$465.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| Manuals | | |
| 94416534 | 2300H service manual - CD | \$16.95 |
| 97716530 | 2300H service manual - hardcopy | \$0.00 |
| 98816533 | 2300H owner's manual | \$0.00 |
| Microphones | | |
| HM133V | Standard partial function remote microphone (squellch only) 2300H/V8000 | \$106.00 |
| HM154 | Simple microphone for Amateur mobile radios (RJ45) | \$55.00 |
| Mounting Hardware | | |
| MB28H | Universal mounting bracket for small Amateur mobiles. Radio Width 141mm (5.5") screw spacing 50mm (2.0") One radio mounting hole fixed, one adjustable. 27/28/228H/229H/2350H/2710H/2720H/2200H/207H/208H | \$29.00 |
| Software & Cables | | |
| CS2300H | Cloning software for 2300H | \$85.00 |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |

2730A

VHF/UHF Dual Band Transceiver

SPECS

| | |
|-----------------|----------------------------------------------------------------------------------------------------------|
| Frequencies*: | Transmit: 144-148, 430-450MHz Receiver: 118-174, 375-550MHz *Guaranteed range: 144-148, 430-450MHz |
| Modes: | F2D, F3E |
| Output Power: | 50/15/5W |
| Channels: | 1052 (incl. 50 scan edges and 2 call) |
| Weight: | Main unit: 2.65lb Controller: 4.94oz |
| Number in Case: | 5 |
| Warranty: | 1 Year |



FEATURES

Bluetooth® headset for hands free communication and remote control of the radio with three programmable buttons
Multiple mounting options
V/U, U/U simultaneous receive capability
Independent controls for each band
Durable PA module, 50W output power for VHF and UHF bands
104 DTCS and 50 CTCSS tone codes
Split tone function allows you to encode and decode different CTCSS/DTCS tones
Squelch delay and squelch attenuator
Sub band auto mute function
Sub band busy beep function
Auto repeater functions
Auto power off
Time-out-timer
16 DTMF auto dial memories
Weather channel receive with weather alert
CI-V remote control capability

SUPPLIED ACCESSORIES

Hand microphone (HM207)
DC power cable (OPC345A)
Controller cable (OPC837, 11.4ft)
Microphone hanger
Spare fuses
Owner's manual



2730A

VHF/UHF Dual Band Transceiver

Configurations

| Model | Description | MSRP |
|----------|-------------------------------|----------|
| 2730A 05 | VHF/UHF dual band transceiver | \$352.00 |

Accessories

| Model | Description | MSRP |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------|
| Cables | | |
| OPC440 | Microphone extension cable (RJ-45 M/F) (16.4ft) | \$100.00 |
| OPC589 | Microphone adapter cable (8 pin to RJ-45) | \$45.00 |
| OPC647 | Microphone extension cable 8.2ft | \$75.00 |
| Encryption & Internal Modules | | |
| UT133 | Bluetooth unit | \$99.00 |
| External Speakers | | |
| SP30 | 20W large external speaker | \$110.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| Headsets | | |
| VS3 | Compact clippable PTT Bluetooth with earphone via 3.5mm jack for all-day operation | \$149.00 |
| Microphones | | |
| HM154 | Simple microphone for Amateur mobile radios (RJ45) | \$55.00 |
| HM207 | Control hand microphone (ID-5100) | \$99.00 |
| Mounting Hardware | | |
| MB2730B | Base station mount (MBF4 + MBA4) | \$85.00 |
| MBA4 | Bracket to attach the controller to the main unit | \$65.00 |
| MBF4 | Mounting bracket for the ID5100 | \$35.00 |
| Remote Mounting | | |
| MB2730R | Remote head kit w/mobile bracket (MBF4 + MBA5) | \$65.00 |
| MB2730R1 | Glass mount remote head kit w/mobile bracket (MBF1+MBF4+MBA5) | \$149.00 |
| MBA5 | Bracket to attach the controller to the MBF-1 | \$40.00 |
| MBF1 | Remote head mount. Adhesive pad and adjustable pivot points holds it securely. Requires MBA5, MBA7 or MBA8. | \$85.00 |
| OPC1156 | Remote head extension cable (3.5m) | \$22.00 |
| Software & Cables | | |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |

ID4100A

D-Star Dual Band Digital Transceiver

SPECS

| | |
|-------------------------|---------------------------------------------------------------------------------------------------------------|
| Frequencies: | TX 144-148, 430-450MHz RX 118-174, 230-550MHz |
| Type of Emission: | F2D, F3E, F7W |
| Modes: | DV, FM, FM-N, AM (RX only) |
| Output Power: | 50W, 15W, 5W |
| Channels: | 1000 regular channels 4 call channels 50 program scan edges 1500 repeater memories 300 GPS memory |
| Dimensions (W x H x D): | |
| Main Unit: | 5.9 x 1.6 x 6.8in |
| Controller: | 4.8 x 1.6 x 1.2in |
| Weight: | |
| Main Unit: | 2.4lb |
| Controller: | 3.5oz |
| Warranty: | 1 Year |



FEATURES

Full dot-matrix display
DV/FM near repeater search function
Built-in GPS
microSD card slot for voice and data storage
Selectable LDC and key backlight color: white, amber, green or blue
Bluetooth® option
Android™ and iOS™ Apps Available
DV fast data mode
Terminal mode and access point mode
The QUICK key allows instant access to menus listing dedicated functions depending on mode
Multiple scan functions for Memory/Bank scan, Full scan, Program scan, Program link scan, Duplex scan Tone scan, and DR scan
CTCSS/DTCS signaling with the split tone functions (analog mode)
8.33 kHz air band channel reception
Auto repeater function

SUPPLIED ACCESSORIES

Hand microphone (HM-207S)
Controller cable (OPC-837)
DC power cable (OPC-345B)
Microphone hanger and spare fuses
Owner's manual

ID4100A

D-Star Dual Band Digital Transceiver

Configurations

| Model | Description | MSRP |
|---------|---------------------------------|----------|
| ID4100A | VHF/UHF dual band D-STAR mobile | \$399.00 |

Accessories

| Model | Description | MSRP |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------|
| Cables | | |
| OPC1529R | Data cable (RS232 to 3.5mm) | \$41.00 |
| OPC2350LU | Smart phone data cable | \$75.00 |
| OPC440 | Microphone extension cable (RJ-45 M/F) (16.4ft) | \$100.00 |
| OPC589 | Microphone adapter cable (8 pin to RJ-45) | \$45.00 |
| OPC647 | Microphone extension cable 8.2ft | \$75.00 |
| Encryption & Internal Modules | | |
| UT137 | Bluetooth unit | \$99.00 |
| External Speakers | | |
| SP30 | 20W large external speaker | \$110.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| Headsets | | |
| VS3 | Compact clippable PTT Bluetooth with earphone via 3.5mm jack for all-day operation | \$149.00 |
| Microphones | | |
| HM154 | Simple microphone for Amateur mobile radios (RJ45) | \$55.00 |
| HM207S | DTMF standard mic ID4100 | \$140.00 |
| HM232 | Hand microphone for ID4100 | \$45.00 |
| Mounting Hardware | | |
| MBF4 | Mounting bracket for the ID5100 | \$35.00 |
| Remote Mounting | | |
| MBA8 | Controller bracket for ID4100A | \$40.00 |
| MBF1 | Remote head mount. Adhesive pad and adjustable pivot points holds it securely. Requires MBA5, MBA7 or MBA8. | \$85.00 |
| OPC1156 | Remote head extension cable (3.5m) | \$22.00 |
| Software & Cables | | |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |

ID5100A

D-Star Dual Band Digital Transceiver

SPECS

| | |
|-------------------------|------------------------------------------------------------------------------------------|
| Frequencies: | TX 144-148, 430-450MHz RX 118-174, 375-550MHz |
| Type of Emission: | F2D, F3E, F7W |
| Modes: | FM, FM-N, DV, AM (receive only) |
| Output Power: | 50W, 15W, 5W selectable |
| Channels: | 1000 regular channels, 4 call channels, 50 program scan edges and 1200 repeater memories |
| Dimensions (W x H x D): | |
| Main Unit: | 5.91x1.57x6.8in |
| Controller: | 7.17x3.21x0.97in |
| Weight: | |
| Main Unit: | 2.87lb |
| Controller: | 9.17oz |
| Warranty: | 1 Year |



FEATURES

- Intuitive touch screen operation
- V/U, V/V, U/U Dual receive
- DV Dualwatch
- GPS receiver
- DV/FM Repeater list function
- Dplus reflector linking
- Built-in CTCSS/DTCS encoder and decoder
- Bluetooth options
- Send pictures over DV mode
- Menu-driven user interface
- Convenient memory contents management using CSV data format
- Speech function announces operating frequency, mode and received callsign (DV mode)
- Enhanced D-PRS functions with object, position, item and weather formats

SUPPLIED ACCESSORIES

- Hand microphone (HM-207)
- Controller cable (OPC1154A 3.5M; 11.4ft)
- Microphone hanger
- CD (CS-5100 and instruction handbook PDF)
- Spare fuse
- Owner's manual

ID5100A

D-Star Dual Band Digital Transceiver

Configurations

| Model | Description | MSRP |
|----------------|----------------------------------------------------------------------------------------------------------|----------|
| ID5100A DELUXE | Dual band, 2m/70cm (144-148/420-450MHz), D-Star mobile radio with MB-A2 remote mounting bracket included | \$514.00 |

Accessories

| Model | Description | MSRP |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------|
| Cables | | |
| OPC1132 | DC power cable (9.8ft) with 2-pin T connector. | \$45.00 |
| OPC1529R | Data cable (RS232 to 3.5mm) | \$41.00 |
| OPC347 | DC power cable (23ft) | \$70.00 |
| OPC440 | Microphone extension cable (RJ-45 M/F) (16.4ft) | \$100.00 |
| OPC589 | Microphone adapter cable (8 pin to RJ-45) | \$45.00 |
| Encryption & Internal Modules | | |
| UT133 | Bluetooth unit | \$99.00 |
| External Speakers | | |
| SP30 | 20W large external speaker | \$110.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| Headsets | | |
| VS3 | Compact clippable PTT Bluetooth with earphone via 3.5mm jack for all-day operation | \$149.00 |
| Microphones | | |
| HM154 | Simple microphone for Amateur mobile radios (RJ45) | \$55.00 |
| HM207 | Control hand microphone (ID-5100) | \$99.00 |
| Mounting Hardware | | |
| MBF4 | Mounting bracket for the ID5100 | \$35.00 |
| Remote Mounting | | |
| MBA2 | Remote head mounting bracket for the ID5100A | \$40.00 |
| MBF1 | Remote head mount. Adhesive pad and adjustable pivot points holds it securely. Requires MBA5, MBA7 or MBA8. | \$85.00 |
| OPC1156 | Remote head extension cable (3.5m) | \$22.00 |
| Software & Cables | | |
| OPC2218LU | Cloning/data cable with USB connector for ID51A/ID31A/5100A/7100 | \$75.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |

D-STAR REPEATERS

Digital Voice Plus Digital Data Combine with D-STAR Repeater Equipment

SPECS

| | |
|---------------|--------------------------------------------------------------------------------------------|
| Frequencies: | IDPR2000V 144-148MHz IDPR4000V 440-450MHz IDPR2D 1240-1300MHZ IDRP2V 1240-1300MHz |
| Modes: | D-STAR Digital Voice, D-STAR data |
| Output Power: | 23cm 10W 2m/70cm 25W |
| Weight: | IDRP2000V/4000V 16 lb 9 oz IDRP2D 13 lb 10 oz IDRP2V 16 lb 9 oz |
| Warranty: | 1 Year |



FEATURES

D-PRS®
Text message
Internet access
Auto ID
Digital voice and location
Rescue tracking
Crossbanding

SUPPLIED ACCESSORIES

DC power cable (OPC1380 supplied with IDRP2C)
Power cable (OPC1309 supplied with IDRP2D/V, 2000V, 4000V)
Control Cable RJ45 Ethernet (OPC-1069A supplied with IDRP2C, IDRP2D/V, 2000V, 4000V)

D-STAR REPEATERS

Digital Voice Plus Digital Data Combine with D-STAR Repeater Equipment

Accessories

| Model | Description | MSRP |
|------------------------------|--------------------------------------|---------|
| Cables | | |
| OPC1069A | Ethernet cable for the IDRP products | \$15.00 |
| OPC1309 | DC cable for IDRP products | \$32.00 |
| OPC1380 | Power cable for the IDRP products | \$62.00 |
| Manuals | | |
| 98815159 | IDRP2 products owner's manual | \$0.00 |
| 98815284 | IDRP2000/4000 owner's manual | \$0.00 |
| Software & Cables | | |
| RSRP3 G3 | Gateway software | \$0.00 |

HF



718

HF All Band Transceiver

SPECS

| | |
|--------------|-------------------------|
| Frequencies: | RX 0.030-29.999999MHz* |
| | TX 1.800-1.999999 MHz** |
| | 3.500-3.999999 MHz** |
| | 7.000-7.300000 MHz |
| | 10.100-10.150000 MHz |
| | 14.000-14.350000 MHz |
| | 18.068-18.168000 MHz |
| | 21.000-21.450000 MHz |
| | 24.890-24.990000 MHz |
| | 28.000-29.700000 MHz |

*Guaranteed 0.5-29.999999MHz

**Varies according to version

| | |
|------------------|------------------------------------|
| Receiver System: | Double conversion |
| Modes: | USB, LSB, CW, RTTY (FSK), AM |
| Output Power: | SSB, CW, RTTY, 2-100W; AM 2-40W |
| DSP Type: | AF (optional) |
| Channels: | 101 (99 regular, 2 scan edges) |
| Weight: | 8 lb 6 oz |
| Number in Case: | 2 |
| Warranty: | 1 Year |



FEATURES

One touch band switching
Simple to use
CW keyer built-in
12V operation
Direct frequency input
VOX built-in
Voice synthesizer optional (UT-102)
General coverage receiver
Front mounted speaker

SUPPLIED ACCESSORIES

Microphone (HM36)
DC power cable (OPC025A)
Plug-in DSP (UT106)
Owner's manual

718

HF All Band Transceiver

Configurations

| Model | Description | MSRP |
|--------|----------------------------------------------------------------------|----------|
| 718 62 | 100W HF transceiver with AF DSP | \$800.00 |
| 718E | 100W HF transceiver - export only version - full transmit, no AF DSP | \$720.00 |

Accessories

| Model | Description | MSRP |
|------------------------------------------|----------------------------------------------------------------------------------------------------|------------|
| Amplifier | | |
| PW1U 01 | 1KW Linear Amp | \$7,810.00 |
| Antenna Tuners | | |
| AH4 | Automatic antenna tuner (long wire/AH2B) | \$430.00 |
| Antennas | | |
| AH2B | Antenna element/base | \$599.00 |
| AH710 | Folded dipole antenna with an SO-239 connector. Covers 1.9 to 30MHz band. Length is approx 80.3ft. | \$430.00 |
| AH740 | Relay-driven compact automatic tuning antenna 2.5MHz-29.999MHz | \$2,315.00 |
| Cables | | |
| OPC025D | 12V DC power cord with 6-pin connector for HF radios (718/706MK2/G/756PRO/2) | \$45.00 |
| OPC2321 | Control cable adapter to 4 pin type for AH740 | \$175.00 |
| OPC2361 | DC power cord with 25A fuse for 718/78/7300 | \$66.00 |
| OPC599 | Cable adapter converts 13-pin ACC connector to 7-pin & 8-pin ACC connector | \$80.00 |
| Encryption & Internal Modules | | |
| UT106 | DSP unit | \$195.00 |
| External Speakers | | |
| SP23 | External speaker with 4 audio filters; headphone jack (5W) | \$330.00 |
| SP33 | Base station speaker (4Ohm) | \$120.00 |
| SP34 | Base station high quality speaker with internal audio filters | \$465.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| Filters | | |
| CR338 | TCXO, high stability crystal Unit, ± 0.5 ppm (-10°C to +50°C) IC-707/718/77/78/746/746PRO/7400 | \$105.00 |
| Manuals | | |
| 94413342 | 718 service manual - CD | \$0.00 |
| 97713343 | 718 service manual hardcopy | \$0.00 |
| 98813344 | 718 owner's manual | \$0.00 |
| Microphones | | |
| HM219 | Hand microphone 7300/7610 | \$55.00 |
| SM30 | Compact desktop microphone with low cut function | \$195.00 |
| SM50 | Desktop unidirectional microphone with up/down switches and low cut function | \$400.00 |
| Mounting Hardware | | |
| MB23 | Carry handle and mounting hardware for the IC-718/77/707/821H/R8500/R75 | \$20.00 |

718

HF All Band Transceiver

7100

HF/VHF/UHF Transceiver

SPECS

Frequencies: RX 0.030-199.999, 400.000-470.000MHz*
TX 1.800-1.999; 3.500-3.999;
5.255-5.405*; 7.000-7.300;
10.100-10.150; 14.000-14.350;
18.068-18.168; 21.000-21.450;
24.890-24.990; 28.000-29.700;
50.000-54.000; 144.000-148.000;
430.000-450.000MHz
*Some frequency bands are not guaranteed

Receiver System: SSB/AM/FM/DV
Modes: USB, LSB, CW, RTTY, AM, DV,
FM, WFM (RX only)

Output Power (at 13.8V DC):

| | HF/50MH Z | 144MH Z | 430/440MH Z |
|-----------------------|--------------|------------|----------------|
| SSB/CW.RTTF/FM/D V | 2-100W | 2-50W | 2-35W |
| AM | 1-30W | - | - |

DSP Type: 32-bit floating point IF DSP
Channels: 505 (495 regular, 4 call, 6 scan
edges, 900 D-STAR repeater
channels)
Weight: Main unit 5.1 lb; Controller 1.1lb

FEATURES

Touch screen control portal
Angled display
D-STAR READY
Digital features controlled by the IF DSP
Built-in SD Card Slot for voice storage and data cloing
Dual DSP chips deliver versatile digital processing performance
Muilt-in RTTV demodulator and decoder
Multi-function meter
SWR graphic display
DSP controller RF speech compressor
Voice recording and playback functions
±0.5ppm high frequency stability
Optional RS-BA1 IP control remote control software



SUPPLIED ACCESSORIES

Hand microphone (HM198)
DC power cable
Separation cable (OPC2253)
USB cable
ACC cable (13-pin)
CW keyer plug
Spare fuses
Ferrite bead
Owner's manual

7100

HF/VHF/UHF Transceiver

Configurations

| Model | Description | MSRP |
|---------|----------------------------------|------------|
| 7100 02 | HF/6m/2m/70cm mobile transceiver | \$1,325.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|-------------------------------------------------------------------------------------------------------------|------------|
| Amplifier | | |
| PW1U 01 | 1KW Linear Amp | \$7,810.00 |
| Antenna Tuners | | |
| AH4 | Automatic antenna tuner (long wire/AH2B) | \$430.00 |
| Antennas | | |
| AH2B | Antenna element/base | \$599.00 |
| AH740 | Relay-driven compact automatic tuning antenna 2.5MHz-29.999MHz | \$2,315.00 |
| Cables | | |
| OPC1529R | Data cable (RS232 to 3.5mm) | \$41.00 |
| OPC2321 | Control cable adapter to 4 pin type for AH740 | \$175.00 |
| OPC589 | Microphone adapter cable (8 pin to RJ-45) | \$45.00 |
| OPC599 | Cable adapter converts 13-pin ACC connector to 7-pin & 8-pin ACC connector | \$80.00 |
| External Speakers | | |
| SP23 | External speaker with 4 audio filters; headphone jack (5W) | \$330.00 |
| SP33 | Base station speaker (4Ohm) | \$120.00 |
| SP34 | Base station high quality speaker with internal audio filters | \$465.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| Manuals | | |
| 94416603 | 7100 service manual - CD | \$28.97 |
| 98816601 | 7100 owner's manual | \$0.00 |
| Microphones | | |
| HM151 | Remote control microphone (7000/7100) | \$145.00 |
| HM198 | Hand microphone for 7100 | \$55.00 |
| SM30 | Compact desktop microphone with low cut function | \$195.00 |
| SM50 | Desktop unidirectional microphone with up/down switches and low cut function | \$400.00 |
| Mounting Hardware | | |
| MB62 | Main Unit mounting bracket for the 706 Series, 703 Series, 7000 & 7100 | \$50.00 |
| Remote Mounting | | |
| MBA1 | Controller bracket for 7100 | \$40.00 |
| MBF1 | Remote head mount. Adhesive pad and adjustable pivot points holds it securely. Requires MBA5, MBA7 or MBA8. | \$85.00 |
| OPC2253 | 3.5m (11ft) separation cable | \$75.00 |
| OPC2254 | 5m (16ft) separation cable | \$95.00 |
| Software & Cables | | |
| CS7100 | Programming software for 7100 | \$50.00 |

7100

HF/VHF/UHF Transceiver

Accessories

| Model | Description | MSRP |
|-----------|------------------------------------------------------------------|----------|
| OPC2218LU | Cloning/data cable with USB connector for ID51A/ID31A/5100A/7100 | \$75.00 |
| RC28 | Remote control USB encoder | \$370.00 |
| RS-BA1 V2 | IP remote control software for amateur radios | \$149.00 |

7300

HF/50MHz Transceiver

SPECS

| | | |
|------------------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequencies: | RX | 0.030-74.800MHz* |
| | TX | 1.800-1.999; 3.500-3.999; 5.255-5.405; 7.000-7.300; 10.100-10.150; 14.000-14.350; 18.068-18.168; 21.000-21.450; 24.890-24.990; 28.000-29.700; 50.000-54.000MHz |
| Receiver System: | | Direct sampling superheterodyne |
| Modes: | | SSB, CW, RTTY, AM, FM |
| Output Power: | | 100W (25W AM) |
| DSP Type: | | FPGA |
| Channels: | | 101 (99 regular, 2 scan edges) |
| Weight: | | 9.26 lb |
| Number in Case: | | 2 |
| Warranty: | | 1 Year |



FEATURES

Approximately 97dB RMDR
15 discrete band-pass filters
Large touch screen with waterfall function
Real-time spectrum scope
Built-in automatic antenna tuner
SD memory card slot for saving data
Cooling fan system
Multi-function meter
CW functions: full break-in, CW reverse, CW auto tuning

SUPPLIED ACCESSORIES

Microphone (HM219)
DC power cable
Spare fuses
Owner's manual

7300

HF/50MHz Transceiver

Configurations

| Model | Description | MSRP |
|---------|---------------------------------------------------|------------|
| 7300 02 | HF/6m transceiver with an IF-DSP and internal ATU | \$1,699.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|----------------------------------------------------------------------------------------------------|------------|
| Amplifier | | |
| PW1U 01 | 1KW Linear Amp | \$7,810.00 |
| Antenna Tuners | | |
| AH4 | Automatic antenna tuner (long wire/AH2B) | \$430.00 |
| Antennas | | |
| AH2B | Antenna element/base | \$599.00 |
| AH710 | Folded dipole antenna with an SO-239 connector. Covers 1.9 to 30MHz band. Length is approx 80.3ft. | \$430.00 |
| AH740 | Relay-driven compact automatic tuning antenna 2.5MHz-29.999MHz | \$2,315.00 |
| Cables | | |
| OPC2321 | Control cable adapter to 4 pin type for AH740 | \$175.00 |
| OPC2361 | DC power cord with 25A fuse for 718/78/7300 | \$66.00 |
| OPC599 | Cable adapter converts 13-pin ACC connector to 7-pin & 8-pin ACC connector | \$80.00 |
| External Speakers | | |
| SP23 | External speaker with 4 audio filters; headphone jack (5W) | \$330.00 |
| SP33 | Base station speaker (4Ohm) | \$120.00 |
| SP34 | Base station high quality speaker with internal audio filters | \$465.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| SP38 | 5W external speaker for HF radios | \$210.00 |
| SP41 | 5W external speaker for HF radios | \$299.00 |
| Microphones | | |
| HM219 | Hand microphone 7300/7610 | \$55.00 |
| SM30 | Compact desktop microphone with low cut function | \$195.00 |
| SM50 | Desktop unidirectional microphone with up/down switches and low cut function | \$400.00 |
| Mounting Hardware | | |
| MB118 | Mounting bracket for the IC-7200 | \$50.00 |
| MB123 | Carrying handle for 7300/9100/7410 | \$35.00 |
| Software & Cables | | |
| RC28 | Remote control USB encoder | \$370.00 |
| RS-BA1 V2 | IP remote control software for amateur radios | \$149.00 |

9700

HF/VHF/UHF Transceiver

SPECS

Frequencies: 144.000-148.000, 430.000-450000, 1240.000-1300.000MHz
Modes: SSB, CW, RTTY, AM, FM, DV, DD
Number of channels: 107 (99 Simplex + 6 Program scan edges + 2 CALL) x 3 bands, 99 (Satellite), 2500 (DR function)

Output power:

| HF/50MHz | 144MHz | 430/440MHz | 1200MHz |
|----------------------|-----------|--------------|------------|
| SSB/CW/FM/RTTY/DV/DD | 0.5-100W | 0.5-75W | 0.1-10W |
| AM | 0.125-25W | 0.125-18.75W | 0.025-2.5W |

Weight (approx): 10.4lb
Number in Case: 2
Warranty: 1 Year



FEATURES

RF direct sampling receiver for 2m and 70cm
Down conversion for 23cm that is between 311-371MHz
Supports CW/AM/SSB/SM/RTTY and D-STAR DV and DD modes
Digital Data (DD) mode provides 128 kbps data communication
D-STAR Terminal and Access Point mode (RS-MS3A/W)
Dual D-STAR receive (decodes two voice streams simultaneously)
Intuitive 4.3" Color touch screen display
Real-Time Spectrum Scope and Waterfall Display
Full duplex operation/Dual Watch (no V/V or U/U Capability)
Main or Sub-Band Scope (Center/Fix mode +/-500KHz Center Mode)
Independent Receiver, Full Duplex Operation
Audio Scope Function
Comprehensive Menus for Satellite Operation
Normal and Reverse Tracking Functions
AFC Function
Up to 99 Satellite memory Channels

SUPPLIED ACCESSORIES

Hand microphone (HM219)
DC power cable
Owner's manual

9700

HF/VHF/UHF Transceiver

Configurations

| Model | Description | MSRP |
|---------|---------------------|------------|
| 9700 12 | VHF/UHF transceiver | \$2,200.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|------------------------------------------------------------------------------|----------|
| Cables | | |
| OPC2350LU | Smart phone data cable | \$75.00 |
| External Speakers | | |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| SP38 | 5W external speaker for HF radios | \$210.00 |
| SP41 | 5W external speaker for HF radios | \$299.00 |
| Microphones | | |
| HM219 | Hand microphone 7300/7610 | \$55.00 |
| SM30 | Compact desktop microphone with low cut function | \$195.00 |
| SM50 | Desktop unidirectional microphone with up/down switches and low cut function | \$400.00 |
| Mounting Hardware | | |
| MB118 | Mounting bracket for the IC-7200 | \$50.00 |
| MB123 | Carrying handle for 7300/9100/7410 | \$35.00 |
| Software & Cables | | |
| RS-BA1 V2 | IP remote control software for amateur radios | \$149.00 |

7610

HF/50MHz Transceiver

SPECS

| | |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequencies: | RX 0.030-60.000MHz* TX 1.800-1.999; 3.500-3.999; 5.255-5.405**, 7.000-7.300; 10.100-10.150; 14.000-14.350; 18.068-18.168; 21.000-21.450; 24.890-24.990; 28.000-29.700; 50.000-54.000MHz * Guaranteed range: 0.500-29.999, 50.000- 54.000 MHz **Some frequency bands are not guaranteed. |
| Receiver System: | Direct Sampling Superheterodyne |
| Modes: | USB, LSB, CW, RTTY, PSK31/63, AM, FM |
| Output Power: | SSB/CW/FM/RTTY/PSK: 1-100 W, AM: 1-25W |
| Channels: | 101 (99 regular, 2 scan edges) |
| Weight: | 18.7lb |
| Number in Case: | 1 |
| Warranty: | 1 Year |



FEATURES

110dB RMDR to pull weak signals
Independent dual receiver
DIGI-SEL preselectors
Digital-UP-Conversion (DUC) for clean TX
Built-in automatic antenna tuner
7" color display with touch screen function
Dual receivers, dual spectrum scopes
SD card slot and USB port for saving data
I/Q signal output

SUPPLIED ACCESSORIES

Microphone (HM219)
DC power cable
Spare fuses
Owner's manual

7610

HF/50MHz Transceiver

Configurations

| Model | Description | MSRP |
|-------|------------------------------------------|------------|
| 7610 | 100W HF/50MHz amateur radio base station | \$4,278.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|----------------------------------------------------------------------------------------------------|------------|
| Amplifier | | |
| PW1U 01 | 1KW Linear Amp | \$7,810.00 |
| Antenna Tuners | | |
| AH4 | Automatic antenna tuner (long wire/AH2B) | \$430.00 |
| Antennas | | |
| AH2B | Antenna element/base | \$599.00 |
| AH710 | Folded dipole antenna with an SO-239 connector. Covers 1.9 to 30MHz band. Length is approx 80.3ft. | \$430.00 |
| AH740 | Relay-driven compact automatic tuning antenna 2.5MHz-29.999MHz | \$2,315.00 |
| Cables | | |
| OPC2321 | Control cable adapter to 4 pin type for AH740 | \$175.00 |
| External Speakers | | |
| SP23 | External speaker with 4 audio filters; headphone jack (5W) | \$330.00 |
| SP33 | Base station speaker (4Ohm) | \$120.00 |
| SP34 | Base station high quality speaker with internal audio filters | \$465.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| SP38 | 5W external speaker for HF radios | \$210.00 |
| SP41 | 5W external speaker for HF radios | \$299.00 |
| Microphones | | |
| HM219 | Hand microphone 7300/7610 | \$55.00 |
| SM30 | Compact desktop microphone with low cut function | \$195.00 |
| SM50 | Desktop unidirectional microphone with up/down switches and low cut function | \$400.00 |
| Mounting Hardware | | |
| MB121 | Carrying handle for 7610 | \$33.00 |
| Software & Cables | | |
| RC28 | Remote control USB encoder | \$370.00 |
| RS-BA1 V2 | IP remote control software for amateur radios | \$149.00 |

7700

HF/50MHz Transceiver

SPECS

| | |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequencies: | RX 0.030-60.000MHz* TX 1.800-1.999; 3.500-3.999; 5.3305, 5.3465, 5.3665, 5.3715, 5.4035**; 7.000-7.300; 10.100-10.150; 14.000-14.350; 18.068-18.168; 21.000-21.450; 24.890-24.990; 28.000-29.700; 50.000-54.000MHz *Some frequency ranges are not guaranteed. **Carrier point frequency. USB mode only. |
| Receiver System: | Double conversion super- heterodyne system |
| Modes: | USB, LSB, CW, RTTY, PSK31, AM, FM |
| Output Power: | SSB, CW, RTTY, PSK31, FM: 5- 200W; AM: 5-50W |
| Channels: | 101 (99 regular, 2 scan edges) |
| Weight: | 49.6lb |
| Number in Case: | 1 |
| Warranty: | 1 Year |



FEATURES

- +40dBm IP3Dual watch RX (same band only)
- 7-Inch wide color TFT LCD
- Multi function spectrum scope
- Triple band stack registers
- Independent Digi-Sel controls
- Independent auto tune
- Digital voice recorder controls
- Retractable controls
- 200W output power
- Headphone jack
- Independent AGC settings
- 3 roofing filters - 3kHz, 6kHz, 15kHz
- Two USB ports to connect keyboard and/or memory stick

SUPPLIED ACCESSORIES

- ACC plugs
- AC power cable (OPC510)
- Speaker plugs
- Rack mount handles
- Power plug
- Key and pin plug
- Spare fuses
- Owner's manual

7700

HF/50MHz Transceiver

Configurations

| Model | Description | MSRP |
|---------|-----------------------------------------------|------------|
| 7700 12 | 200W HF + 6m transceiver with single receiver | \$7,800.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|------------------------------------------------------------------------------|------------|
| Amplifier | | |
| PW1U 01 | 1KW Linear Amp | \$7,810.00 |
| Cables | | |
| OPC510 | AC power cable for the 7800/7700 | \$30.00 |
| External Speakers | | |
| SP23 | External speaker with 4 audio filters; headphone jack (5W) | \$330.00 |
| SP33 | Base station speaker (4Ohm) | \$120.00 |
| SP34 | Base station high quality speaker with internal audio filters | \$465.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| SP38 | 5W external speaker for HF radios | \$210.00 |
| SP41 | 5W external speaker for HF radios | \$299.00 |
| Manuals | | |
| 94415352 | 7700 CD service manual | \$0.00 |
| 97715351 | 7700 service manual hardcopy | \$0.00 |
| 98815353 | 7700 owner's manual | \$0.00 |
| Microphones | | |
| SM30 | Compact desktop microphone with low cut function | \$195.00 |
| SM50 | Desktop unidirectional microphone with up/down switches and low cut function | \$400.00 |
| Software & Cables | | |
| RC28 | Remote control USB encoder | \$370.00 |
| RS-BA1 V2 | IP remote control software for amateur radios | \$149.00 |

7851

HF/50MHz Transceiver

SPECS

| | |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequencies: | RX 0.030-60.000MHz* TX 1.800-1.999; 3.500-3.999; 5.3305, 5.3465, 5.3665, 5.3715, 5.4035**; 7.000-7.300; 10.100-10.150; 14.000-14.350; 18.068-18.168; 21.000-21.450; 24.890-24.990; 28.000-29.700; 50.000-54.000MHz *Some frequency ranges are not guaranteed. **Carrier point frequency.. |
| Receiver System: | Double conversion super- heterodyne system |
| Modes: | USB, LSB, CW, RTTY, PSK31, AM, FM |
| Output Power: | SSB, CW, RTTY, PSK31, FM, AM 5 - 50W |
| Channels: | 101 (99 regular, 2 scan edges) |
| Weight: | 55lb |
| Number in Case: | 1 |
| Warranty: | 2 Year |



FEATURES

- 1.2kHz "optimum" roofing filter
- Dual scope function
- High resolution spectrum waterfall
- '+40dBm IP37-Inch Wide Color TFT LCD
- Dual receivers
- Dual receive controls
- Multiple meter readouts
- Multiple spectrum displays
- Triple band stack registers
- Four 32 bit floating point DSP units
- Independent Digi-Sel controls
- Dual digital twin PassBand tuning
- More dual receive controls
- Dual VFO tuning knobs
- Independent auto tune
- Digital voice recorder controls
- Retractable controls
- 200W output power
- CF card slot
- Headphone jack
- Independent AGC settings
- 3 roofing filters - 3kHz, 6kHz, 15kHz

SUPPLIED ACCESSORIES

- CF memory card
- AC power cable (built-in)
- Rack mount handles
- Spare fuses
- Plugs & connectors
- Owner's manual

7851

HF/50MHz Transceiver

Configurations

| Model | Description | MSRP |
|---------|------------------------------------------------------------------------------------------------------|-------------|
| 7851 02 | 200W HF + 6m transceiver with 2 independent receivers, internal power supply and antenna tuner (ATU) | \$16,000.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|------------------------------------------------------------------------------|------------|
| Amplifier | | |
| PW1U 01 | 1KW Linear Amp | \$7,810.00 |
| External Speakers | | |
| SP33 | Base station speaker (40hm) | \$120.00 |
| SP34 | Base station high quality speaker with internal audio filters | \$465.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| SP38 | 5W external speaker for HF radios | \$210.00 |
| SP41 | 5W external speaker for HF radios | \$299.00 |
| Microphones | | |
| SM30 | Compact desktop microphone with low cut function | \$195.00 |
| SM50 | Desktop unidirectional microphone with up/down switches and low cut function | \$400.00 |
| Software & Cables | | |
| RC28 | Remote control USB encoder | \$370.00 |
| RS-BA1 V2 | IP remote control software for amateur radios | \$149.00 |

78

HF Transceiver for Export Only

SPECS

| | |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Frequencies: | RX 0.030-29.999999MHz** TX 1.6-29.999999MHz*** **Guaranteed range: 0.5-29.999999MHz ***Not Guaranteed for some frequency bands |
| Receiver System: | Double conversion |
| Modes: | USB, LSB, CW, RTTY (FSK), AM |
| Output Power: | SSB, CW, RTTY 2-100W; AM 2-40W |
| DSP Type: | None |
| Channels: | 99 (Duplex) +1 (Call channel) |
| Weight: | 8 lb 6 oz |
| Number in Case: | 2 |
| Warranty: | 1 Year |



FEATURES

- Durable, powerful construction
- Direct keyboard entry
- Large easy to read LCD
- Ample 99 channels with 8-digit channel name capability
- Superior basic performance
- Front mounted loud speaker
- High frequency stability
- Flexible filter selection
- VFO mode operation

SUPPLIED ACCESSORIES

- Hand microphone (HM36)
- DC power cable (OPC025A)
- Spare fuses
- Owner's manual

78

HF Transceiver for Export Only

Configurations

| Model | Description | MSRP |
|-------|--------------------------------------------------|----------|
| 78 41 | 100W HF transceiver WITHOUT AF DSP - EXPORT ONLY | \$720.00 |

Accessories

| Model | Description | MSRP |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Antenna Tuners | | |
| AH4 | Automatic antenna tuner (long wire/AH2B) | \$430.00 |
| AT130 | Auto antenna tuner M710/IC-78 | \$690.00 |
| MN100 | Antenna matcher. Matches the transceiver to a dipole antenna. Covers all HF bands from 1.5 to 30MHz. Two 8m antenna wires come standard. | \$480.00 |
| MN100L | Antenna matcher. Matches the transceiver to a long wire antenna. Covers all HF bands from 1.5 to 30mhz. One 15m antenna comes standard. | \$455.00 |
| Antennas | | |
| AH2B | Antenna element/base | \$599.00 |
| AH710 | Folded dipole antenna with an SO-239 connector. Covers 1.9 to 30MHz band. Length is approx 80.3ft. | \$430.00 |
| AH740 | Relay-driven compact automatic tuning antenna 2.5MHz-29.999MHz | \$2,315.00 |
| Cables | | |
| OPC025D | 12V DC power cord with 6-pin connector for HF radios (718/706MK2/G/756PRO/2) | \$45.00 |
| OPC2321 | Control cable adapter to 4 pin type for AH740 | \$175.00 |
| OPC2361 | DC power cord with 25A fuse for 718/78/7300 | \$66.00 |
| Encryption & Internal Modules | | |
| UT106 | DSP unit | \$195.00 |
| External Speakers | | |
| SP23 | External speaker with 4 audio filters; headphone jack (5W) | \$330.00 |
| SP33 | Base station speaker (4Ohm) | \$120.00 |
| SP34 | Base station high quality speaker with internal audio filters | \$465.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| Filters | | |
| CR338 | TCXO, high stability crystal Unit, ± 0.5 ppm (-10°C to +50°C) IC-707/718/77/78/746/746PRO/7400 | \$105.00 |
| Manuals | | |
| 94413419 | 78 service manual - CD | \$0.00 |
| 97713420 | 78 service manual hardcopy | \$0.00 |
| 98813421 | 78 owner's manual | \$0.00 |
| Microphones | | |
| SM30 | Compact desktop microphone with low cut function | \$195.00 |
| SM50 | Desktop unidirectional microphone with up/down switches and low cut function | \$400.00 |
| Mounting Hardware | | |
| MB23 | Carry handle and mounting hardware for the IC-718/77/707/821H/R8500/R75 | \$20.00 |

78

HF Transceiver for Export Only

Accessories

| Model | Description | MSRP |
|-------------------------------|-------------------------------------------------------------------------------------------------------------|---------|
| <i>Remote Mounting</i> | | |
| MBF1 | Remote head mount. Adhesive pad and adjustable pivot points holds it securely. Requires MBA5, MBA7 or MBA8. | \$85.00 |

Receivers



R6

Communications Receiver

SPECS

| | |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequencies: | 0.100-1309.995MHz* *Blocked cellular frequency 824-849 and 869-894MHz **Unblocked for sale to Federal Government, export, or authorized end users only |
| Display Type: | LCD |
| Band Scope: | No |
| Receiver Type: | Triple conversion superheterodyne |
| Modes: | AM, FM, WFM |
| Channels: | 1300 (50 scan edges and 200 auto memory write scan) |
| Auto Memory: | Yes |
| Alphanumeric Display: | 6 Character |
| PC Programming: | Optional with CS-R6 software |
| PC Controllable: | Yes |
| Antenna Connector: | SMA |
| Weight: | 7.1oz |
| Number in Case: | 5 |
| Warranty: | 1 Year |



FEATURES

Wideband coverage
100 channels per second high speed scan
15 hours of continuous receive capability
VSC (Voice Squelch Control)
150mW audio output power
Earphone cord antenna for AM aviation and FM broadcasts
Duplex operation monitor
Priority watch function
Built-in audio low pass filter

SUPPLIED ACCESSORIES

Antenna (FAS270C)
Belt clip
Hand strap
Owner's manual

R6

Communications Receiver

Configurations

| Model | Description | MSRP |
|----------|--------------------------------------------------------------------------------------------------------------------|----------|
| R6 SPORT | Scanning receiver. Blocked version for consumer purchase. No supplied battery or charger. Requires 2 AA batteries. | \$225.00 |
| R6E | Unblocked receiver for Federal/Export Only. No supplied battery or charger. Requires 2 AA batteries. | \$225.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|---------------------------------------------------------------|---------|
| Antennas | | |
| AD92SMA | Antenna connector adapter to connect a BNC-type antenna | \$20.00 |
| FAS270C | Wideband RX antenna (SMA) | \$35.00 |
| Chargers | | |
| CP18A | Cigarette lighter cable 12V | \$0.00 |
| Manuals | | |
| 94415532 | R6 CD service manual | \$0.00 |
| 97715530 | R6 hardcopy service manual | \$0.00 |
| 98815531 | R6 owner's manual | \$0.00 |
| Microphones | | |
| SP27 | Acoustic tube earphone with a clip (3.5mm) | \$35.00 |
| SP-AT1 | Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape) | \$31.50 |
| Software & Cables | | |
| CSR6 | Programming software fo R6 | \$58.00 |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |

R30

Communications Receiver

SPECS

| | |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Frequencies: A Band | 0.100000-821.999990, 851.000000-866.999990, 896.000000-3304.999990MHz* |
| B Band | 108.000000-520.000000MHz |
| *Depending on the receiver version. 0.100000-3304.999990MHz guaranteed. | |
| Display Type: | LCD |
| Band Scope: | Yes |
| Receiver Type: | Triple conversion superheterodyne + Down converter |
| Modes: A Band | |
| ≤1300 MHz | FM, FM-N, WFM, AM, AM-N, SSB, CW, D-STAR (DV), P25, dPMR, NXDN, DCR |
| >1300 MHz | FM, FM-N, WFM, AM, AM-N |
| B Band | FM, AM, D-STAR (DV), P25, dPMR, NXDN, DCR |
| Channels: | 2000 regular (100 groups), 200 auto memory write scan, 100 skip, 300 GPS memories |
| Auto Memory: | Yes |
| Alphanumeric Display: | 8 Character |
| PC Programming: | Optional with CS-R30 software |
| PC Controllable: | Yes |
| Antenna Connector: | SMA |
| Weight: | 7.1oz |
| Number in Case: | 5 |
| Warranty: | 1 Year |

FEATURES

Decodes digital including P25, NXDN™, D-STAR
RX analog including USB, LSB, CW, AM, FM & WFM
Receive on different bands and different modes (i.e. monitor HF and UHF signals simultaneously)
Scan for other active channels on the B band while receiving the main signal on the A band
Record audio while in the Dualwatch mode onto a microSD card
Recording/playback of received audio, RX history log, radio settings and GPS logger data can all be loaded onto the microSD card
Scans approximately 200 channels per second in the A band and 150 channels per second in the B band
Variety of scan functions:

- Near station scan
- Auto memory write scan
- Priority scan
- Tone scan
- Program scan
- Memory scan
- Memory mode scan
- Group scan
- Group link scan

2.3" large LDC with intuitive user interface
Band scope function
Speech function reads out operating frequency and mode
8-character channel names DTCS and CTCSS tone squelch
RF gain control (10 steps) ATT function (3 steps)
Key lock function Monitor function
Power save function (3 steps) Clock



SUPPLIED ACCESSORIES

Antenna
Battery, BP287
Belt clip, MB133
Charger, BC223 + BC123SA
USB cable for charging and data transfer
Handstrap
Owner's manual

R30

Communications Receiver

Configurations

| Model | Description | MSRP |
|--------|------------------------------------------------------------------|----------|
| R30 16 | Blocked receiver handheld w/dual receive & dual band recording | \$725.00 |
| R30 20 | Unblocked receiver handheld w/dual receive & dual band recording | \$725.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|------------------------------------------------------------------------------------|----------|
| Batteries | | |
| BP287 | 2800mAh li-ion 7.2V battery | \$150.00 |
| BP293 | Battery case 6 x AA | \$60.00 |
| Belt Clips | | |
| MB133 | Alligator type belt clip | \$17.00 |
| Carrying Cases | | |
| LC189 | R30 carrying case | \$30.00 |
| Chargers | | |
| BC123SA | AC adapter for rapid chargers; 100-240V with US style plug | \$25.00 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |
| BC223 | Rapid charger for R30; 100-240V with a US style plug | \$70.00 |
| Headsets | | |
| VS3 | Compact clippable PTT Bluetooth with earphone via 3.5mm jack for all-day operation | \$149.00 |
| Microphones | | |
| SP40 | Earphone with 3.5mm plug | \$30.00 |
| Miscellaneous | | |
| MSD CARD | 32GB micro SD card | \$30.00 |
| Software & Cables | | |
| CSR30 | Programming software for R30 | \$95.00 |

R8600

Communications Receiver

SPECS

| | |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------|
| RX Frequencies: | 10kHz – 3GHz Decodes digital including P25, NXDN™, D-STAR RX analog including USB, LSB, FSK, CW, AM, S-AM, FM & WFM |
| Channels: | 2000 with 100 groups 100 scan skip channels 50 pairs scan edges |
| Versions: | Cellular frequencies blocked or unblocked |
| Warranty: | 1 Year |



FEATURES

Bandpass filters:
11 in the HF bands
13 in the VHF/UHF bands

FPGA processing provides clarity and accuracy of received signals

Real-time spectrum scope

Waterfall screen

4.3" color display

Touch screen function

RSSI

SD card slot for received log, decode log and voice recording

Screen capture function saves a screen shot in PNG or BMP format

I/Q signal output for use with future firmware upgrade and third-party SDR software and/or external decoding

Remote control function through IP network of USB cable

Scans up to 100 channels per second in memory scan mode

Three antenna connectors: SO-239, photo (RCA), type-N

Clock and NTP FUNCTION

Center tuning meter and digital auto frequency control (AFC) for FM, WFM and digital modes

Voice synthesizer function

Audio tone functions: HPF/LPF, bass, treble and de-emphasis

Decode multiple digital code used in digital mode

IP+ function improves 3rd order intercept point performance

Main dial friction adjustment

Dial lock and panel lock

CI-V remote control commands

SUPPLIED ACCESSORIES

DC power cable
Plugs and fuses
Owner's manual

R8600

Communications Receiver

Configurations

| Model | Description | MSRP |
|----------|-----------------------------------------------------------------|------------|
| R8600 02 | Blocked super wideband 10 kHz to 3 GHz communication receiver | \$3,000.00 |
| R8600 04 | Unblocked super wideband 10 kHz to 3 GHz communication receiver | \$3,000.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|----------------------------------------------------------------------------------------------------|----------|
| Antennas | | |
| AH710 | Folded dipole antenna with an SO-239 connector. Covers 1.9 to 30MHz band. Length is approx 80.3ft. | \$430.00 |
| AH8000 | Discone antenna wideband RX TX 100-3300MHz | \$340.00 |
| Chargers | | |
| AD55NS | 100-240V power supply for the R8600 with a US plug | \$75.00 |
| External Speakers | | |
| SP23 | External speaker with 4 audio filters; headphone jack (5W) | \$330.00 |
| SP39AD | External speaker with 15V/2A power supply for the R8600 | \$325.00 |
| Mounting Hardware | | |
| MB123 | Carrying handle for 7300/9100/7410 | \$35.00 |
| Software & Cables | | |
| CSR8600 | R8600 programming software | \$95.00 |
| RSR8600 | Remote control software | \$199.00 |

R9500

Communications Receiver

SPECS

| | |
|-----------------------|----------------------------------------------------------------------------------------------|
| Frequencies: | 0.005-3335.000MHz* *Cellular bands are blocked in U.S.A. version |
| Display Type: | TFT LCD (800x480) |
| Band Scope: | Multi-Function Spectrum Scope |
| Receiver Type: | Super heterodyne |
| Modes: | USB, LSB, CW, FSK, AM, FM, WFM, P25* (*optional UT-122 Required) |
| Channels: | 1220 (1000 regular, 100 auto memory write channels, 100 memory scan skip, and 20 scan edges) |
| Scan Edges: | 20 Pair |
| AFC: | Yes (FM/WFM mode only) |
| VSC: | Yes |
| Alphanumeric Display: | Yes |
| PC Programming: | Yes |
| PC Controllable: | Yes |



| | |
|--------------------|-----------------------------|
| TCSS Tone: | Standard |
| Attenuation: | 3 levels (10dB, 20dB, 30dB) |
| Power Supply: | 100V/120V/230V/240V AC |
| Antenna Connector: | 4 (SO-239, RCA, 2 type-N) |
| Weight: | 44.1lb |
| Number in Case: | 1 |
| Warranty: | 1 Year |

FEATURES

Wideband coverage
+40dBm 3rd order intercept point and 109dB dynamic range*
(*At 14.1MHz)
Multi-function high performance spectrum scope
±0.05ppm high frequency stability
±3dB* accuracy of dBμ/dBμ(emf) /dBm meter
(*10 to 70dBμ signal between 100kHz to 3335MHz at 25°C)
SSB/CW/AM mode auto tuning function
Optional P25 digital mode reception
Professional grade operation, functionality and build

SUPPLIED ACCESSORIES

AS power cable
Carrying handles
RCA plugs
DC power plug
ACC plugs
Speaker plugs
Spare fuses
Owner's manual

R9500

Communications Receiver

Configurations

| Model | Description | MSRP |
|----------|---------------------------------------|-------------|
| R9500 02 | Blocked version for consumer purchase | \$16,000.00 |
| R9500 06 | Unblocked for Federal/Export Only | \$17,500.00 |

Accessories

| Model | Description | MSRP |
|--------------------------|---------------------------------------------------------------|----------|
| Antennas | | |
| AH8000 | Discone antenna wideband RX TX 100-3300MHz | \$340.00 |
| External Speakers | | |
| SP34 | Base station high quality speaker with internal audio filters | \$465.00 |
| Manuals | | |
| 98815256 | R9500 owner's manual | \$0.00 |

Discontinued Radios



V80

VHF FM Transceiver is discontinued and no longer available from Icom. Icom does still sell the below compatible accessories

SPECS

| | |
|--------------------|-----------------------------------------------------------------|
| Frequencies: | TX 144-148MHz RX 136-174MHz* *Guaranteed range 144-148MHz |
| Receiver System: | Double conversion |
| Modes: | FM |
| Output Power: | 5.5W, 2.5W, 0.5W (High, Mid, Low) |
| Channels: | 207 (200 alphanumeric, 1 call, 6 scan edges) |
| Waterproof Rating: | IP54 dust-protection and water-resistance |
| Weight: | 4.9oz (without battery pack) |
| Number in Case: | 10 |
| Warranty: | 1 Year |



FEATURES

DTCS/CTCSS encode/decode/coded scan
Internal VOX function
36mm large speaker
Multi-function display
Desktop trickle charger optional
Multiple signaling formats
PC programmable with optional CS-V80
Transceiver-to-transceiver cloning (Optional)
DTMF autodial memories
Mil-STD-810 rugged construction

SUPPLIED ACCESSORIES

Antenna (FAB2E)
Battery (BP263 or BP265)
Belt clip (MB124)
Desk charger (BC193 – HD version)
AC adapter (BC147SA)
Jack cover w/screws
Owner's manual



IP54
DUST PROTECTION
& SPLASH PROOF

Accessories

| Model | Description | MSRP |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------|
| Antennas | | |
| FAB2E | 136-174MHz antenna (BNC) | \$35.00 |
| Batteries | | |
| BP263 | Battery case that holds 6 AA alkaline batteries | \$30.00 |
| BP264 | Ni-MH 7.2V 1400mAh | \$47.00 |
| BP265 | Li-ion 7.4V 1900mAh | \$62.00 |
| Belt Clips | | |
| MB124 | Alligator type belt clip | \$12.00 |
| Cables | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| Chargers | | |
| BC123SA | AC adapter for rapid chargers; 100-240V with US style plug | \$25.00 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |
| BC147SA | AC adapter for trickle chargers; 100-240V with a US style plug | \$15.00 |
| BC147SE 15 | AC adapter for trickle chargers; 230V with a Euro style plug | \$16.00 |
| BC192 12 | 110V trickle charger for the NiMH BP264 (not CEC compatible for AM radios) | \$36.00 |
| BC193 | Rapid charger for radios with BP265 Li-ion battery; 100-240V with US style plug | \$67.00 |
| BC193E | Rapid charger for radios with BP265 Li-ion battery; 100-240V with Euro style plug | \$67.00 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| MB130 | Vehicle charger bracket holds rapid charger and requires cigarette lighter cable | \$83.00 |
| Headsets | | |
| HS94 | Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392 | \$25.00 |
| HS95 | Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392 | \$215.00 |
| HS97 | Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392 | \$42.00 |
| OPC2004 | Adapter plug to to use the HS94/95/97 for the F3001/4001/3101D/4101D & V80 | \$27.00 |
| Manuals | | |
| 94415526 | V80 CD service manual | \$0.00 |
| 97715517 | V80 service manual hardcopy | \$0.00 |
| 98815525 | V80 owner's manual | \$0.00 |
| Microphones | | |
| HM158LA | Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker) | \$47.00 |
| HM159LA | Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker) | \$77.00 |
| Software & Cables | | |
| CSV80 | V80 software | \$60.00 |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |
| Wire Kits | | |
| HM153LA | Covert durable microphone with earphone combination (right angle 2-pin screw down connector) | \$125.00 |
| HM166LA | Earphone microphone with 2-pin right angle connector | \$53.00 |

9100

HF/VHF/UHF Transceiver is discontinued and no longer available from Icom. Icom does still sell the below compatible accessories

SPECS

Frequencies: **RX** 0.030-60.000*; 136.000-174.000*; 420.000-480.000*; 1240.000-1320.000MHz* **
TX 1.800-1.999; 3.500-3.999; 5.255-5.405*; 7.000-7.300; 10.100-10.150; 14.000-14.350; 18.068-18.168; 21.000-21.450; 24.890-24.999; 28.000-29.700; 50.000-54.000; 144.000-148.000; 430.000-450.000; 1240.000-1300.000MHz**
*Some frequency bands are not guaranteed.
**With optional UX-9100

Modes: USB, LSB, CW, RTTY (FSK), FM, AM*, DV (with UT121)
*Transmit HF/50MHz only. Cannot receive on 1200MHz band.

Weight: 24.3lb
Number in Case: 2
Warranty: 1 Year



Output Power:

| | HF/50MHz | 144MHz | 440MHz | 1200MHz*1 |
|---------------------|----------|--------|--------|-----------|
| SSB/CW/RTTY/FM/DV*2 | 2-100W | 2-100W | 2-75W | 1-10W |
| AM | 2-30W | -- | -- | -- |

*1 with UX-9100, *2 with UT121

DSP Type: Double conversion
superheterodyne

Channels: 396 (99 for each HF/50, 144, 430/440, 1200MHz band), 4 Call (1 for each band), 24
Scan Edges (6 for each band), 20
satellite and 50 GPS memories (with optional UX-9100)

FEATURES

Three Independent dual receivers
32-bit floating point DSP & 24-bit AD/DA converters
AGC loop management
Digital IF filter
Digital twin PBT and IF shift
Noise reduction/noise blanker
RF speech compressor
Adjustable transmit bandwidth
Large multi-function LCD
USB connector for PC control
Built-in voice synthesizer
20dB built-in attenuator

VHF/UHF Features

Superb readability in VHF/UHF band
VSC (Voice Squelch Control) Function
AFC function (FM/DV mode)
CTCSS and DTCS tone encoder and decoder
9600bps data socket
Automatic repeater function and one-touch repeater function
High efficiency power amplifiers/heat sink

HF Features

+30dBm class third-order intercept point
Built-in 15kHz 1st IF filter
RTTY demodulator and decoder
Ample CW functions
Built-in antenna tuner for HF/50MHz band
Manual notch filter and auto notch filter
Two preamplifier types
Triple band stacking register

SUPPLIED ACCESSORIES

Hand microphone (HM36)
DC power cable (OPC1457)
Carrying handle (MB123)
Electronic keyer plug
ACC cable (13-pin) (8900006110)
Spare fuses
Owner's manual

Accessories

| Model | Description | MSRP |
|------------------------------------------|------------------------------------------------------------------------------|------------|
| Amplifier | | |
| PW1U 01 | 1KW Linear Amp | \$7,810.00 |
| Antenna Tuners | | |
| AH4 | Automatic antenna tuner (long wire/AH2B) | \$430.00 |
| Antennas | | |
| AH2B | Antenna element/base | \$599.00 |
| AH740 | Relay-driven compact automatic tuning antenna 2.5MHz-29.999MHz | \$2,315.00 |
| Cables | | |
| OPC1457 | DC power cord with 4-pin connector and 30A fuse for 7000/7200/7410/7600/9100 | \$90.00 |
| OPC1529R | Data cable (RS232 to 3.5mm) | \$41.00 |
| OPC2321 | Control cable adapter to 4 pin type for AH740 | \$175.00 |
| OPC599 | Cable adapter converts 13-pin ACC connector to 7-pin & 8-pin ACC connector | \$80.00 |
| Encryption & Internal Modules | | |
| UT121 | D-STAR digital board | \$229.00 |
| External Speakers | | |
| SP23 | External speaker with 4 audio filters; headphone jack (5W) | \$330.00 |
| SP33 | Base station speaker (4Ohm) | \$120.00 |
| SP34 | Base station high quality speaker with internal audio filters | \$465.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| Filters | | |
| FL430 | 6kHz 1st IF filter for better receiver performance (7410/9100) | \$125.00 |
| FL431 | 3kHz 1st IF filter for better receiver performance (7410/9100) | \$125.00 |
| Manuals | | |
| 94415692 | 9100 CD service manual | \$0.00 |
| 97715691 | 9100 service manual - hardcopy | \$0.00 |
| 98815693 | 9100 owner's manual | \$0.00 |
| Microphones | | |
| SM30 | Compact desktop microphone with low cut function | \$195.00 |
| SM50 | Desktop unidirectional microphone with up/down switches and low cut function | \$400.00 |
| Mounting Hardware | | |
| MB123 | Carrying handle for 7300/9100/7410 | \$35.00 |
| Software & Cables | | |
| CS9100 | Cloning software for 9100 | \$60.00 |
| RC28 | Remote control USB encoder | \$370.00 |
| RS-BA1 V2 | IP remote control software for amateur radios | \$149.00 |

7200

HF/50MHz Transceiver is discontinued and no longer available from Icom. Icom does still sell the below compatible accessories

Accessories

| Model | Description | MSRP |
|------------------------------|----------------------------------------------------------------------------------------------------|------------|
| Amplifier | | |
| PW1U 01 | 1KW Linear Amp | \$7,810.00 |
| Antenna Tuners | | |
| AH4 | Automatic antenna tuner (long wire/AH2B) | \$430.00 |
| Antennas | | |
| AH2B | Antenna element/base | \$599.00 |
| AH710 | Folded dipole antenna with an SO-239 connector. Covers 1.9 to 30MHz band. Length is approx 80.3ft. | \$430.00 |
| AH740 | Relay-driven compact automatic tuning antenna 2.5MHz-29.999MHz | \$2,315.00 |
| Cables | | |
| OPC1457 | DC power cord with 4-pin connector and 30A fuse for 7000/7200/7410/7600/9100 | \$90.00 |
| OPC2321 | Control cable adapter to 4 pin type for AH740 | \$175.00 |
| OPC599 | Cable adapter converts 13-pin ACC connector to 7-pin & 8-pin ACC connector | \$80.00 |
| External Speakers | | |
| SP23 | External speaker with 4 audio filters; headphone jack (5W) | \$330.00 |
| SP33 | Base station speaker (4Ohm) | \$120.00 |
| SP34 | Base station high quality speaker with internal audio filters | \$465.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| Manuals | | |
| 94415538 | 7200 CD service manual | \$28.97 |
| 97715409 | 7200 service manual hardcopy | \$160.78 |
| 98815380 | 7200 owner's manual | \$22.15 |
| Microphones | | |
| SM30 | Compact desktop microphone with low cut function | \$195.00 |
| SM50 | Desktop unidirectional microphone with up/down switches and low cut function | \$400.00 |
| Mounting Hardware | | |
| MB116 | Front handles for the 7200 | \$0.00 |
| MB117 | Carry handle and mounting hardware for the IC-7200 | \$0.00 |
| MB118 | Mounting bracket for the IC-7200 | \$50.00 |
| Software & Cables | | |
| RC28 | Remote control USB encoder | \$370.00 |
| RS-BA1 V2 | IP remote control software for amateur radios | \$149.00 |

ID880H

The ID880H is discontinued and no longer available from Icom. Icom does still sell the below compatible accessories

Accessories

| Model | Description | MSRP |
|------------------------------|-------------------------------------------------------------------------------------------------------------|----------|
| Cables | | |
| OPC1132 | DC power cable (9.8ft) with 2-pin T connector. | \$45.00 |
| OPC1529R | Data cable (RS232 to 3.5mm) | \$41.00 |
| OPC347 | DC power cable (23ft) | \$70.00 |
| OPC440 | Microphone extension cable (RJ-45 M/F) (16.4ft) | \$100.00 |
| OPC589 | Microphone adapter cable (8 pin to RJ-45) | \$45.00 |
| External Speakers | | |
| SP34 | Base station high quality speaker with internal audio filters | \$465.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| Manuals | | |
| 94415461 | ID880H CD service manual | \$50.22 |
| 97715446 | ID880H service manual - hardcopy | \$52.26 |
| 98815455 | ID880H owner's manual | \$30.63 |
| Microphones | | |
| HM154 | Simple microphone for Amateur mobile radios (RJ45) | \$55.00 |
| Remote Mounting | | |
| MBF1 | Remote head mount. Adhesive pad and adjustable pivot points holds it securely. Requires MBA5, MBA7 or MBA8. | \$85.00 |
| OPC1154A | 3.5m front panel separation cable | \$0.00 |
| Software & Cables | | |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |

80AD

Dual Band Handheld Transceiver is discontinued and no longer available from Icom. Icom does still sell the below compatible accessories

Accessories

| Model | Description | MSRP |
|------------------------------|-----------------------------------------------------------------------------------|---------|
| Antennas | | |
| AD92SMA | Antenna connector adapter to connect a BNC-type antenna | \$20.00 |
| FAS270C | Wideband RX antenna (SMA) | \$35.00 |
| Belt Clips | | |
| MB107 | Standard belt clip for the 91A/AD | \$0.00 |
| MB86 | Swivel belt clip that screws into back of radio | \$12.00 |
| Cables | | |
| OPC1529R | Data cable (RS232 to 3.5mm) | \$41.00 |
| OPC254L | Power supply cable; 10-14V DC required for high power output | \$20.00 |
| Chargers | | |
| BC123SA | AC adapter for rapid chargers; 100-240V with US style plug | \$25.00 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |
| BC167SA | Wall trickle charger; 100-240V with US style plug | \$35.00 |
| BC167SD | Wall trickle charger; 100-240V with Euro style plug | \$40.00 |
| CP12L | Cigarette lighter cable with noise filter and right angle connector | \$43.00 |
| Manuals | | |
| 94415462 | 80AD CD service manual | \$0.00 |
| 97715445 | 80AD service manual - hardcopy | \$0.00 |
| 98815454 | 80AD owner's manual | \$0.00 |
| Microphones | | |
| HM131 | Speaker/microphone with earphone jack and clip (straight 2-pin, both stereo plug) | \$45.00 |
| SP-AT1 | Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape) | \$31.50 |
| Software & Cables | | |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |
| Wire Kits | | |
| HM128 | Earphone-microphone with 2-pin straight connector | \$30.00 |

92AD

Dual Band Handheld Transceiver is discontinued and no longer available from Icom. Icom does still sell the below compatible accessories

Accessories

| Model | Description | MSRP |
|--------------------|-----------------------------------------------------------------------------------|---------|
| Antennas | | |
| AD92SMA | Antenna connector adapter to connect a BNC-type antenna | \$20.00 |
| FAS270C | Wideband RX antenna (SMA) | \$35.00 |
| Cables | | |
| OPC254L | Power supply cable; 10-14V DC required for high power output | \$20.00 |
| Chargers | | |
| BC123SA | AC adapter for rapid chargers; 100-240V with US style plug | \$25.00 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |
| BC167SA | Wall trickle charger; 100-240V with US style plug | \$35.00 |
| BC167SD | Wall trickle charger; 100-240V with Euro style plug | \$40.00 |
| CP12L | Cigarette lighter cable with noise filter and right angle connector | \$43.00 |
| Manuals | | |
| 94415333 | 92AD CD service manual | \$50.22 |
| 97715331 | 92AD service manual hardcopy | \$91.54 |
| 98815332 | 92AD owner's manual | \$27.94 |
| Microphones | | |
| HM131 | Speaker/microphone with earphone jack and clip (straight 2-pin, both stereo plug) | \$45.00 |
| SP-AT1 | Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape) | \$31.50 |
| Wire Kits | | |
| HM128 | Earphone-microphone with 2-pin straight connector | \$30.00 |

V8000

2M Mobile Transceiver is discontinued and no longer available from Icom. Icom does still sell the below compatible accessories

Accessories

| Model | Description | MSRP |
|------------------------------|-------------------------------------------------------------------------|----------|
| Cables | | |
| OPC1132 | DC power cable (9.8ft) with 2-pin T connector. | \$45.00 |
| OPC346 | Power cable for the 281H DELTA 100H 2000H F320S F420S F1020 2710H | \$45.00 |
| OPC347 | DC power cable (23ft) | \$70.00 |
| OPC440 | Microphone extension cable (RJ-45 M/F) (16.4ft) | \$100.00 |
| OPC589 | Microphone adapter cable (8 pin to RJ-45) | \$45.00 |
| External Speakers | | |
| SP34 | Base station high quality speaker with internal audio filters | \$465.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| Manuals | | |
| 94414100 | V8000 service manual - CD | \$0.00 |
| 97714097 | V8000 service manual hardcopy | \$0.00 |
| 98814186 | V8000 owner's manual | \$0.00 |
| Microphones | | |
| HM133V | Standard partial function remote microphone (squellch only) 2300H/V8000 | \$106.00 |
| HM154 | Simple microphone for Amateur mobile radios (RJ45) | \$55.00 |
| HM154T | Basic DMTF microphone (RJ45 connector) all Amateur models | \$90.00 |
| Software & Cables | | |
| CSV8000 | V8000 Cloning Software | \$0.00 |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |

R20

Communications Receiver is discontinued and no longer available from Icom. Icom does still sell the below compatible accessories

Accessories

| Model | Description | MSRP |
|------------------------------|---------------------------------------------------------------|---------|
| Antennas | | |
| FAB04RE | Wideband RX antenna (BNC) | \$32.00 |
| Belt Clips | | |
| MB86 | Swivel belt clip that screws into back of radio | \$12.00 |
| MB98 | Standard belt clip for the F50/60 & M88 | \$13.00 |
| Chargers | | |
| CP18A | Cigarette lighter cable 12V | \$0.00 |
| Manuals | | |
| 97714840 | R20 service manual hardcopy | \$0.00 |
| 98814851 | R20 owner's manual | \$0.00 |
| Microphones | | |
| SP-AT1 | Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape) | \$31.50 |
| Software & Cables | | |
| CSR20 | R20 cloning software and includes OPC1382 programming cable | \$0.00 |

R75

The R75 is discontinued and no longer available from Icom. Icom does still sell the below compatible accessories

Accessories

| Model | Description | MSRP |
|-------------------------------------------------|-------------------------------------------------------------------------|----------|
| <i>Encryption & Internal Modules</i> | | |
| UT106 | DSP unit | \$195.00 |
| <i>External Speakers</i> | | |
| SP23 | External speaker with 4 audio filters; headphone jack (5W) | \$330.00 |
| <i>Manuals</i> | | |
| 94412913 | R75 service manual - CD | \$28.97 |
| 97712938 | R75 service manual hardcopy | \$119.61 |
| 98812934 | R75 owner's manual | \$16.09 |
| <i>Mounting Hardware</i> | | |
| MB23 | Carry handle and mounting hardware for the IC-718/77/707/821H/R8500/R75 | \$20.00 |
| <i>Software & Cables</i> | | |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |

R8500

The R8500 is discontinued and no longer available from Icom. Icom does still sell the below compatible accessories

Accessories

| Model | Description | MSRP |
|------------------------------|-------------------------------------------------------------------------|----------|
| Antennas | | |
| AH8000 | Discone antenna wideband RX TX 100-3300MHz | \$340.00 |
| External Speakers | | |
| SP23 | External speaker with 4 audio filters; headphone jack (5W) | \$330.00 |
| Manuals | | |
| 97712352 | R8500 service manual hardcopy | \$84.00 |
| 98812203 | R8500 owner's manual | \$18.10 |
| Mounting Hardware | | |
| MB23 | Carry handle and mounting hardware for the IC-718/77/707/821H/R8500/R75 | \$20.00 |
| Software & Cables | | |
| RSR8500 | Remote control software R8500 | \$0.00 |



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Download Icom's current product line brochures
instruction manuals, band plans and other
information from: www.icomamerica.com/downloads

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Handhelds



A16

VHF Air Band Transceiver

SPECS

| | |
|--------------------|--------------------------------------------------------------|
| Frequencies: | |
| Tx | 118.000-136.99166MHz |
| Rx | 108.000-136.99166MHz |
| (Weather) | 161.650-163.275MHz |
| Output Power: | 6.0W (PEP), 1.8W (carrier) |
| Channels: | 200 |
| Channel Spacing: | 8.33kHz/25kHz |
| Display: | LCD and keypad backlight |
| Mode: | AM (6K00A3E) FM (16K0G3E) |
| Mil Spec: | MIL 810 C,D,E,F, G |
| Waterproof Rating: | IP67/IP54 |
| Weight: | 9.1 oz (with BP280) |
| Version: | Communications Only Communications only with Bluetooth |



FEATURES

Compact, light weight and rugged body
Large capacity Li-ion battery
1500mW loud audio for clear communications
Bluetooth® version for hands-free operation
LCD and key backlight for night time operation
Compatible with third-party aviation headsets
Auto Noise Limiter (ANL) for noise reduction
Internal VOX capability
BNC type antenna connector

COMES WITH

Battery (BP280)
Charger (BC213)
AC adapter (BC123SA)
Belt clip (MB133)
Antenna (FAB02AR)
Handstrap
Owner's manual
Warranty: 3-Year



A16

VHF Air Band Transceiver

Configurations

| Model | Description | MSRP |
|-------|---------------------------------------------------------------------|----------|
| A16 | Communications only airband handheld with full keypad | \$405.00 |
| A16B | Communications only airband handheld with Bluetooth and full keypad | \$480.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|---------------------------------------------------------------------------------------------------|----------|
| Antennas | | |
| FAB02AR | Standard antenna for Aviation handheld radios | \$37.00 |
| Batteries | | |
| BP280 | Li-ion 7.2V 2280mAh battery | \$85.00 |
| Belt Clips | | |
| MB133 | Alligator type belt clip | \$17.00 |
| MB96N | Swivel belt hanger to use with standard belt clip | \$37.00 |
| Cables | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| OPC656 | DC power cable for gang charger | \$12.00 |
| Chargers | | |
| AD130 | Adapter cup that fits into the BC214 for the F1000/D series | \$23.00 |
| BC123SA | AC adapter for rapid chargers; 100-240V with US style plug | \$25.00 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |
| BC213 | Rapid charger with a US plug for radios with the BP279/BP280 battery (BC-123SA or BC242 included) | \$60.00 |
| BC213NAC | Rapid charger cup for radios with the BP279 battery (BC-123S not included) | \$35.00 |
| BC214 | Six bank charger with US plug AC adapter and cups installed | \$495.00 |
| BC214E | Six unit charger for BP279/BP280 radios (includes AC adapter with Euro plug and cups installed) | \$495.00 |
| BC214E | Six bank charger with EURO plug AC adapter and cups installed | \$495.00 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| MB130 | Vehicle charger bracket holds rapid charger and requires cigarette lighter cable | \$83.00 |
| Headsets | | |
| OPC2401 | Headset adapter with screw down connector (A16) | \$105.00 |
| PTT SW | Avionic PTT switch. Plugs into your headset. | \$28.00 |
| VS3 | Compact clippable PTT Bluetooth with earphone via 3.5mm jack for all-day operation | \$149.00 |
| Microphones | | |
| HM240 | Waterproof aviation speaker mic (2-pin) | \$100.00 |
| Software & Cables | | |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |

A25

VHF Air Band Transceiver

SPECS

Frequencies:

| | |
|--------------|--------------------|
| Tx (COM) | 118.000-136.975MHz |
| Rx (COM,NAV) | 108.000-136.975MHz |
| (Weather) | 161.650-163.275MHz |

Output Power: 6W typ. (PEP), 1.8W (CW)

Channels: 200 (20 CH x 10 banks)

Channel Spacing: 8.33/25KHz

Mode: 6K00A3E, 5K60A3E

(Weather) 16K0G3E

Waterproof: IP57 dust-protection and waterproof

Mil Spec: MIL 810 G
Also meets equivalent MIL-STD-810-C, -D, -E and -F

Weight (approx): 12.0 oz

Versions: Communications plus navigation
Communications only



FEATURES

General Features:

Easy to use interface with full keypad

2.3" LCD

Night mode option

"Flip-flop" channel recall

Smart battery with detailed battery status

121.5MHz emergency key

Weather channels

Priority watch

VFO scan, memory-channel scan, priority scan

Navigation Features:

Built-in Bluetooth® for hands-free operation

Built-in GPS with waypoint NAV

Store up to 10 flight plans and 300 waypoints

Flight plans with Android™/iOS™ app

Create flight plan

Set Direct-to Nav

Display flight information

Display waypoint information

VOR navigation functions

CDI (course deviation indicator)

OBS (omni bearing selector)

TO-FROM indicator

ABSS (automatic bearing set system)

Near station function assists in accessing nearby ground stations

Supplied Accessories

Antenna (FAB02AR)

Battery pack (BP288)

Battery case (BP289)

Belt clip (MB133)

Headset adapter (OPC2379)

Rapid charger (BC224 + BC123SA)

Handstrap

Owner's manual

Warranty: 3-Year

A25

VHF Air Band Transceiver

Configurations

| Model | Description | MSRP |
|------------|--------------------------------------------------------------------------------|----------|
| A25C | Communications only aviation handheld 6W with li-ion battery and rapid charger | \$710.00 |
| A25C SPORT | Communications only aviation handheld 6W and AA battery pack | \$505.00 |
| A25N | Communications plus navigation aviation handheld 6W | \$800.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------|
| Antennas | | |
| FAB02AR | Standard antenna for Aviation handheld radios | \$37.00 |
| Batteries | | |
| BP288 | 2350mAh li-ion 7.2V battery; IP57 | \$145.00 |
| BP289 | Battery case 6 x AA; IP54 | \$50.00 |
| Belt Clips | | |
| MB133 | Alligator type belt clip | \$17.00 |
| MB96N | Swivel belt hanger to use with standard belt clip | \$37.00 |
| Cables | | |
| OPC2144 | Right angle plug adapter cable to plug old straight pin connector headsets into (required to use with OPC478 when programming radios) | \$35.00 |
| OPC2379 | Headset adapter cable for A25 | \$95.00 |
| Carrying Cases | | |
| NCA25 | Nylon case for the A25 | \$27.00 |
| Chargers | | |
| BC123SA | AC adapter for rapid chargers; 100-240V with US style plug | \$25.00 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |
| BC224 | Rapid charger with BC123SA | \$65.00 |
| BC224E | Rapid charger with BC123SE (Euro plug) | \$65.00 |
| CP20 | Cigarette lighter cable with noise filter and DC-DC converter. Charges the BC167 with a 12V/24V cigarette lighter socket. | \$61.00 |
| MB130 | Vehicle charger bracket holds rapid charger and requires cigarette lighter cable | \$83.00 |
| Headsets | | |
| VS3 | Compact clippable PTT Bluetooth with earphone via 3.5mm jack for all-day operation | \$149.00 |
| Microphones | | |
| HM231 | Waterproof speaker microphone (A25) | \$90.00 |
| Software & Cables | | |
| CSA25 | A25 programming software | \$85.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |

Mobiles / Panel Mounts



A120

Sub-title

SPECS

| | |
|------------------|-------------------------------------------------|
| Frequencies: | 118.000-136.992MHz |
| Output Power: | 36W typ. (P.E.P.) |
| Channels: | 200 with 12 character channel names |
| Channel Spacing: | 8.33/25kHz |
| LCD Display: | Dot-matrix with alphanumeric icons & characters |
| Waterproofing: | IP54 dust protection & water resistant |
| Mil Spec: | 810 C, D, E, F, G |
| Weight (approx): | 3 lb 3 oz |



FEATURES

Active Noise Cancelling (ANC) reduces background noises
Optional Bluetooth® board to connect to Bluetooth® headsets
Program channels from the front panel
ON-hook scan
Dual watch
Side tone function
Dual watch and priority scan functions
Compatible with both 12V and 24V systems
Power on password protection
CI-V commands for external control
Connect with other radio devices with the VEPG3 RoIP gateway

COMES WITH

Hand microphone (HM216)
DC power cable
Mounting bracket
Microphone hanger kit
Fuses
Owner's manual
Warranty: 2-Year

IP54
DUST PROTECTION
& SPLASH PROOF



OTTO
ACCESSORIES
AVAILABLE

MDC 1200
Compatible

A120

Sub-title

Configurations

| Model | Description | MSRP |
|--------|------------------------------------------------------------|------------|
| A120 | Airband mobile with 200 channels with open VFO, 8.33/25kHz | \$1,585.00 |
| A120B | A120 with 120V power supply and cabinet for base station | \$1,825.00 |
| A120BE | A120 with 220V power supply and cabinet for base station | \$1,860.00 |

Accessories

| Model | Description | MSRP |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------|
| Antennas | | |
| B ANT | Base station antenna 118.8-126.8MHz with 50' 4" cable for Avionic mobile units. | \$365.00 |
| K220A | Aviation mobile antenna with a magnetic mount | \$75.00 |
| K220C | Aviation mobile antenna with a rooftop hole mount | \$60.00 |
| Cables | | |
| OPC2275 | 5m audio connection cable between the VEPG3 and the F5061/D series or A120 (RJ-45 modular plug connector with speaker plug). | \$150.00 |
| OPC344 | A110/A120 power cord | \$16.00 |
| Encryption & Internal Modules | | |
| UT133 | Bluetooth unit | \$99.00 |
| External Speakers | | |
| SP30 | 20W large external speaker | \$110.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| Headsets | | |
| OPC871A | Headset adapter A120/A110 | \$154.00 |
| PTT SW | Avionic PTT switch. Plugs into your headset. | \$28.00 |
| VS3 | Compact clippable PTT Bluetooth with earphone via 3.5mm jack for all-day operation | \$149.00 |
| Microphones | | |
| HM216 | Standard microphone for A120 | \$47.00 |
| HM217 | Microphone with built-in speaker and front panel includes up/down buttons and two programmable buttons (P1/P2) | \$100.00 |
| SM26 | Desktop microphone with monitor switch for mobile radios | \$90.00 |
| Mounting Hardware | | |
| MB99A | Wall mounting bracket VEPG3/IP1000C | \$65.00 |
| Power Supplies | | |
| ICT ICO11 | 120V power supply and cabinet for base station use for A120 | \$210.00 |
| ICT ICO11 220V | 220V power supply and cabinet for control station use for A120 | \$235.00 |
| Software & Cables | | |
| CSA120 | Programming software A120 | \$90.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |
| OPC592 | Programming cloning cable for PC to radio (must use with OPC-478/UC) | \$17.00 |

A220

VHF Air Band Transceiver

SPECS

Frequencies:

TX/RX 8.33kHz 118.000-136.992MHz

25kHz 118.000-136.975MHz

RX Weather channel 161.650-163.275MHz

Frequency spacing: 8.33kHz/25kHz

Output Power: 8W typical (carrier power)

Channels: 20 regular memory
50 (10 Ch x 5 groups) group memory

10 GPS, 10 weather

10 auto stack memory

Display: Organic light emitting diode (OLED)

Mil Spec: 810 C, D, E & F

Scan: VFO

Weight (approx): 2.2 lb

Versions: Radio without TSO approval
Radio with TSO approval



FEATURES

TSO version meets RTCA-160G requirements for use in strict environments.

The A220T can be used for a primary VHF radio in general aviation (part 23)

class aircraft and is accepted for ETSO approval under the TSO/ETSO reciprocal acceptance policy.

Automatic squelch function

White OLED display with white key backlight

Easy channel selection

GPS memory function*

12V/24V DC power source

Intercom functions

D-sub 25-pin industry standard connector for easy installation

Two types of menu mode: setting menu and configuration menu

One touch access to 121.5MHz emergency frequency

Side tone function for monitoring your voice with headset

ANL (Automatic noise limiter) function reduces pulse type noise

Remote control capability

Time-out-timer

PC programming capability*

Dial lock and panel lock*

COMES WITH

Mounting bracket kit

Owner's manual

Warranty: 2-Year



A220

VHF Air Band Transceiver

Configurations

| Model | Description | MSRP |
|-------|----------------------------------------------------------------------------------------------|------------|
| A220 | Panel mount aviation radio | \$2,150.00 |
| A220B | Radio plus PS80 power supply for base station option (radio not installed into power supply) | \$3,630.00 |
| A220M | Radio with MB-53 for mobile mount | \$2,680.00 |
| A220T | TSO approved panel mount aviation radio | \$2,720.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------|
| Antennas | | |
| B ANT | Base station antenna 118.8-126.8MHz with 50' 4" cable for Avionic mobile units. | \$365.00 |
| K220A | Aviation mobile antenna with a magnetic mount | \$75.00 |
| K220C | Aviation mobile antenna with a rooftop hole mount | \$60.00 |
| Cables | | |
| OPC1529R | Data cable (RS232 to 3.5mm) | \$41.00 |
| External Speakers | | |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| Microphones | | |
| HM176 | Microphone for the A220/A210/A200/PS80 | \$185.00 |
| SM30 | Compact desktop microphone with low cut function | \$195.00 |
| SM50 | Desktop unidirectional microphone with up/down switches and low cut function | \$400.00 |
| Mounting Hardware | | |
| A200 TRAY | Mounting tray for A200/A210/A220 | \$65.00 |
| MB53 | Mobile mounting bracket that includes HM176 microphone, SP35 external speaker, MBA-3 rear panel adapter, and harness for A200/A210/A220 | \$500.00 |
| MBA3 | Rear panel adapter with a card edge connector for the A220 | \$105.00 |
| Power Supplies | | |
| INSTALLATION AVIONICS | Install radio into power supply | \$0.00 |
| PS80 | Power supply that includes the HM-176 & MBA-3 for A220/A210/A200 | \$1,245.00 |
| Software & Cables | | |
| CSA220 | Programming software A220 | \$90.00 |

Fixed Comms Infrastructure



VE-PG3

RoIP Gateway

SPECS

Power Supply: 12V DC +/- 10%, max 1.1A
Weight: 1.76lb

Interface

LAN/WAN: RJ-45 connectors x 2
Ethernet Speed: 10BASE-T/100BASE-TX
Telephone Set: RJ-11 connector x 1
Telephone Line: RJ-11 connector x 2
Repeater/Radio: Quick connector x 4
I/O or external equipment: Quick connector x 2
USB: Standard A x 2



FEATURES

Converter Mode

- Interconnect between IP phone, analog phone and radio networks
- Phone calls can be initiated by radio users

Bridge Mode:

- Site-to-site radio communication over an IP network
- Site-to-multisite radio communication
- Cross band, cross category connection

Common Features:

- Optional RC-FS10 software for virtual PC dispatch station
- Public address, siren, warning light and external equipment connections (IDAS only)

WARRANTY

1-Year

Comes With

AC adapter

MULTITRUNK

IDAS
ICOM DIGITAL ADVANCED SYSTEM

Accessories

| Model | Description | MSRP |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| EXTWARR811 | 1 year extended warranty | \$65.00 |
| EXTWARR812 | 2 year extended warranty | \$93.00 |
| EXTWARR813 | 3 year extended warranty | \$130.00 |
| Cables | | |
| OPC2273 | 5m audio connection cable between the VEPG3 and the M604A (Waterproof 8-pin connector). | \$150.00 |
| OPC2274 | 5m audio connection cable between the VEPG3 and the FR5000 series (D-SUB 25-pin connector). For use only with systems that do not utilize tones or RAN's for squelching. | \$235.00 |
| OPC2275 | 5m audio connection cable between the VEPG3 and the F5061/D series or A120 (RJ-45 modular plug connector with speaker plug). | \$150.00 |
| Chargers | | |
| BC207S | 12V / 3.5A AC adapter for VEPG3/IP1000C | \$85.00 |
| Mounting Hardware | | |
| MB VP3 | Rack mounting shelf for VEPG3/IP1000C | \$100.00 |
| MB99A | Wall mounting bracket VEPG3/IP1000C | \$65.00 |
| Remote Communication | | |
| CT24 | Digital voice converter (supplied with RCFS10 and works with VEPG3) | \$1,200.00 |
| RCFS10 | Remote Communicator software + CT-24 (digital voice converter unit - each IDAS system requires 1 CT-24) | \$1,820.00 |

X-BAND Air Repeater

Cross Band Airband AM/VHF FM or Airband AM/UHF FM

SPECS

| | |
|----------------------|----------------------------------------|
| Frequencies: | AV + 136-174MHz AV +, 400-470MHz |
| Output Power: | 50W (VHF), 45W (UHF) |
| Channels: | 128 channels, 8 zones |
| Channel Spacing: | UHF: 12.5kHz Airband: 25kHz/8.33kHz |
| PLL Channel Spacing: | 2.5, 3.125kHz |
| Display: | LCD with 8 character alphanumeric |



FEATURES

Full UHF & VHF analog & Airband AM interoperability
Configured to auto switch from AC to DC
Local controlled operation, can be used as a dual base unit
Programmable actions when a matched tone is received:

- Bell icon indication ON / OFF / Blink
- Answer back calls
- Beep sounds
- Scan Start / Stop
- Auto transmission
- Stun / Kill functions (prevents use of a lost or stolen)

10 scanning lists and Normal / Priority scan
Power ON password

SIGNALING

CTCSS/DTCS decode
2/5 Tone
MDC1200

WARRANTY

Radios: 2 years
Parts: 1 year

Configurations

| Model | Description | MSRP |
|---------------------|-----------------------------------------|------------|
| IAS X-BAND 50 AIR U | Airband AM & UHF FM cross band repeater | \$3,495.00 |
| IAS X-BAND 50 AIR V | Airband AM & VHF FM cross band repeater | \$3,495.00 |

Accessories

| Model | Description | MSRP |
|------------|----------------------------------------------|----------|
| EXTWARRPT1 | 1 year extended warranty for a total 3 years | \$180.00 |
| EXTWARRPT2 | 2 year extended warranty for a total 4 years | \$325.00 |
| EXTWARRPT3 | 3 year extended warranty for a total 5 years | \$465.00 |

Cabinets

| | | |
|------------|-----------------------------------|------------|
| IASMNT1030 | 30" (17RU) locking indoor cabinet | \$1,165.00 |
| IASMNT1046 | 46" (26RU) locking indoor cabinet | \$2,280.00 |
| IASMNT1060 | 60" (34RU) locking indoor cabinet | \$3,190.00 |

Microphones

| | | |
|--------|----------------------------------------------------------------------------------------------------------------|----------|
| HM152 | Standard microphone for low/mid range mobile radios | \$44.00 |
| HM152T | DTMF modular microphone for LM mobile radios | \$90.00 |
| HM216 | Standard microphone for A120 | \$47.00 |
| HM217 | Microphone with built-in speaker and front panel includes up/down buttons and two programmable buttons (P1/P2) | \$100.00 |
| SM26 | Desktop microphone with monitor switch for mobile radios | \$90.00 |

Racks

| | | |
|------------|--------------------------------------------------------------|------------|
| IASMNT1028 | 28x19, 16U desktop 2-post rack; 350lb weight capacity | \$395.00 |
| IASMNT1042 | 42x19 welded steel 2-post rack; 24U, 1,500lb weight capacity | \$750.00 |
| IASMNT1063 | 63x19 welded steel 2-post rack; 63U, 1,500lb weight capacity | \$995.00 |
| IASMNT1070 | 70x19 welded steel 2-post rack; 40U, 1,500lb weight capacity | \$1,025.00 |

Software & Cables

| | | |
|---------------------|------------------------------------------------------------------|---------|
| CSF3021/F5021/F5011 | F3021/5021/5011 series programming software | \$72.00 |
| OPC1122U | PC to mobile radio programming cloning cable with USB connector. | \$99.00 |
| PROG-IAS | Icom to program your system products | \$0.00 |

Discontinued Radios



A14

A14 is discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

SPECS

Frequencies:

Tx (COM) 118.000-136.975MHz

Rx (COM,NAV) 108.000-136.975MHz

(Weather) 161.650-163.275MHz

Output Power: 5.0/1.5W typ. (PEP/CW)

Channels: 200

Channel Spacing: 25kHz

Display: 8 character alphanumeric

Mode: AM (6K00A3E)

FM (16K0G3E)

Mil Spec: MIL 810 C,D,E,F

Waterproof Rating: IPX4 splash proof

Weight: 12.3 oz (with BP232H)



FEATURES

Made with the student pilot in mind

700mW loud audio

Compact, light weight and rugged body

Large capacity Lithium-Ion battery pack

Side tone function allows you to hear your own voice via a third party aviation headset

LCD backlight for night time operation

ANL (Auto Noise Limiter) for noise reduction

Low battery indication and beep alert

Adjustable microphone gain setting

BNC type antenna connector

Slide tone

Tag scanning

NOAA marine weather channels

COMES WITH

Battery (BP232H)

Charger (BC160)

AC adapter (BC123SA)

Belt clip (MB94)

Antenna (FAB02AR)

Handstrap

Owner's manual

Warranty: 3-Year

Accessories

| Model | Description | MSRP |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------|
| Antennas | | |
| FAB02AR | Standard antenna for Aviation handheld radios | \$37.00 |
| Batteries | | |
| BP232H | Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value) | \$75.00 |
| BP261 | Battery case that holds 6 AA alkaline batteries | \$73.00 |
| Belt Clips | | |
| MB93 | Swivel belt clip | \$11.00 |
| MB94 | Alligator belt clip | \$10.50 |
| MB94R | Alligator belt clip with long clip that angles the antenna/top of radio off the body | \$18.00 |
| MB96N | Swivel belt hanger to use with standard belt clip | \$37.00 |
| Cables | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| OPC656 | DC power cable for gang charger | \$12.00 |
| Chargers | | |
| AD106 | Adapter cup for the BC119N/BC121N for the radios with the BP232N/H battery | \$28.00 |
| AD122 | Adapter cup that fits into the BC197 22/23 for the BP232N/H batteries | \$23.00 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |
| BC145SA 31 | AC adapter for BC119N; 100-240V with US style plug | \$25.00 |
| BC147SA | AC adapter for trickle chargers; 100-240V with a US style plug | \$15.00 |
| BC147SE 15 | AC adapter for trickle chargers; 230V with a Euro style plug | \$16.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |
| BC160 | Rapid charger for radios with the BP230/231/232 battery; 100-240V with a US style plug | \$70.00 |
| BC160E | Rapid charger for radios with the BP230/231/232 battery; 100-240V with a Euro style plug | \$70.00 |
| BC197 22 | Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with US style plug | \$510.00 |
| BC197 23 | Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with Euro style plug | \$510.00 |
| CP22 | Cigarette lighter cable with DC-DC converter for use with the BC179 for the A14/S. 12-24V DC input available. | \$69.00 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| MB130 | Vehicle charger bracket holds rapid charger and requires cigarette lighter cable | \$83.00 |
| Headsets | | |
| PA OPC499 | Headset adapter | \$60.00 |
| PTT SW | Avionic PTT switch. Plugs into your headset. | \$28.00 |
| Manuals | | |
| 94415339 | A14/A14S CD service manual | \$28.97 |
| 97715337 | A14/A14S service manual hardcopy | \$40.16 |
| 98815338 | A14/S owner's manual | \$17.12 |
| Microphones | | |
| HM234 | Aviation speaker mic (2-pin right angle connector) | \$105.00 |
| Software & Cables | | |
| CSA14 | Programming software for the A14/A14S | \$77.00 |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |

Accessories

| Model | Description | MSRP |
|----------|----------------------------------------------------|---------|
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |

A24 / A6

A24 / A6 is discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

SPECS

Frequencies:

| | |
|--------------|--------------------|
| Tx (COM) | 118.000-136.975MHz |
| Rx (COM,NAV) | 108.000-136.975MHz |
| (Weather) | 161.650-163.275MHz |

Output Power: 5.0/1.5W typ. (PEP/CW)

Channels: 200 (20 Channels X 10 banks)

Channel Spacing: 25kHz

Mode: AM (6K00A3E)

WX FM (16K0G3E)

Mil Spec: MIL 810 F

Also meets equivalent MIL-

STD-810-C, -D and -E

Weight (approx): 15.2 oz (with BP210N)



FEATURES

Made with the student pilot in mind

700mW loud audio

Compact, light weight and rugged body

Durable Ni-MH battery pack

Side tone function allows you to hear your own voice via a third party aviation headset

LCD backlight for night time operation

ANL (Auto Noise Limiter) for noise reduction

Low battery indication and beep alert

Adjustable microphone gain setting

BNC type antenna connector

Supplied Accessories

Battery pack (BP210N)

Belt clip (MB103)

Wall charger (BC167S)

Antenna (FAB02AR)

Carrying case LC159 (Not included in A6)

Headset adapter (OPC499)

Handstrap

Owner's manual

Warranty: 3-Year



Accessories

| Model | Description | MSRP |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------|
| Antennas | | |
| FAB02AR | Standard antenna for Aviation handheld radios | \$37.00 |
| Batteries | | |
| BP208N | Battery case that holds 6 AA alkaline batteries. | \$22.00 |
| BP210N | NiMH 7.2V 1650mAh battery | \$95.00 |
| Belt Clips | | |
| MB103 | Alligator belt clip | \$12.50 |
| MB86 | Swivel belt clip that screws into back of radio | \$12.00 |
| MB96N | Swivel belt hanger to use with standard belt clip | \$37.00 |
| Cables | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| OPC656 | DC power cable for gang charger | \$12.00 |
| Carrying Cases | | |
| LC159 | Leather carrying case for the A6/A24 | \$43.00 |
| Chargers | | |
| AD101 | Adapter cup for the BC119N or BC121N for the BP210N & BP211 batteries | \$28.00 |
| BC145SA 31 | AC adapter for BC119N; 100-240V with US style plug | \$25.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |
| BC167SA | Wall trickle charger; 100-240V with US style plug | \$35.00 |
| BC167SD | Wall trickle charger; 100-240V with Euro style plug | \$40.00 |
| CP20 | Cigarette lighter cable with noise filter and DC-DC converter. Charges the BC167 with a 12V/24V cigarette lighter socket. | \$61.00 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| Headsets | | |
| PA OPC499 | Headset adapter | \$60.00 |
| PTT SW | Avionic PTT switch. Plugs into your headset. | \$28.00 |
| Manuals | | |
| 94414904 | A24/A6 CD service manual | \$28.97 |
| 97714915 | A6/A24 service manual hardcopy | \$38.32 |
| 98814945 | A24/A6 owner's manual | \$16.73 |
| Microphones | | |
| HM234 | Aviation speaker mic (2-pin right angle connector) | \$105.00 |
| Software & Cables | | |
| CSA24 | A24 Cloning Software | \$65.00 |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |



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May 2020

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Portables



F3001 – F4001 Series

Entry Level Analog Portables

SPECS

| | |
|--------------------|------------------------------|
| Frequencies: | 136-174, 400-470, 450-512MHz |
| Output Power: | 5W (VHF); 4W (UHF) |
| Channels: | 16 |
| Channel Spacing: | 12.5kHz |
| Mil Spec: | 810 C, D, E |
| Scan: | Normal & priority |
| Weight: | 11.6oz (with BP-265) |
| Waterproof Rating: | IP54 dust and splash proof |



FEATURES

Low battery alert with blinking LED & beep
3 Buttons
Talk around function
3-color LED (red, green & orange)
Time out timer
2-step power save
Lone worker function

SIGNALING

CTCSS / DTCS Encode/Decode
2-Tone, 5-Tone
MDC1200

- PTT ID
- Emergency Status

COMES WITH

Charger (BC-193)
Antenna (FA-SC55V or FA-SC57U)
Battery (BP-265)
Belt Clip (MB-124)
Owner's manual
Warranty: 2 years



Configurations

| Model | Description | MSRP |
|-------------|-----------------------------------------------------------------------|----------|
| F3001 03 RC | 136-174MHz radio with 1900mAh Li-ion battery & rapid charger (BC-193) | \$198.00 |
| F4001 03 RC | 400-470MHz radio with 1900mAh Li-ion battery & rapid charger (BC-193) | \$198.00 |
| F4001 43 RC | 450-512MHz radio with 1900mAh Li-ion battery & rapid charger (BC-193) | \$198.00 |

Accessories

| Model | Description | MSRP |
|------------|----------------------------------------------|---------|
| ENGRAVE | Engrave radio | \$0.00 |
| EXTWARR211 | 1 year extended warranty for a total 3 years | \$25.00 |
| EXTWARR212 | 2 year extended warranty for a total 4 years | \$44.00 |
| EXTWARR213 | 3 year extended warranty for a total 5 years | \$62.00 |

Antennas

| | | |
|-------------------|-----------------------------------------------------------|---------|
| FASC25U | 400-430MHz antenna for LM portables | \$13.00 |
| FASC25V | 136-150MHz antenna for LM portables | \$13.00 |
| FASC26US | 400-450MHz stubby antenna for LM portables | \$14.50 |
| FASC26VS | 136-144MHz stubby antenna for LM portables | \$14.50 |
| FASC27VS | 142-150MHz stubby antenna for LM portables | \$14.50 |
| FASC28V | 142-162MHz antenna for LM portables | \$13.00 |
| FASC29V | 160-174MHz antenna for LM portables | \$13.00 |
| FASC55V | 146-174MHz standard antenna for LM portables | \$13.00 |
| FASC56VS | 150-160MHz stubby antenna for LM portables | \$14.50 |
| FASC57U | 430-470MHz standard antenna for LM radios (red ring) | \$13.00 |
| FASC57VS | 160-174MHz stubby antenna for LM portables | \$14.50 |
| FASC61UC | 380-520MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC61VC | 136-174MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC62V | 150-160MHz high gain antenna for LM portables (10") | \$55.00 |
| FASC63V | 155-165MHz high gain antenna for LM portables (9.5") | \$55.00 |
| FASC72U | 470-512MHz antenna for LM portables | \$13.00 |
| FASC73US | 450-470MHz stubby antenna for LM portable radios | \$14.50 |
| LAIRD EXH 160 MXI | 155-160MHz antenna | \$26.00 |

Accessories

| Model | Description | MSRP |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------|----------|
| LARSEN SPHL10160IC | 151-163MHz helical ¼ wave antenna center tuned to 157MHz | \$26.00 |
| Batteries | | |
| BP263 | Battery case that holds 6 AA alkaline batteries | \$30.00 |
| BP264 | Ni-MH 7.2V 1400mAh | \$47.00 |
| BP265 | Li-ion 7.4V 1900mAh | \$62.00 |
| Belt Clips | | |
| MB124 | Alligator type belt clip | \$12.00 |
| Cables | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| OPC656 | DC power cable for gang charger | \$12.00 |
| Carrying Cases | | |
| LCF3000 SWIVEL | Leather carrying case with a swivel for the F3001/4001 & F3101D/4101D radios | \$50.00 |
| NCF3000 CLIP | Nylon carrying case with a clip for the F3001/4001 & F3101D/4101D radios | \$27.00 |
| Chargers | | |
| AD120 | Adapter cup that fits into the BC197 02/03 for the BP264 NiMH battery | \$23.00 |
| AD121 | Adapter cup that fits into the BC197 12/13 for the BP265 Li-ion battery | \$23.00 |
| BC123SA | AC adapter for rapid chargers; 100-240V with US style plug | \$25.00 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |
| BC147SA | AC adapter for trickle chargers; 100-240V with a US style plug | \$15.00 |
| BC147SE 15 | AC adapter for trickle chargers; 230V with a Euro style plug | \$16.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |
| BC192 12 | 110V trickle charger for the NiMH BP264 (not CEC compatible for AM radios) | \$36.00 |
| BC193 | Rapid charger for radios with BP265 Li-ion battery; 100-240V with US style plug | \$67.00 |
| BC193E | Rapid charger for radios with BP265 Li-ion battery; 100-240V with Euro style plug | \$67.00 |
| BC197 02 | Six unit charger for radios with the BP264 NiMH battery (includes AC adapter and cups installed); 100-240V with US style plug | \$510.00 |

Accessories

| Model | Description | MSRP |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------|
| BC197 03 | Six unit charger for radios with the BP264 NiMH battery (includes AC adapter and cups installed); 100-240V with Euro style plug | \$510.00 |
| BC197 12 | 110-240V six unit charger for radios with the BP265 Li-Ion battery (includes AC adapter with US plug and cups installed) | \$510.00 |
| BC197 13 | 220V six unit charger for radios with the BP265 Li-Ion battery (includes AC adapter and cups installed) | \$510.00 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| MB130 | Vehicle charger bracket holds rapid charger and requires cigarette lighter cable | \$83.00 |
| Headsets | | |
| HS94 | Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392 | \$25.00 |
| HS95 | Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392 | \$215.00 |
| HS97 | Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392 | \$42.00 |
| OPC2004 | Adapter plug to to use the HS94/95/97 for the F3001/4001/3101D/4101D & V80 | \$27.00 |
| OTTO V4EX2CS5 | Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle screw down connector) | \$145.00 |
| Manuals | | |
| 94415602 | F3001/4001 CD service manual | \$28.97 |
| 97715515 | F4001 hard copy service manual | \$0.00 |
| 97715519 | F3001 hard copy service manual | \$42.59 |
| 98815600 | F3001/4001 owner's manual | \$17.12 |
| Microphones | | |
| HM158LA | Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker) | \$47.00 |
| HM159LA | Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker) | \$77.00 |
| HM-HD7I7WP | Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector) | \$110.00 |
| IMPACT HD3-I3 | Heavy duty speaker mic w/3.5mm accessory jack (2-pin screw down connector) | \$59.00 |
| OTTO V110282 | Speaker mic earpiece(2.5mm straight plug) | \$50.00 |
| OTTO V110433 | Speaker mic earpiece (3.5mm right angle plug) | \$0.00 |
| OTTO V2C2CS11 | Legacy speaker microphone (2-pin screw down connector) | \$0.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| RedHawk | | |
| IAS BC-RHADPTR | 100-240V charger adapter for use with the IAS OPC-RHUSB | \$70.00 |
| IAS BC-RHCHG1 | 100-240V single unit charger for RedHawk mic | \$105.00 |
| IAS BC-RHCHG12 | 100-240V 12 unit charger for the RedHawk mics | \$1,000.00 |
| IAS BP-RHBATT1 | 3.8V 1200mAh battery for RedHawk mic | \$45.00 |
| IAS CP-RHLP | 12-24V cigarette lighter plug requiring 2 USB cables | \$60.00 |
| IAS CS-RHSW | Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed. | \$120.00 |
| IAS OPC-RHI2 | RedHawk 2-pin cable connects GPS mic to radio | \$93.00 |
| IAS OPC-RHUSB | USB cable to connect mic with PC or charger adapter. One comes with each microphone. | \$30.00 |
| IAS REDHAWK | Speaker microphone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required. | \$584.00 |
| Software & Cables | | |
| CSF3001 | F3001/F4001 programming software | \$72.00 |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$0.00 |
| Wire Kits | | |
| HM128L | Earphone/mic with 2-pin right angle connector | \$28.50 |
| HM153LA | Covert durable microphone with earphone combination (right angle 2-pin screw down connector) | \$125.00 |
| HM166LA | Earphone microphone with 2-pin right angle connector | \$53.00 |

F1000/S/T – F2000/S/T Series

Entry Level Analog Portables

SPECS

| | |
|--------------------|------------------------------------------------------------------------|
| Frequencies: | 136-174, 400-470, 450-512MHz |
| Output Power: | 5W (VHF); 4W (UHF) |
| Channels: | 16 or 128 (S/T) |
| Channel Spacing: | 12.5kHz |
| Mil Spec: | MIL-STD 810 C,D,E,F,G, |
| Weight: | 8.47oz (with BP-279) |
| Waterproof Rating: | IP67 dust-tight and waterproof protection |
| Versions: | With full keypad With simple keypad Without LCD and front keypad |



FEATURES

Enhanced emergency with built-in motion sensor
Selective calling, quiet sand-by and more
Channel announcement
Built-in inversion voice scrambler
8 DTMF autodial memories
“Shift key” function increases number of programmable key assignments
Surveillance function
Escalating alarm

SIGNALING

CTCSS / DTCS encode & decode
Built-In 2-Tone, 5-Tone
MDC1200 16 channel version

- PTT ID (transmit only)
- Emergency Call (transmit only)

MDC1200 S/T version

- PTT ID (Tx/Rx)
- Emergency (Tx/Rx)
- Radio check (Rx)
- Stun/revive (Rx)
- Transmit status message
- 100 alias table

COMES WITH

Antenna (FA-SC55V, FA-SC57U or FA-SC72U)
Battery pack (BP-279)
Belt Clip (MB-133)
Charger (BC-213 on some versions)
Warranty: 2 years



Configurations

| Model | Description | MSRP |
|------------|-------------------------------------------------------------------|----------|
| F1000 RC | 136-174MHz 16 CH, no display, analog portable with rapid charger | \$260.00 |
| F1000S RC | 136-174MHz, 128 CH, LCD, 4-key analog portable with rapid charger | \$340.00 |
| F1000T RC | 136-174MHz, 128CH, LCD, full DTMF keypad analog portable w/BC213 | \$370.00 |
| F2000L RC | 400-470MHz 16 channel, no display, charger in box | \$260.00 |
| F2000SL RC | 400-470MHz, 128 CH, LCD, 4-key, charger in the box | \$340.00 |
| F2000TL RC | 400-470MHz, 128 CH, LCD, full DTMF keypad with BC213 | \$370.00 |
| F2000H RC | 450-512MHz analog handheld, 16 CH, no LCD; BC213 included | \$260.00 |
| F2000SH RC | 450-512MHz, 128 CH, LCD, 4-key with rapid charger | \$340.00 |
| F2000T 78 | 450-512MHz, 128 CH, LCD, full DTMF keypad | \$0.00 |

Accessories

| Model | Description | MSRP |
|-----------------|-----------------------------------------------------------|---------|
| ENGRAVE | Engrave radio | \$0.00 |
| EXTWARR211 | 1 year extended warranty for a total 3 years | \$25.00 |
| EXTWARR212 | 2 year extended warranty for a total 4 years | \$44.00 |
| EXTWARR213 | 3 year extended warranty for a total 5 years | \$62.00 |
| Antennas | | |
| FASC25U | 400-430MHz antenna for LM portables | \$13.00 |
| FASC25V | 136-150MHz antenna for LM portables | \$13.00 |
| FASC26US | 400-450MHz stubby antenna for LM portables | \$14.50 |
| FASC26VS | 136-144MHz stubby antenna for LM portables | \$14.50 |
| FASC27VS | 142-150MHz stubby antenna for LM portables | \$14.50 |
| FASC28V | 142-162MHz antenna for LM portables | \$13.00 |
| FASC29V | 160-174MHz antenna for LM portables | \$13.00 |
| FASC55V | 146-174MHz standard antenna for LM portables | \$13.00 |
| FASC56VS | 150-160MHz stubby antenna for LM portables | \$14.50 |
| FASC57U | 430-470MHz standard antenna for LM radios (red ring) | \$13.00 |
| FASC57VS | 160-174MHz stubby antenna for LM portables | \$14.50 |
| FASC61UC | 380-520MHz cut antenna for the specific frequency desired | \$19.00 |

Accessories

| Model | Description | MSRP |
|-----------------------|-----------------------------------------------------------------------------------------------|----------|
| FASC61VC | 136-174MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC62V | 150-160MHz high gain antenna for LM portables (10") | \$55.00 |
| FASC63V | 155-165MHz high gain antenna for LM portables (9.5") | \$55.00 |
| FASC72U | 470-512MHz antenna for LM portables | \$13.00 |
| FASC73US | 450-470MHz stubby antenna for LM portable radios | \$14.50 |
| Batteries | | |
| BP279 | Li-ion 7.2V 1485mAh battery | \$70.00 |
| BP280 | Li-ion 7.2V 2280mAh battery | \$85.00 |
| Belt Clips | | |
| MB133 | Alligator type belt clip | \$17.00 |
| Cables | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| OPC656 | DC power cable for gang charger | \$12.00 |
| Carrying Cases | | |
| LCF1000S | Leather carrying case with a swivel for F1000/2000/D non display radios | \$50.00 |
| LCF1000SS | Leather carrying case with a swivel belt loop and cutout for the display for the F1000S/2000S | \$50.00 |
| LCF1000TS | Leather case for the F1000T/2000T with a full keypad cutout with a swivel loop | \$50.00 |
| NCF1000C | Nylon carrying case with a clip for the F1000/2000/D non display radios | \$27.00 |
| NCF1000SC | Nylon carrying case with a clip and cutout for the display F1000S/2000S | \$27.00 |
| NCF1000TC | Nylon carrying case with a clip and cutout for the display and keypad F1000T/2000T | \$27.00 |
| Chargers | | |
| AD130 | Adapter cup that fits into the BC214 for the F1000/D series | \$23.00 |
| BC123SA | AC adapter for rapid chargers; 100-240V with US style plug | \$25.00 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------|
| BC213 | Rapid charger with a US plug for radios with the BP279/BP280 battery (BC-123SA or BC242 included) | \$60.00 |
| BC213NAC | Rapid charger cup for radios with the BP279 battery (BC-123S not included) | \$35.00 |
| BC214 | Six bank charger with US plug AC adapter and cups installed | \$495.00 |
| BC214E | Six unit charger for BP279/BP280 radios (includes AC adapter with Euro plug and cups installed) | \$495.00 |
| BC214E | Six bank charger with EURO plug AC adapter and cups installed | \$495.00 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| MB130 | Vehicle charger bracket holds rapid charger and requires cigarette lighter cable | \$83.00 |
| Headsets | | |
| HS94 | Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392 | \$25.00 |
| HS94LWP | Earhook headset with boom microphone with 2-pin screw down connector for hands-free operation. | \$60.00 |
| HS95 | Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392 | \$215.00 |
| HS95LWP | Behind-the-head type with boom microphone with 2-pin screw down connector | \$290.00 |
| HS97 | Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392 | \$42.00 |
| VS4LA | PTT switch cable to communicate using the HS94/95/97 | \$115.00 |
| Microphones | | |
| HM158LA | Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker) | \$47.00 |
| HM159LA | Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker) | \$77.00 |
| HM-HD7I7WP | Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector) | \$110.00 |
| SP-AT1 | Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape) | \$31.50 |
| Software & Cables | | |
| CSF2000 | Programming software for the F1000/2000 series | \$72.00 |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$0.00 |

Accessories

| Model | Description | MSRP |
|------------------|----------------------------------------------------------------------------------------------|----------|
| Wire Kits | | |
| HM153LA | Covert durable microphone with earphone combination (right angle 2-pin screw down connector) | \$125.00 |
| HM166LA | Earphone microphone with 2-pin right angle connector | \$53.00 |

F1100D – F2100D Series

Entry Level IDAS™ Portables

SPECS

| | |
|--------------------|------------------------------------------------------------------------|
| Frequencies: | 136-174, 400-470MHz |
| Output Power: | 5W (VHF); 4W (UHF) |
| Channels: | 16 or 128 (S/T) |
| Channel Spacing: | 12.5 / 6.25 kHz |
| Mil Spec: | MIL-STD 810 C,D,E,F,G, |
| Weight: | 9.2oz (with BP-280) |
| Waterproof Rating: | IP67 dust-tight and waterproof protection |
| Versions: | With full keypad With simple keypad Without LCD and front keypad |



FEATURES

AquaQuake™
16-position rotary selector and ON/OFF volume knob
DTMF audio dial
“Shift key” function increases number of programmable key assignments
Three color LED
Channel announcement
Man down
Motion & stationary detection
Lone worker function
Surveillance function
16-code inversion analog scrambler

IDAS FEATURES

IDAS™ conventional
IDAS multi-site conventional over IP network
IDAS™ type D-single-site trunking
Analog/digital mixed mode operation
AMBE+2™ VOCODER
Over-the-Air Alias (OAA) updates the call list over the air (LCD versions)
Individual, group and all call
Status all and polling
Short data messages (LCD versions)
Call alert

COMES WITH

Antenna (FA-SC55V or FA-SC57U)
Battery pack (BP-280)
Belt Clip (MB-133)
Warranty: 2 years

SIGNALING (Analog Only)

CTCSS / DTCS
2/5 Tone
MDC1200: PTT ID transmission



Configurations

| Model | Description | MSRP |
|---------------|-----------------------------------------------------------------------------|------------|
| F1100D | 136-174MHz IDAS portable with 16 channels and no display with rapid charger | \$405.00 |
| F1100D CASE | Case of 10 F1100D handhelds including the rapid charger | \$3,780.00 |
| F1100DS | 136-174MHz IDAS portable with 128 channels, display and limited keypad | \$450.00 |
| F1100DS CASE | Case of 10 F1100DS handhelds including the rapid charger | \$4,300.00 |
| F1100DT | 136-174MHz IDAS portable with 128 channels, display and full DTMF keypad | \$500.00 |
| F1100DT CASE | Case of 10 F1100DT handhelds including the rapid charger | \$4,600.00 |
| F2100D 16 | 450-512MHz IDAS portable with 16 channels and no display | \$360.00 |
| F2100DH CASE | Case of 10 F2100D handhelds including the rapid charger | \$3,780.00 |
| F2100DS 26 | 450-512MHz IDAS portable with 128 channels, display and limited keypad | \$450.00 |
| F2100DSH CASE | Case of 10 F2100DSH handhelds including the rapid charger | \$4,300.00 |
| F2100DT 36 | 450-512MHz IDAS portable with 128 channels, LCD, full DTMF keypad | \$500.00 |
| F2100DTH CASE | Case of 10 F2100DTH handhelds including the rapid charger | \$4,600.00 |

Accessories

| Model | Description | MSRP |
|-----------------|----------------------------------------------|----------|
| EXTWARR211 | 1 year extended warranty for a total 3 years | \$25.00 |
| EXTWARR212 | 2 year extended warranty for a total 4 years | \$44.00 |
| EXTWARR213 | 3 year extended warranty for a total 5 years | \$62.00 |
| EXTWARR611 | 1 year extended warranty | \$40.00 |
| EXTWARR612 | 2 year extended warranty | \$70.00 |
| EXTWARR613 | 3 year extended warranty | \$110.00 |
| Antennas | | |
| FASC25U | 400-430MHz antenna for LM portables | \$13.00 |
| FASC25V | 136-150MHz antenna for LM portables | \$13.00 |
| FASC26US | 400-450MHz stubby antenna for LM portables | \$14.50 |
| FASC26VS | 136-144MHz stubby antenna for LM portables | \$14.50 |
| FASC27VS | 142-150MHz stubby antenna for LM portables | \$14.50 |
| FASC28V | 142-162MHz antenna for LM portables | \$13.00 |
| FASC29V | 160-174MHz antenna for LM portables | \$13.00 |

Accessories

| Model | Description | MSRP |
|-----------------------|-----------------------------------------------------------------------------------------------|----------|
| FASC55V | 146-174MHz standard antenna for LM portables | \$13.00 |
| FASC56VS | 150-160MHz stubby antenna for LM portables | \$14.50 |
| FASC57U | 430-470MHz standard antenna for LM radios (red ring) | \$13.00 |
| FASC57VS | 160-174MHz stubby antenna for LM portables | \$14.50 |
| FASC61UC | 380-520MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC61VC | 136-174MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC62V | 150-160MHz high gain antenna for LM portables (10") | \$55.00 |
| FASC63V | 155-165MHz high gain antenna for LM portables (9.5") | \$55.00 |
| FASC73US | 450-470MHz stubby antenna for LM portable radios | \$14.50 |
| Batteries | | |
| BP280 | Li-ion 7.2V 2280mAh battery | \$85.00 |
| Belt Clips | | |
| MB133 | Alligator type belt clip | \$17.00 |
| Cables | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| OPC656 | DC power cable for gang charger | \$12.00 |
| Carrying Cases | | |
| LCF1000S | Leather carrying case with a swivel for F1000/2000/D non display radios | \$50.00 |
| LCF1000SS | Leather carrying case with a swivel belt loop and cutout for the display for the F1000S/2000S | \$50.00 |
| LCF1000TS | Leather case for the F1000T/2000T with a full keypad cutout with a swivel loop | \$50.00 |
| NCF1000C | Nylon carrying case with a clip for the F1000/2000/D non display radios | \$27.00 |
| Chargers | | |
| AD130 | Adapter cup that fits into the BC214 for the F1000/D series | \$23.00 |
| BC123SA | AC adapter for rapid chargers; 100-240V with US style plug | \$25.00 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------|
| BC213 | Rapid charger with a US plug for radios with the BP279/BP280 battery (BC-123SA or BC242 included) | \$60.00 |
| BC213NAC | Rapid charger cup for radios with the BP279 battery (BC-123S not included) | \$35.00 |
| BC214 | Six bank charger with US plug AC adapter and cups installed | \$495.00 |
| BC214E | Six bank charger with EURO plug AC adapter and cups installed | \$495.00 |
| BC214E | Six unit charger for BP279/BP280 radios (includes AC adapter with Euro plug and cups installed) | \$495.00 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| MB130 | Vehicle charger bracket holds rapid charger and requires cigarette lighter cable | \$83.00 |
| Headsets | | |
| HS94LWP | Earhook headset with boom microphone with 2-pin screw down connector for hands-free operation. | \$60.00 |
| HS95LWP | Behind-the-head type with boom microphone with 2-pin screw down connector | \$290.00 |
| HS97 | Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392 | \$42.00 |
| OPC2004LA | VOX conversion cable to use the HS-97 for the F1000/D products | \$27.00 |
| VS4LA | PTT switch cable to communicate using the HS94/95/97 | \$115.00 |
| Microphones | | |
| HM158LA | Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker) | \$47.00 |
| HM159LA | Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker) | \$77.00 |
| HM-HD717WP | Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector) | \$110.00 |
| SP-AT1 | Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape) | \$31.50 |
| Software & Cables | | |
| CSF2000D | Programming software for the F1000D/2000D | \$72.00 |
| CSF2100D | Programming software for the F1100D/2100D | \$75.00 |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$0.00 |

Accessories

| Model | Description | MSRP |
|------------------|----------------------------------------------------------------------------------------------|----------|
| Wire Kits | | |
| HM153LA | Covert durable microphone with earphone combination (right angle 2-pin screw down connector) | \$125.00 |
| HM166LA | Earphone microphone with 2-pin right angle connector | \$53.00 |

F3201DEX – F4201DEX Series

IECEX/ATEX Intrinsically Safe IDAS VHF/UHF Portables

SPECS

| | |
|--------------------|---------------------------------|
| Frequencies: | 136-174, 400-470 |
| Output Power: | 1W |
| Channels: | 16 |
| Channel Spacing: | 12.5 / 6.25kHz |
| Mil Spec: | 801 C, D, E, F, G |
| Scan: | Normal & Priority |
| Weight: | 1.03lbs |
| Waterproof Rating: | IP67 dust-tight and water proof |



FEATURES

General Features:

- IEC Certifications
 - Mining : Ex ib I Mb
 - Gas : Ex ib IIC T4 Gb
 - Dust : Ex ib IIIC T110°C Db
- ATEX Certifications
 - Mining : I M2 Ex ib I Mb
 - Gas : II 2G Ex ib IIC T4 Gb
 - Dust : II 2D Ex ib IIIC T110°C Db
- Channel announcement
- DTMF autodial
- Three programmable buttons
- Low electrical resistivity body
- Man down & lone worker (analog only)

Digital Features:

- IDAS™ conventional
- IDAS™ single-site type-D trunking
- NXDN® Digital Air Interface

SIGNALING

CTCSS / DCS / DTMF encode & decode (analog)
2/5 Tone encode & decode (analog)
MDC1200 PTT ID & Emergency

COMES WITH

Antenna (FA-SC55V or FA-SC57U)
Battery (BP-227EX)
Belt Clip (MB-94EX)
Charger (BC-212EX)
Owner's Manual
Warranty: 2 years



Configurations

| Model | Description | MSRP |
|-------------|--------------------------------------------------|------------|
| F3201DEX 14 | 136-174MHz ATEX intrinsically safe IDAS portable | \$1,250.00 |
| F4201DEX 24 | 400-470MHz ATEX intrinsically safe IDAS portable | \$1,250.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|--------------------------------------------------------------------------------------|----------|
| Antennas | | |
| FASC25U | 400-430MHz antenna for LM portables | \$13.00 |
| FASC25V | 136-150MHz antenna for LM portables | \$13.00 |
| FASC26US | 400-450MHz stubby antenna for LM portables | \$14.50 |
| FASC26VS | 136-144MHz stubby antenna for LM portables | \$14.50 |
| FASC27VS | 142-150MHz stubby antenna for LM portables | \$14.50 |
| FASC28V | 142-162MHz antenna for LM portables | \$13.00 |
| FASC29V | 160-174MHz antenna for LM portables | \$13.00 |
| FASC55V | 146-174MHz standard antenna for LM portables | \$13.00 |
| FASC57U | 430-470MHz standard antenna for LM radios (red ring) | \$13.00 |
| Batteries | | |
| BP277EX | Li-ion 7.4V 1900mAh (typical capacity), 1800mAh (minimum value) blue battery | \$400.00 |
| Belt Clips | | |
| MB94EX | Blue alligator belt clip for F3201DEX/4201DEX | \$17.00 |
| Chargers | | |
| BC212EX | Rapid charger (includes BC213SA) for F3201DEX/4201DEX | \$130.00 |
| Microphones | | |
| HM203EX | Blue speaker microphone for F3201DEX/4201DEX | \$210.00 |
| Software & Cables | | |
| CSF3101D/F5121D | F3101D/F5121D series programming software | \$72.00 |
| OPC1862 | USB programming cloning cable for radios with 14-pin connector | \$189.00 |
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$0.00 |

F3210D – F4210D Series

Entry Level IDAS™ Trunking Portables

SPECS

| | |
|--------------------|------------------------------|
| Frequencies: | 136-174, 400-470, 450-512 |
| Output Power: | 5W (VHF); 4W (UHF) |
| Channels: | 16 |
| Channel Spacing: | 15 / 12.5 / 6.25kHz |
| Mil Spec: | 810 C, D, E and -F |
| Scan: | Priority/Vote/Roaming scan |
| Weight: | 11.3oz (with MB-124, BP-265) |
| Waterproof Rating: | IP54 dust and splash proof |



FEATURES

General Features:

- 800mW loud audio output from the large 45mm speaker
- Channel announcement
- Internal VOX capability
- Low battery alert
- Time out timer
- Lone worker function
- 2-step power save
- Talk around function
- Surveillance function

Digital Features:

- IDAS™ conventional
- IDAS multi-site and single-site trunking and IDAS multi-site conventional
- PTT ID (TX)
- Block decode
- Radio check (RX)
- Call alert
- Emergency
- GPS (TX with HM-171GP)
- Individual/Group call
- RAN (Radio Access Number)
- Stun/kill/revive (RX)
- Remote monitor (RX)

SIGNALING

CTCSS / DTCSS encode & decode
(analog only)

COMES WITH

Antenna (FA-SC55V or FA-SC57U)
Battery (BP-265)
Charger (BC-193)
Belt Clip (MB-124)
Owner's manual
Warranty: 2 years

IP54
DUST PROTECTION
& SPLASH PROOF



IDAS
ICOM DIGITAL ADVANCED SYSTEM

Configurations

| Model | Description | MSRP |
|-----------|---------------------------------------------------------------------------|----------|
| F3210D 01 | 136-174MHz IDAS 16 channel MultiTrunk portable with rapid charger (BC193) | \$485.00 |
| F4210D 01 | 400-470MHz IDAS 16 channel MultiTrunk portable with rapid charger (BC193) | \$485.00 |
| F4210D 21 | 450-512MHz IDAS 16 channel MultiTrunk portable with rapid charger (BC193) | \$485.00 |

Accessories

| Model | Description | MSRP |
|------------|-----------------------------------------------------------|---------|
| ENGRAVE | Engrave radio | \$0.00 |
| EXTWARR211 | 1 year extended warranty for a total 3 years | \$25.00 |
| EXTWARR212 | 2 year extended warranty for a total 4 years | \$44.00 |
| EXTWARR213 | 3 year extended warranty for a total 5 years | \$62.00 |
| QCRRS01 | 3 year comprehensive radio repair service for IDAS radios | \$0.00 |

Antennas

| | | |
|----------|-----------------------------------------------------------|---------|
| FASC25U | 400-430MHz antenna for LM portables | \$13.00 |
| FASC25V | 136-150MHz antenna for LM portables | \$13.00 |
| FASC26US | 400-450MHz stubby antenna for LM portables | \$14.50 |
| FASC26VS | 136-144MHz stubby antenna for LM portables | \$14.50 |
| FASC27VS | 142-150MHz stubby antenna for LM portables | \$14.50 |
| FASC28V | 142-162MHz antenna for LM portables | \$13.00 |
| FASC29V | 160-174MHz antenna for LM portables | \$13.00 |
| FASC55V | 146-174MHz standard antenna for LM portables | \$13.00 |
| FASC56VS | 150-160MHz stubby antenna for LM portables | \$14.50 |
| FASC57U | 430-470MHz standard antenna for LM radios (red ring) | \$13.00 |
| FASC57VS | 160-174MHz stubby antenna for LM portables | \$14.50 |
| FASC61UC | 380-520MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC61VC | 136-174MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC62V | 150-160MHz high gain antenna for LM portables (10") | \$55.00 |
| FASC63V | 155-165MHz high gain antenna for LM portables (9.5") | \$55.00 |
| FASC72U | 470-512MHz antenna for LM portables | \$13.00 |
| FASC73US | 450-470MHz stubby antenna for LM portable radios | \$14.50 |

Accessories

| Model | Description | MSRP |
|--------------------|--------------------------------------------------------------------------------------------------------------------------|----------|
| LARSEN SPHL10160IC | 151-163MHz helical ¼ wave antenna center tuned to 157MHz | \$26.00 |
| Batteries | | |
| BP263 | Battery case that holds 6 AA alkaline batteries | \$30.00 |
| BP265 | Li-ion 7.4V 1900mAh | \$62.00 |
| Belt Clips | | |
| MB124 | Alligator type belt clip | \$12.00 |
| Cables | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| OPC656 | DC power cable for gang charger | \$12.00 |
| Chargers | | |
| AD121 | Adapter cup that fits into the BC197 12/13 for the BP265 Li-ion battery | \$23.00 |
| BC123SA | AC adapter for rapid chargers; 100-240V with US style plug | \$25.00 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |
| BC193 | Rapid charger for radios with BP265 Li-ion battery; 100-240V with US style plug | \$67.00 |
| BC193E | Rapid charger for radios with BP265 Li-ion battery; 100-240V with Euro style plug | \$67.00 |
| BC197 12 | 110-240V six unit charger for radios with the BP265 Li-Ion battery (includes AC adapter with US plug and cups installed) | \$510.00 |
| BC197 13 | 220V six unit charger for radios with the BP265 Li-Ion battery (includes AC adapter and cups installed) | \$510.00 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| MB130 | Vehicle charger bracket holds rapid charger and requires cigarette lighter cable | \$83.00 |
| Headsets | | |
| HS94 | Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392 | \$25.00 |
| HS95 | Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392 | \$215.00 |
| HS97 | Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392 | \$42.00 |
| OPC2004 | Adapter plug to to use the HS94/95/97 for the F3001/4001/3101D/4101D & V80 | \$27.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------|
| Manuals | | |
| 94416646 | F3210D/4210D service manual - CD | \$28.97 |
| 97716645 | F3210D/4210D service manual - hardcopy | \$32.33 |
| 98816644 | F3210D/4210D owner's manual | \$17.12 |
| Microphones | | |
| HM158LA | Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker) | \$47.00 |
| HM159LA | Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker) | \$77.00 |
| HM-HD7I7WP | Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector) | \$110.00 |
| IMPACT HD3-I3 | Heavy duty speaker mic w/3.5mm accessory jack (2-pin screw down connector) | \$59.00 |
| SP27 | Acoustic tube earphone with a clip (3.5mm) | \$35.00 |
| Software & Cables | | |
| CSF3210D | Programming software for F3210D/4210D, F3230D/4230D & F5220D/6220D | \$72.00 |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$0.00 |
| Wire Kits | | |
| HM128L | Earphone/mic with 2-pin right angle connector | \$28.50 |
| HM153LA | Covert durable microphone with earphone combination (right angle 2-pin screw down connector) | \$125.00 |
| HM166LA | Earphone microphone with 2-pin right angle connector | \$53.00 |

F3230D – F4230D Series

IDAS Trunking Portables

SPECS

| | |
|--------------------|---------------------------------------------------------------|
| Frequencies: | 136-174, 400-470, 450-512 |
| Output Power: | 5W (VHF); 4W (UHF) |
| Channels: | 128 channels / 8 zones |
| Channel Spacing: | 12.5 / 6.25kHz |
| LCD Display: | 8-character alphanumeric LCD |
| Mil Spec: | MIL 810G Also meets equivalent MIL-STD-810C, -D, -E and -F |
| Scan: | Roaming / Voting scan |
| Weight: | 12oz (W/BP-232WP) |
| Waterproof Rating: | IP67 dust-tight and water proof |



FEATURES

General Features:

- Channel announcement
- Low battery alert
- 2-step power save
- Time out timer
- BTL amp with 1000mW audio output
- Lone worker function

Digital Features:

- IDAS™ conventional
- IDAS multi-site and single-site trunking and IDAS multi-site conventional
- Up to 500 individual and up to 500 group ID aliases (Each for single-site/multi-site/conventional)
- PTT ID and ANI
- SDM (Short Data Message)
- Status
- RAN (Radio Access Number)
- Radio check (RX)
- Call alert
- Remote monitor (RX)
- Digital voice scrambler
- ATB (All Trunks Busy) ring back

SIGNALING

CTCSS / DTCSS encode & decode (analog only)

COMES WITH

Antenna (FA-SC55V, FA-SC57U or FA-SC72U)
Battery (BP-232WP)
Belt Clip (MB-94R)
Charger (BC-160)
Owner's manual
Warranty: 3 years



Configurations

| Model | Description | MSRP |
|------------|------------------------------------------------------------------------------------------|----------|
| F3230DS 13 | 136-174MHz IDAS 128 channel MultiTrunk portable with display. Charger (BC-160) included. | \$535.00 |
| F4230DS 13 | 400-470MHz IDAS 128 channel MultiTrunk portable with display. Charger (BC-160) included. | \$535.00 |
| F4230DS 32 | 450-512MHz IDAS 128 channel MultiTrunk portable with display. Charger (BC-160) included. | \$535.00 |

Accessories

| Model | Description | MSRP |
|------------|-----------------------------------------------------------|----------|
| ENGRAVE | Engrave radio | \$0.00 |
| EXTWARR611 | 1 year extended warranty | \$40.00 |
| EXTWARR612 | 2 year extended warranty | \$70.00 |
| EXTWARR613 | 3 year extended warranty | \$110.00 |
| QCRRS01 | 3 year comprehensive radio repair service for IDAS radios | \$0.00 |

Antennas

| | | |
|----------|-----------------------------------------------------------|---------|
| FASC25U | 400-430MHz antenna for LM portables | \$13.00 |
| FASC25V | 136-150MHz antenna for LM portables | \$13.00 |
| FASC26US | 400-450MHz stubby antenna for LM portables | \$14.50 |
| FASC26VS | 136-144MHz stubby antenna for LM portables | \$14.50 |
| FASC27VS | 142-150MHz stubby antenna for LM portables | \$14.50 |
| FASC28V | 142-162MHz antenna for LM portables | \$13.00 |
| FASC29V | 160-174MHz antenna for LM portables | \$13.00 |
| FASC55V | 146-174MHz standard antenna for LM portables | \$13.00 |
| FASC56VS | 150-160MHz stubby antenna for LM portables | \$14.50 |
| FASC57U | 430-470MHz standard antenna for LM radios (red ring) | \$13.00 |
| FASC57VS | 160-174MHz stubby antenna for LM portables | \$14.50 |
| FASC61UC | 380-520MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC61VC | 136-174MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC62V | 150-160MHz high gain antenna for LM portables (10") | \$55.00 |
| FASC63V | 155-165MHz high gain antenna for LM portables (9.5") | \$55.00 |
| FASC72U | 470-512MHz antenna for LM portables | \$13.00 |
| FASC73US | 450-470MHz stubby antenna for LM portable radios | \$14.50 |

Accessories

| Model | Description | MSRP |
|-----------------------|-------------------------------------------------------------------------------------------------|----------|
| LAIRD EXH 160 MXI | 155-160MHz antenna | \$26.00 |
| LARSEN SPHL10160IC | 151-163MHz helical ¼ wave antenna center tuned to 157MHz | \$26.00 |
| Batteries | | |
| BP232WP | Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value) IP67 waterproof battery | \$75.00 |
| Belt Clips | | |
| AW STUD/SWIVEL KIT | Metal stud that slides on like a belt clip and it's attached to a strong metal swivel belt clip | \$21.00 |
| AW SWIVEL | Swivel clip used with the AW Stud/Swivel Kit. | \$13.00 |
| MB93 | Swivel belt clip | \$11.00 |
| MB94 | Alligator belt clip | \$10.50 |
| MB94R | Alligator belt clip with long clip that angles the antenna/top of radio off the body | \$18.00 |
| MB96N | Swivel belt hanger to use with standard belt clip | \$37.00 |
| Cables | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| OPC656 | DC power cable for gang charger | \$12.00 |
| Carrying Cases | | |
| LCF3021S SWIVEL | Leather carrying case with a metal swivel clip and cutout for the display | \$50.00 |
| NCF3021S CLIP | Nylon carrying case with a clip and cutout for the display | \$27.00 |
| Chargers | | |
| AD106 | Adapter cup for the BC119N/BC121N for the radios with the BP232N/H battery | \$28.00 |
| AD122 | Adapter cup that fits into the BC197 22/23 for the BP232N/H batteries | \$23.00 |
| BC145SA 31 | AC adapter for BC119N; 100-240V with US style plug | \$25.00 |
| BC147SA | AC adapter for trickle chargers; 100-240V with a US style plug | \$15.00 |
| BC147SE 15 | AC adapter for trickle chargers; 230V with a Euro style plug | \$16.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |
| BC160 | Rapid charger for radios with the BP230/231/232 battery; 100-240V with a US style plug | \$70.00 |
| BC160E | Rapid charger for radios with the BP230/231/232 battery; 100-240V with a Euro style plug | \$70.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------|
| BC197 22 | Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with US style plug | \$510.00 |
| BC197 23 | Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with Euro style plug | \$510.00 |
| Headsets | | |
| HS94 | Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392 | \$25.00 |
| HS95 | Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392 | \$215.00 |
| HS97 | Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392 | \$42.00 |
| VS1L | VOX/PTT case with 2-pin right angle connector. Must use with HS94/HS95/HS97 | \$44.00 |
| Manuals | | |
| 94416677 | F3230D service manual - CD | \$28.97 |
| 94416679 | F4230D Service manual - CD | \$0.00 |
| 97716676 | F3230D Service manual - hardcopy | \$0.00 |
| 97716678 | F4230D Service manual - hardcopy | \$0.00 |
| 98816675 | F3230D/4230D Owner's manual | \$0.00 |
| Microphones | | |
| HM158LA | Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker) | \$47.00 |
| HM159LA | Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker) | \$77.00 |
| HM-HD7I7WP | Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector) | \$110.00 |
| Software & Cables | | |
| CSF3210D | Programming software for F3210D/4210D, F3230D/4230D & F5220D/6220D | \$72.00 |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$0.00 |
| Wire Kits | | |
| HM153LA | Covert durable microphone with earphone combination (right angle 2-pin screw down connector) | \$125.00 |

Accessories

| Model | Description | MSRP |
|---------|------------------------------------------------------|---------|
| HM166LA | Earphone microphone with 2-pin right angle connector | \$53.00 |

F3161 – F4161 / F3161D – F4161D Series

Analog, LTR®, Digital Portables

SPECS

| | |
|--------------------|-----------------------------------------------------------|
| Frequencies: | 136-174, 400-470, 450-512MHz |
| Output Power: | 5W |
| Channels: | 512 / 128 zones |
| Channel Spacing: | 12.5 kHz; 6.25kHz (D versions) |
| LCD Display: | Full dot-matrix |
| Programmable Keys: | 8 |
| Mil Spec: | 810 C, D, E, F |
| Scan: | Normal & priority |
| Weight: | 12oz (with BP-232H) |
| Waterproof Rating: | IP55 dust and spraying water protection |
| Version: | Analog and digital upgradable Analog and digital ready |

“D” Signifies IDAS Ready



FEATURES

General Features

- Basic LTR® / conventional analog
- Lone worker function
- 2 step reduced power setting
- Busy, repeater lockout function
- Escalating alarm
- Surveillance function (temp. turns LEDs off)

Digital Features

- IDAS™ conventional
- IDAS multi-site conventional
- IDAS multi-site and single-site type-D trunking Voting mode scanning
- Digital/analog mixed mode
- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- Short & long data messages
- 64 Radio Access Numbers (RAN)
- Individual & group selective call
- Strongest site search
- Firmware upgrade over IP
- Configuration over IP

COMES WITH

Antenna (FA-SC55V or FA-SC57U)
Battery (BP-232H)
Belt clip (MB-94)
Owner's manual
Warranty: 3 years

SIGNALING

MDC1200 (analog & LTR)
CTCSS/DCS encode & decode
DTMF decode
2/5 tone encode/decode
PassPort® (F4161S 56 only)

ENCRYPTION

Inversion scrambler built-in
Simple Inversion: UT-109R 32 Codes
Rolling Code: UT-110R 1020 Codes

MULTITRUNK



IP55
DUST & SPRAYING
WATER PROTECTION



OTTO
ACCESSORIES
AVAILABLE



Configurations

| Model | Description | MSRP |
|-----------|----------------------------------------------|----------|
| F3161S 56 | 136-174MHz analog only radio, no DTMF keypad | \$578.00 |

Accessories

| Model | Description | MSRP |
|---------------------|----------------------------------------|----------|
| ENGRAVE | Engrave radio | \$0.00 |
| EXTWARR611 | 1 year extended warranty | \$40.00 |
| EXTWARR612 | 2 year extended warranty | \$70.00 |
| EXTWARR613 | 3 year extended warranty | \$110.00 |
| RR FIRMWARE UPGRADE | Add 3.1 RR firmware to your IDAS radio | \$16.66 |

Antennas

| | | |
|--------------------|-----------------------------------------------------------|---------|
| FASC25U | 400-430MHz antenna for LM portables | \$13.00 |
| FASC25V | 136-150MHz antenna for LM portables | \$13.00 |
| FASC26US | 400-450MHz stubby antenna for LM portables | \$14.50 |
| FASC26VS | 136-144MHz stubby antenna for LM portables | \$14.50 |
| FASC27VS | 142-150MHz stubby antenna for LM portables | \$14.50 |
| FASC28V | 142-162MHz antenna for LM portables | \$13.00 |
| FASC29V | 160-174MHz antenna for LM portables | \$13.00 |
| FASC55V | 146-174MHz standard antenna for LM portables | \$13.00 |
| FASC56VS | 150-160MHz stubby antenna for LM portables | \$14.50 |
| FASC57U | 430-470MHz standard antenna for LM radios (red ring) | \$13.00 |
| FASC57VS | 160-174MHz stubby antenna for LM portables | \$14.50 |
| FASC61UC | 380-520MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC61VC | 136-174MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC62V | 150-160MHz high gain antenna for LM portables (10") | \$55.00 |
| FASC63V | 155-165MHz high gain antenna for LM portables (9.5") | \$55.00 |
| FASC72U | 470-512MHz antenna for LM portables | \$13.00 |
| FASC73US | 450-470MHz stubby antenna for LM portable radios | \$14.50 |
| LAIRD EXH 160 MXI | 155-160MHz antenna | \$26.00 |
| LARSEN SPHL10160IC | 151-163MHz helical ¼ wave antenna center tuned to 157MHz | \$26.00 |

Accessories

| Model | Description | MSRP |
|-----------------------|-------------------------------------------------------------------------------------------------|----------|
| Batteries | | |
| BP232H | Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value) | \$75.00 |
| BP240 | Battery case that holds 6 AAA alkaline batteries (1W output power) | \$35.00 |
| Belt Clips | | |
| AW STUD/SWIVEL KIT | Metal stud that slides on like a belt clip and it's attached to a strong metal swivel belt clip | \$21.00 |
| AW SWIVEL | Swivel clip used with the AW Stud/Swivel Kit. | \$13.00 |
| MB93 | Swivel belt clip | \$11.00 |
| MB94 | Alligator belt clip | \$10.50 |
| MB94R | Alligator belt clip with long clip that angles the antenna/top of radio off the body | \$18.00 |
| MB96N | Swivel belt hanger to use with standard belt clip | \$37.00 |
| Cables | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| OPC656 | DC power cable for gang charger | \$12.00 |
| Carrying Cases | | |
| LCF3061S SWIVEL | Leather case for the F3161/4161 with a swivel clip | \$50.00 |
| LCF3061T SWIVEL | Leather case for the F3161/4161 with a full keypad cutout with a swivel belt clip | \$50.00 |
| NCF3061S LOOP | Nylon case with a loop for the F3161S/4161S radios without a DTMF cutout | \$25.00 |
| NCF3061T LOOP | Nylon carrying case with a loop for the F3161T/4161T radios with a full keypad | \$25.00 |
| Chargers | | |
| AD106 | Adapter cup for the BC119N/BC121N for the radios with the BP232N/H battery | \$28.00 |
| AD122 | Adapter cup that fits into the BC197 22/23 for the BP232N/H batteries | \$23.00 |
| BC119N 02 | Rapid charger requiring radio specific adapter cup; 100-240V w/Euro style plug | \$76.00 |
| BC145SA 31 | AC adapter for BC119N; 100-240V with US style plug | \$25.00 |
| BC147SA | AC adapter for trickle chargers; 100-240V with a US style plug | \$15.00 |
| BC147SE 15 | AC adapter for trickle chargers; 230V with a Euro style plug | \$16.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |

Accessories

| Model | Description | MSRP |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------|
| BC160 | Rapid charger for radios with the BP230/231/232 battery; 100-240V with a US style plug | \$70.00 |
| BC160E | Rapid charger for radios with the BP230/231/232 battery; 100-240V with a Euro style plug | \$70.00 |
| BC197 22 | Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with US style plug | \$510.00 |
| BC197 23 | Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with Euro style plug | \$510.00 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| IA-BC171 | Heavy duty vehicular charger for the F3161/F4161 series | \$375.00 |
| IA-TC100A | Travel charger piece the BC-160/BC-171 fits into. Req CP1/CP17L or OPC515L | \$0.00 |
| MB130 | Vehicle charger bracket holds rapid charger and requires cigarette lighter cable | \$83.00 |
| SS BC61 | Mobile rapid charger with cigarette adapter for the F3161 & F3261 series | \$215.00 |
| Encryption & Internal Modules | | |
| INSTALL-MF | Install a component into an LM mobile or portable | \$0.00 |
| UT109R 21 | Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110. | \$105.00 |
| UT110R 21 | Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. Works only in analog mode. | \$173.00 |
| UT126H 03 | 6.25kHz digital module for old PLL versions of the F3161/4161 or F5061/6061 radios | \$250.00 |
| Headsets | | |
| HS94 | Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392 | \$25.00 |
| HS95 | Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392 | \$215.00 |
| HS97 | Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392 | \$42.00 |
| OTTO V410514 | Lightweight single speaker w/in-line ptt, padded headband (9-pin connector) | \$155.00 |
| VS1SC | VOX/PTT case with 9-pin connector. Must use with HS94/HS95/HS97. | \$68.00 |
| Manuals | | |
| 94415081 | F3161/4161/D & F3061/4061 CD service manual | \$0.00 |
| 97715082 | F3161/D service manual - hardcopy | \$0.00 |
| 97715154U | F4161/D service manual-hardcopy | \$0.00 |
| 98815083 | F3161/4161/D & F3061/4061 owner's manual | \$0.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Microphones | | |
| HM131SC | Lightweight speaker microphone with earphone jack (9-pin) | \$79.00 |
| HM159SC LG | Large speaker microphone with earphone jack and metal alligator clip (9-pin, stereo mic/mono speaker) | \$92.00 |
| HM169 | Waterproof speaker mic (9-pin) | \$105.00 |
| HM169 IS | Intrinsically safe waterproof speaker mic (9-pin) | \$145.00 |
| IMPACT HD3-I5 | Heavy duty use speaker mic with 3.5mm accessory jack (9-pin) | \$76.00 |
| OTTO V110282 | Speaker mic earpiece(2.5mm straight plug) | \$50.00 |
| OTTO V110433 | Speaker mic earpiece (3.5mm right angle plug) | \$0.00 |
| SP-AT1 | Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape) | \$31.50 |
| RedHawk | | |
| IAS BC-RHADPTR | 100-240V charger adapter for use with the IAS OPC-RHUSB | \$70.00 |
| IAS BC-RHCHG1 | 100-240V single unit charger for RedHawk mic | \$105.00 |
| IAS BC-RHCHG12 | 100-240V 12 unit charger for the RedHawk mics | \$1,000.00 |
| IAS BP-RHBATT1 | 3.8V 1200mAh battery for RedHawk mic | \$45.00 |
| IAS CP-RHLP | 12-24V cigarette lighter plug requiring 2 USB cables | \$60.00 |
| IAS CS-RHSW | Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed. | \$120.00 |
| IAS OPC-RHI9 | RedHawk 9-pin cable connects GPS mic to radio (works in analog only) | \$99.00 |
| IAS OPC-RHUSB | USB cable to connect mic with PC or charger adapter. One comes with each microphone. | \$30.00 |
| IAS REDHAWK | Speaker microphone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required. | \$584.00 |
| Software & Cables | | |
| CSF3161/F5061 | Software to program the F3161/4161 & F5061/6061 radios | \$72.00 |
| OPC966U | USB programming cloning cable for radios with 9-pin connector | \$168.00 |
| PROGLM6789 | Icom to program your radio or IAS product | \$70.00 |
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$0.00 |
| Wire Kits | | |
| OTTO V110822 | 2-Wire palm mic kit (earphone cable and mic/ptt cable) with 9-pin connector | \$125.00 |

F3261D – F4261D Series

Waterproof Analog, LTR®, & IDAS Digital Portables

SPECS

| | |
|--------------------|------------------------------------|
| Frequencies: | 136-174, 400-470, 450-512MHz |
| Output Power: | 5W |
| Channels: | 512 / 128 zones |
| Channel Spacing: | 12.5 & 6.25kHz |
| Mil Spec: | 810 C, D, E |
| Scan: | Normal & priority |
| Weight: | 14.1oz (with BP-232WP) |
| Waterproof Rating: | IP67 submersible & dust protection |



FEATURES

General Features

- Basic LTR® / Conventional / IDAS
- GPS built-in
- Lone worker function
- 2 step reduced power setting
- Busy, repeater lockout function
- Escalating alarm
- Surveillance function temporarily turns off the LED backlight and beep sound
- Detects both analog & IDAS conventional signals and automatically selects the transmission mode to reply to received call

Digital Features

- IDAS™ conventional
- IDAS multi-site and single-site trunking and IDAS multi-site conventional
- Voting mode scanning
- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- Short & long data messages
- 64 Radio Access Numbers (RAN)
- Individual & group selective call
- Strongest site search

COMES WITH

Antenna (FA-SC55V or FA-SC57U)
Battery (BP-232WP)
Belt clip (MB-94R)
Owner's manual
Warranty: 3 years

SIGNALING

MDC1200 (analog & LTR)
CTCSS/DCS encode & decode
DTMF decode
2/5 tone encode & decode

ENCRYPTION

Inversion scrambler built-in. Digital voice scrambler provides 15-bit key (about 32K codes)



MULTITRUNK



Configurations

| Model | Description | MSRP |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| F3261DS 55 | 136-174MHz waterproof IDAS radio with GPS, no DTMF keypad | \$800.00 |
| F3261DT 40 | 136-174MHz waterproof IDAS radio with GPS, full DTMF keypad | \$845.00 |
| F3261DT NI | 136-174MHz nonincendive rated waterproof IDAS radio, full DTMF keypad | \$845.00 |
| F3261DT 35 RR | Railroad specific version: 136-174MHz 512 channel, IDAS waterproof portable radio with a DTMF keypad and GPS. Special railroad firmware installed. | \$880.00 |
| F4261DS 65 | 400-470MHz waterproof IDAS radio with GPS, no DTMF keypad | \$800.00 |
| F4261DT 55 | 400-470MHz waterproof IDAS radio with GPS, full DTMF keypad | \$845.00 |
| F4261DS 90 | 450-512MHz waterproof IDAS radio with GPS, no DTMF keypad | \$800.00 |
| F4261DT 85 | 450-512MHz waterproof IDAS radio with GPS, full DTMF keypad | \$845.00 |
| F4261DT NI-1 | 400-470MHz nonincendive rated waterproof IDAS radio, full DTMF keypad | \$845.00 |
| F4261DT NI-2 | 450-512MHz nonincendive rated waterproof IDAS radio, full DTMF keypad | \$845.00 |

Accessories

| Model | Description | MSRP |
|-----------------|-----------------------------------------------------------|----------|
| ENGRAVE | Engrave radio | \$0.00 |
| EXTWARR611 | 1 year extended warranty | \$40.00 |
| EXTWARR612 | 2 year extended warranty | \$70.00 |
| EXTWARR613 | 3 year extended warranty | \$110.00 |
| QCRRS01 | 3 year comprehensive radio repair service for IDAS radios | \$0.00 |
| Antennas | | |
| FASC25U | 400-430MHz antenna for LM portables | \$13.00 |
| FASC25V | 136-150MHz antenna for LM portables | \$13.00 |
| FASC26US | 400-450MHz stubby antenna for LM portables | \$14.50 |
| FASC26VS | 136-144MHz stubby antenna for LM portables | \$14.50 |
| FASC27VS | 142-150MHz stubby antenna for LM portables | \$14.50 |
| FASC28V | 142-162MHz antenna for LM portables | \$13.00 |
| FASC29V | 160-174MHz antenna for LM portables | \$13.00 |
| FASC55V | 146-174MHz standard antenna for LM portables | \$13.00 |
| FASC56VS | 150-160MHz stubby antenna for LM portables | \$14.50 |
| FASC57U | 430-470MHz standard antenna for LM radios (red ring) | \$13.00 |

Accessories

| Model | Description | MSRP |
|-----------------------|------------------------------------------------------------------------------------------------------|----------|
| FASC57VS | 160-174MHz stubby antenna for LM portables | \$14.50 |
| FASC61UC | 380-520MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC61VC | 136-174MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC62V | 150-160MHz high gain antenna for LM portables (10") | \$55.00 |
| FASC63V | 155-165MHz high gain antenna for LM portables (9.5") | \$55.00 |
| FASC72U | 470-512MHz antenna for LM portables | \$13.00 |
| FASC73US | 450-470MHz stubby antenna for LM portable radios | \$14.50 |
| LAIRD EXH 160 MXI | 155-160MHz antenna | \$26.00 |
| LARSEN SPHL10160IC | 151-163MHz helical ¼ wave antenna center tuned to 157MHz | \$26.00 |
| Batteries | | |
| BP232UL | Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value) for the nonincendive approved radios | \$175.00 |
| BP232WP | Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value) IP67 waterproof battery | \$75.00 |
| BP240 | Battery case that holds 6 AAA alkaline batteries (1W output power) | \$35.00 |
| Belt Clips | | |
| MB93 | Swivel belt clip | \$11.00 |
| MB94 | Alligator belt clip | \$10.50 |
| MB94R | Alligator belt clip with long clip that angles the antenna/top of radio off the body | \$18.00 |
| MB96N | Swivel belt hanger to use with standard belt clip | \$37.00 |
| Cables | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| OPC656 | DC power cable for gang charger | \$12.00 |
| Carrying Cases | | |
| LCF3261S SWIVEL | Leather carrying case with a swivel clip and cutout for the display for F3261 | \$50.00 |
| LCF3261T SWIVEL | Leather carrying case with a swivel clip and cutout for the DTMF keypad for F3261 series | \$50.00 |
| NCF3261S CLIP | Nylon carrying case with a clip and cutout for the display for F3261 series | \$27.00 |
| NCF3261T CLIP | Nylon carrying case with a clip and cutout for the DTMF keypad for F3261 series | \$27.00 |

Accessories

| Model | Description | MSRP |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------|
| Chargers | | |
| AD106 | Adapter cup for the BC119N/BC121N for the radios with the BP232N/H battery | \$28.00 |
| AD122 | Adapter cup that fits into the BC197 22/23 for the BP232N/H batteries | \$23.00 |
| BC123SA | AC adapter for rapid chargers; 100-240V with US style plug | \$25.00 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |
| BC160 | Rapid charger for radios with the BP230/231/232 battery; 100-240V with a US style plug | \$70.00 |
| BC160E | Rapid charger for radios with the BP230/231/232 battery; 100-240V with a Euro style plug | \$70.00 |
| BC197 22 | Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with US style plug | \$510.00 |
| BC197 23 | Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with Euro style plug | \$510.00 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| IA-TC100A | Travel charger piece the BC-160/BC-171 fits into. Req CP1/CP17L or OPC515L | \$0.00 |
| MB130 | Vehicle charger bracket holds rapid charger and requires cigarette lighter cable | \$83.00 |
| SS BC61 | Mobile rapid charger with cigarette adapter for the F3161 & F3261 series | \$215.00 |
| Headsets | | |
| HS94 | Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392 | \$25.00 |
| HS95 | Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392 | \$215.00 |
| HS97 | Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392 | \$42.00 |
| VS1MC | VOX/PTT case with 14-pin connector. Must use with HS94/HS95/HS97. | \$84.00 |
| VS4MC | Cable with heavy duty PTT swith with 14-pin connector. Use with HS94/HS95/HS97. | \$150.00 |
| Manuals | | |
| 94416576 | F3261/4261 service manual - CD | \$0.00 |
| 97716573 | F3261/4261 service manual - hardcopy | \$0.00 |
| 98816575 | F3261/4261 owner's manual | \$0.00 |
| Microphones | | |
| HM184H | 14-pin loud waterproof speaker mic (no accessory jack) | \$118.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| HM184IS | 14-pin intrinsically safe approved waterproof speaker mic (no accessory jack) | \$150.00 |
| HM-HD7I6WP | Large waterproof, high gain speaker microphone with 3.5mm accessory jack (14-pin connector) | \$120.00 |
| IMPACT HD3-I6 | Lightweight heavy duty use speaker mic with 3.5mm accessory jack (14-pin connector) | \$98.00 |
| SP-AT1 | Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape) | \$31.50 |
| Miscellaneous | | |
| AD118 | 14-pin ACC adapter to use with Hirose plug accessories | \$80.00 |
| Software & Cables | | |
| CSF3161/F5061 | Software to program the F3161/4161 & F5061/6061 radios | \$72.00 |
| OPC1862 | USB programming cloning cable for radios with 14-pin connector | \$189.00 |
| OPC1870 | Radio to radio cloning cable between two 14-pin connector portable radios | \$125.00 |
| OPC1871 | Radio to radio cloning cable between 14-pin connector portable & mobile radio; used in conjunction with the OPC1534 for encryption key loading on the F7010 portable series | \$110.00 |
| PROGLM6789 | Icom to program your radio or IAS product | \$70.00 |
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$0.00 |

F3360D – F4360D Series

Waterproof Analog, IDAS™ 12.5 kHz & 6.25 kHz Digital & Type-C Trunking

SPECS

| | |
|--------------------|------------------------------------|
| Frequencies: | 136-174, 400-470MHz |
| Output Power: | 5W |
| Channels: | 512 / 128 zones |
| Channel Spacing: | 12.5 & 6.25kHz |
| Mil Spec: | 810 C, D, E & F |
| Scan: | Normal & priority |
| Weight: | 14.1oz (with BP-232WP) |
| Waterproof Rating: | IP67 submersible & dust protection |



FEATURES

General Features

- Analog & digital conventional / IDAS mixed mode
- Built-in GPS
- Lone worker function
- 2 step reduced power setting
- Busy, repeater lockout function
- Escalating alarm
- Surveillance function temporarily turns off the LED backlight and beep sound
- Detects both analog & IDAS conventional signals and automatically selects the transmission mode to reply to received call

Digital Features

- IDAS™ conventional
- IDAS Type C trunking
- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- Transparent data
- 64 Radio Access Numbers (RAN)
- 1 site and multi-site individual & group call
- Strongest site search
- Forced site search

COMES WITH

Antenna (FA-SC55V or FA-SC57U)
Battery (BP-232WP)
Belt clip (MB-94R)
Owner's manual
Warranty: 3 years

SIGNALING

MDC1200
CTCSS/DCS encode & decode
DTMF decode

ENCRYPTION

Inversion scrambler built-in. Digital voice scrambler provides 15-bit key (about 32K codes)



Configurations

| Model | Description | MSRP |
|------------|---------------------------------------------------------|----------|
| F3360DS 11 | 136-174MHz waterproof IDAS radio with GPS, 512CH, 4-key | \$850.00 |
| F4360DS 12 | 400-470MHz waterproof IDAS radio with GPS, 512CH, 4-key | \$850.00 |

Accessories

| Model | Description | MSRP |
|--------------------|-----------------------------------------------------------|----------|
| EXTWARR611 | 1 year extended warranty | \$40.00 |
| EXTWARR612 | 2 year extended warranty | \$70.00 |
| EXTWARR613 | 3 year extended warranty | \$110.00 |
| Antennas | | |
| FASC25U | 400-430MHz antenna for LM portables | \$13.00 |
| FASC25V | 136-150MHz antenna for LM portables | \$13.00 |
| FASC26US | 400-450MHz stubby antenna for LM portables | \$14.50 |
| FASC26VS | 136-144MHz stubby antenna for LM portables | \$14.50 |
| FASC27VS | 142-150MHz stubby antenna for LM portables | \$14.50 |
| FASC28V | 142-162MHz antenna for LM portables | \$13.00 |
| FASC29V | 160-174MHz antenna for LM portables | \$13.00 |
| FASC55V | 146-174MHz standard antenna for LM portables | \$13.00 |
| FASC56VS | 150-160MHz stubby antenna for LM portables | \$14.50 |
| FASC57U | 430-470MHz standard antenna for LM radios (red ring) | \$13.00 |
| FASC57VS | 160-174MHz stubby antenna for LM portables | \$14.50 |
| FASC61UC | 380-520MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC61VC | 136-174MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC62V | 150-160MHz high gain antenna for LM portables (10") | \$55.00 |
| FASC63V | 155-165MHz high gain antenna for LM portables (9.5") | \$55.00 |
| FASC72U | 470-512MHz antenna for LM portables | \$13.00 |
| FASC73US | 450-470MHz stubby antenna for LM portable radios | \$14.50 |
| LAIRD EXH 160 MXI | 155-160MHz antenna | \$26.00 |
| LARSEN SPHL10160IC | 151-163MHz helical ¼ wave antenna center tuned to 157MHz | \$26.00 |

Accessories

| Model | Description | MSRP |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------|----------|
| Batteries | | |
| BP232WP | Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value) IP67 waterproof battery | \$75.00 |
| BP240 | Battery case that holds 6 AAA alkaline batteries (1W output power) | \$35.00 |
| Belt Clips | | |
| MB93 | Swivel belt clip | \$11.00 |
| MB94 | Alligator belt clip | \$10.50 |
| MB94R | Alligator belt clip with long clip that angles the antenna/top of radio off the body | \$18.00 |
| MB96N | Swivel belt hanger to use with standard belt clip | \$37.00 |
| Cables | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| OPC656 | DC power cable for gang charger | \$12.00 |
| Carrying Cases | | |
| LCF3261S SWIVEL | Leather carrying case with a swivel clip and cutout for the display for F3261 | \$50.00 |
| LCF3261T SWIVEL | Leather carrying case with a swivel clip and cutout for the DTMF keypad for F3261 series | \$50.00 |
| NCF3261S CLIP | Nylon carrying case with a clip and cutout for the display for F3261 series | \$27.00 |
| NCF3261T CLIP | Nylon carrying case with a clip and cutout for the DTMF keypad for F3261 series | \$27.00 |
| Chargers | | |
| AD106 | Adapter cup for the BC119N/BC121N for the radios with the BP232N/H battery | \$28.00 |
| AD122 | Adapter cup that fits into the BC197 22/23 for the BP232N/H batteries | \$23.00 |
| BC123SA | AC adapter for rapid chargers; 100-240V with US style plug | \$25.00 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |
| BC160 | Rapid charger for radios with the BP230/231/232 battery; 100-240V with a US style plug | \$70.00 |
| BC160E | Rapid charger for radios with the BP230/231/232 battery; 100-240V with a Euro style plug | \$70.00 |
| BC197 22 | Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with US style plug | \$510.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| BC197 23 | Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with Euro style plug | \$510.00 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| IA-TC100A | Travel charger piece the BC-160/BC-171 fits into. Req CP1/CP17L or OPC515L | \$0.00 |
| MB130 | Vehicle charger bracket holds rapid charger and requires cigarette lighter cable | \$83.00 |
| SS BC61 | Mobile rapid charger with cigarette adapter for the F3161 & F3261 series | \$215.00 |
| Headsets | | |
| HS94 | Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392 | \$25.00 |
| HS95 | Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392 | \$215.00 |
| HS97 | Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392 | \$42.00 |
| VS1MC | VOX/PTT case with 14-pin connector. Must use with HS94/HS95/HS97. | \$84.00 |
| VS4MC | Cable with heavy duty PTT swith with 14-pin connector. Use with HS94/HS95/HS97. | \$150.00 |
| Microphones | | |
| HM184H | 14-pin loud waterproof speaker mic (no accessory jack) | \$118.00 |
| HM-HD7I6WP | Large waterproof, high gain speaker microphone with 3.5mm accessory jack (14-pin connector) | \$120.00 |
| IMPACT HD3-I6 | Lightweight heavy duty use speaker mic with 3.5mm accessory jack (14-pin connector) | \$98.00 |
| Miscellaneous | | |
| AD118 | 14-pin ACC adapter to use with Hirose plug accessories | \$80.00 |
| Software & Cables | | |
| CSF3360D/F5360D | Programming software for the F3360D & F5360D series | \$90.00 |
| OPC1862 | USB programming cloning cable for radios with 14-pin connector | \$189.00 |
| OPC1870 | Radio to radio cloning cable between two 14-pin connector portable radios | \$125.00 |
| OPC1871 | Radio to radio cloning cable between 14-pin connector portable & mobile radio; used in conjunction with the OPC1534 for encryption key loading on the F7010 portable series | \$110.00 |
| OPC2338 | 14-pin programming cable plus transparent data transfer | \$235.00 |
| OPC2344 | Modular connector programming cable plus Type-C NXDN transparent data transfer for F5360D/4360D | \$135.00 |
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$0.00 |

F52D/F62D Series

Analog & IDAS Digital Compact Waterproof Portables

SPECS

| | |
|--------------------|---------------------------------------------|
| Frequencies: | 136-174, 380-470, 450-512MHz |
| Output Power: | 5W |
| Channels: | 512 w/128 zones |
| Display: | 14 character full dot-matrix w/status icons |
| Mil Spec: | C, D, E, F & G |
| Scan: | Normal, priority & dual priority |
| Waterproof Rating: | IP67 |
| Weight: | 8.1oz |



GENERAL FEATURES

- Voice recording/playback (up to 8 minutes)
- Programmable vibration alert
- Bluetooth™ built-in
- Voice announcement (channel number and zone)
- Backlit LCD and buttons
- 20-position rotary selector and ON/OFF volume knob
- Emergency key
- Man down function
- Lone worker function

IDAS FEATURES

- IDAS™ conventional
- IDAS™ single-site and multi-site TYPE-D trunking option
- AMBE+2™ vocoder
- Analog/digital mixed operation
- Over-the-Air Programming with manager software
- Over-the-Air Alias (OAA) sends own name with a call
- Over-the-Air Update (OTAU) changes the repeater channel data and site code over the air (Type-D trunking)
- Individual, group call
- Status call and polling
- Short data message
- Transparent data mode

COMES WITH

- Battery (BP-290)
- Belt Clip (MMB-3)
- Owner's manual
- Warranty: 3-Year

Analog Signaling

- 2-tone, CTCSS, DTCS tone
- MDC functions
- DTMF autodial

ENCRYPTION

- Digital voice scrambler (low level encryption)
- Analog voice scrambler (inversion)

Configurations

| Model | Description | MSRP |
|---------|-----------------------------------------------------------------------------------------------------------|----------|
| F52D | 136-174MHz compact, IDAS, waterproof portable with 512 channels. Purchase antenna and charger separately. | \$680.00 |
| F62D 11 | 400-470MHz compact IDAS waterproof portable with 512 channels. Purchase antenna and charger separately. | \$680.00 |
| F62D 21 | 450-512MHz compact IDAS waterproof portable with 512 channels. Purchase antenna and charger separately. | \$680.00 |

Accessories

| Model | Description | MSRP |
|------------|-----------------------------------------------------------|----------|
| EXTWARR611 | 1 year extended warranty | \$40.00 |
| EXTWARR612 | 2 year extended warranty | \$70.00 |
| EXTWARR613 | 3 year extended warranty | \$110.00 |
| QCRRS01 | 3 year comprehensive radio repair service for IDAS radios | \$0.00 |

Antennas

| | | |
|----------|-----------------------------------------------------------|---------|
| FASC25U | 400-430MHz antenna for LM portables | \$13.00 |
| FASC25V | 136-150MHz antenna for LM portables | \$13.00 |
| FASC26US | 400-450MHz stubby antenna for LM portables | \$14.50 |
| FASC26VS | 136-144MHz stubby antenna for LM portables | \$14.50 |
| FASC27VS | 142-150MHz stubby antenna for LM portables | \$14.50 |
| FASC28V | 142-162MHz antenna for LM portables | \$13.00 |
| FASC29V | 160-174MHz antenna for LM portables | \$13.00 |
| FASC56VS | 150-160MHz stubby antenna for LM portables | \$14.50 |
| FASC57U | 430-470MHz standard antenna for LM radios (red ring) | \$13.00 |
| FASC57VS | 160-174MHz stubby antenna for LM portables | \$14.50 |
| FASC61UC | 380-520MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC61VC | 136-174MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC62V | 150-160MHz high gain antenna for LM portables (10") | \$55.00 |
| FASC63V | 155-165MHz high gain antenna for LM portables (9.5") | \$55.00 |
| FASC72U | 470-512MHz antenna for LM portables | \$13.00 |
| FASC73US | 450-470MHz stubby antenna for LM portable radios | \$14.50 |

Accessories

| Model | Description | MSRP |
|-----------------------|--------------------------------------------------------------|----------|
| Batteries | | |
| BP290 | 2010mAh li-ion battery | \$105.00 |
| BP291 | Battery case 5 x AA | \$50.00 |
| BP294 | 3150mAh li-ion battery for the F52D/F62D/M85 | \$165.00 |
| Belt Clips | | |
| MB136 | Swivel belt clip for F1000/F3400/F7010/F52D/M85 series | \$15.00 |
| MB96N | Swivel belt hanger to use with standard belt clip | \$37.00 |
| MBB3 | Standard belt clip | \$16.00 |
| Cables | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| OPC656 | DC power cable for gang charger | \$12.00 |
| Carrying Cases | | |
| LCF1052S | Leather case with swivel belt loop and D-ring for the F52D | \$50.00 |
| NCF1052C | Nylon case for the F52D with a clip | \$27.00 |
| Chargers | | |
| BC123SA | AC adapter for rapid chargers; 100-240V with US style plug | \$25.00 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |
| BC214-1 | Six gang charger (includes AC adapter with US plug) | \$510.00 |
| BC214-1E | Six gang charger (includes AC adapter with Euro plug) | \$510.00 |
| BC219N | Rapid charger for F52D/F62D; 100-240V with a US style plug | \$70.00 |
| BC225 | Smart rapid charger; 100-240V with a US style plug | \$135.00 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| Headsets | | |
| HS94 | Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392 | \$25.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------|
| HS95 | Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392 | \$215.00 |
| HS97 | Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392 | \$42.00 |
| VS3 | Compact clippable PTT Bluetooth with earphone via 3.5mm jack for all-day operation | \$149.00 |
| VS5MC | VOX/PTT switch cable to use with headset (HS94/95/97) | \$150.00 |
| Microphones | | |
| HM184H | 14-pin loud waterproof speaker mic (no accessory jack) | \$118.00 |
| HM222 | IP68 waterproof speaker microphone w/3.5mm accessory jack (14-pin connector) | \$145.00 |
| HM233GP | GPS microphone IP67 | \$285.00 |
| HM-HD7I6WP | Large waterproof, high gain speaker microphone with 3.5mm accessory jack (14-pin connector) | \$120.00 |
| IAHM600 | Heavy duty Bluetooth speaker microphone with loud audio, water/dust resistant & 40+ hours of talk time (charger included) | \$215.00 |
| SP27 | Acoustic tube earphone with a clip (3.5mm) | \$35.00 |
| SP29 | Earhook type earphone with 3.5mm plug | \$25.00 |
| SP40 | Earphone with 3.5mm plug | \$30.00 |
| SP-AT1 | Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape) | \$31.50 |
| Miscellaneous | | |
| AD118 | 14-pin ACC adapter to use with Hirose plug accessories | \$80.00 |
| AD135 | 3.5mm earphone jack adapter that plugs into a 14-pin connector | \$42.00 |
| ISL-AK25K | Add 25kHz into the radio | \$13.00 |
| Software & Cables | | |
| CSF52D | F52D/F62D programming software | \$100.00 |
| CSOTPM1 | Over-the-air programming (OTAP) manager software | \$520.00 |
| OPC1862 | USB programming cloning cable for radios with 14-pin connector | \$189.00 |
| OPC1870 | Radio to radio cloning cable between two 14-pin connector portable radios | \$125.00 |
| OPC2338 | 14-pin programming cable plus transparent data transfer | \$235.00 |
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$0.00 |
| RSBC225 | Battery management software for the BP-283/284/BP290. Can connect up to 30 BC-225 chargers to it. | \$250.00 |

Accessories

| Model | Description | MSRP |
|------------------|---------------------------------------------------------------------|----------|
| Trunking | | |
| ISL-UGMTR | Type D trunking license for single and multi-site trunking | \$125.00 |
| Wire Kits | | |
| EH15B | Earphone with 2.5mm plug to use with HM-163MC | \$30.00 |
| HM163MC | Lapel mic with 2.5mm earphone jack | \$200.00 |
| SP26 | Tube earphone with 2.5mm plug to use with HM-163MC/HM-153LS | \$25.00 |
| SP28 | Earhook type earphone with 2.5mm plug to use with HM-163MC/HM-153LS | \$25.00 |
| SP32 | Tube adapter for use with the EH-15B | \$30.00 |

F52DUL/F62DUL Series

Analog & IDAS Digital Intrinsically Safe Portables

SPECS

| | |
|--------------------|---------------------------------------------|
| Frequencies: | 136-174, 380-470, 450-512MHz |
| Output Power: | 5W |
| Channels: | 512 w/128 zones |
| Display: | 14 character full dot-matrix w/status icons |
| Mil Spec: | C, D, E, F & G |
| Scan: | Normal, priority & dual priority |
| Waterproof Rating: | IP67 |
| Weight: | 8.1oz |



GENERAL FEATURES

Voice recording/playback (up to 8 minutes)
Programmable vibration alert
Bluetooth™ built-in
Voice announcement (channel number and zone)
Backlit LCD and buttons
20-position rotary selector and ON/OFF volume knob
Emergency key
Man down function
Lone worker function
Intrinsically Safe: meets ANSI/TIA-4950-A, ANSI/UL 121201 requirements for:
 Intrinsically safe: Class I, Division 1, Groups C, D
 Class II, Division 1 Groups E, F, G
 Class III, T3C
Non-incendive: Class I, Division 2, Groups A, B, C, D

IDAS FEATURES

IDAS™ conventional
IDAS™ single-site and multi-site TYPE-D trunking option
AMBE+2™ vocoder
Analog/digital mixed operation
Over-the-Air Programming with manager software
Over-the-Air Alias (OAA) sends own name with a call
Over-the-Air Update (OTAU) changes the repeater channel data and site code over the air (Type-D trunking)
Individual, group call
Status call and polling
Short data message
Transparent data mode

COMES WITH

Battery (BP-292IS)
Belt Clip (MMB-3)
Owner's manual
Warranty: 3-Year

Analog Signaling

2-tone, CTCSS, DTCS tone
MDC functions
DTMF autodial

ENCRYPTION

Digital voice scrambler (low level encryption)
Analog voice scrambler (inversion)

Configurations

| Model | Description | MSRP |
|-----------|-----------------------------------------------------------------------------------------------------------------------------|----------|
| F52DUL | 136-174MHz intrinsically safe, IDAS waterproof portable with 512 channels. Purchase antenna and charger separately. | \$900.00 |
| F62DUL 11 | 400-470MHz intrinsically safe, compact IDAS waterproof portable with 512 channels. Purchase antenna and charger separately. | \$900.00 |
| F62DUL 21 | 450-512MHz intrinsically safe, compact IDAS waterproof portable with 512 channels. Purchase antenna and charger separately. | \$900.00 |

Accessories

| Model | Description | MSRP |
|-----------------|-----------------------------------------------------------|----------|
| EXTWARR611 | 1 year extended warranty | \$40.00 |
| EXTWARR612 | 2 year extended warranty | \$70.00 |
| EXTWARR613 | 3 year extended warranty | \$110.00 |
| Antennas | | |
| FASC25U | 400-430MHz antenna for LM portables | \$13.00 |
| FASC25V | 136-150MHz antenna for LM portables | \$13.00 |
| FASC26US | 400-450MHz stubby antenna for LM portables | \$14.50 |
| FASC26VS | 136-144MHz stubby antenna for LM portables | \$14.50 |
| FASC27VS | 142-150MHz stubby antenna for LM portables | \$14.50 |
| FASC28V | 142-162MHz antenna for LM portables | \$13.00 |
| FASC29V | 160-174MHz antenna for LM portables | \$13.00 |
| FASC56VS | 150-160MHz stubby antenna for LM portables | \$14.50 |
| FASC57U | 430-470MHz standard antenna for LM radios (red ring) | \$13.00 |
| FASC57VS | 160-174MHz stubby antenna for LM portables | \$14.50 |
| FASC61UC | 380-520MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC61VC | 136-174MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC62V | 150-160MHz high gain antenna for LM portables (10") | \$55.00 |
| FASC63V | 155-165MHz high gain antenna for LM portables (9.5") | \$55.00 |
| FASC72U | 470-512MHz antenna for LM portables | \$13.00 |
| FASC73US | 450-470MHz stubby antenna for LM portable radios | \$14.50 |

Accessories

| Model | Description | MSRP |
|------------------------------|-------------------------------------------------------------------------------|----------|
| Batteries | | |
| BP292IS | 2010mAh li-ion intrinsically safe battery | \$225.00 |
| Belt Clips | | |
| MB136 | Swivel belt clip for F1000/F3400/F7010/F52D/M85 series | \$15.00 |
| MB96N | Swivel belt hanger to use with standard belt clip | \$37.00 |
| MBB3 | Standard belt clip | \$16.00 |
| Cables | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| Carrying Cases | | |
| LCF1052S | Leather case with swivel belt loop and D-ring for the F52D | \$50.00 |
| NCF1052C | Nylon case for the F52D with a clip | \$27.00 |
| Chargers | | |
| BC226 | Connectable rapid charger (connect up to 6) and requires the BC228 AC adapter | \$75.00 |
| BC227 | Rapid charger that goes into trickle mode at a 80% charge (US Plug) | \$67.00 |
| BC228 | AC adapter for BC226 | \$70.00 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| Microphones | | |
| HM184IS | 14-pin intrinsically safe approved waterproof speaker mic (no accessory jack) | \$150.00 |
| Miscellaneous | | |
| ISL-AK25K | Add 25kHz into the radio | \$13.00 |
| Software & Cables | | |
| CSF52D | F52D/F62D programming software | \$100.00 |
| CSOTPM1 | Over-the-air programming (OTAP) manager software | \$520.00 |
| OPC1862 | USB programming cloning cable for radios with 14-pin connector | \$189.00 |
| OPC1870 | Radio to radio cloning cable between two 14-pin connector portable radios | \$125.00 |

Accessories

| Model | Description | MSRP |
|------------------------|--------------------------------------------------------------------------------------|----------|
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$0.00 |
| <i>Trunking</i> | | |
| ISL-UGMTR | Type D trunking license for single and multi-site trunking | \$125.00 |

F3400D – F4400D Series

VHF UHF Digital Handheld Transceiver

SPECS

| | |
|--------------------|------------------------------------------------------------------------------|
| Frequencies: | 136-174, 380-470, 450-512MHz |
| Output Power: | 5W |
| Channels: | 32 channels w/2 zones (F3400D), 1024 channels w/128 zones (F3400DS/DT) |
| Channel Spacing: | 12.5 & 6.25kHz |
| Mil Spec: | C, D, E, F, G |
| Weight: | 6.4oz (main unit without battery pack and antenna) |
| Waterproof Rating: | IP68 |
| Versions: | With full keypad With simple keypad Without LCD and front keypad |



FEATURES

General Features

- Basic LTR® / Conventional / IDAS
- GPS built-in
- Bluetooth™ built-in
- Intuitive user interface
- High-resolution color LCD
- Digital voice recorder – record up to 500 hours with 32GB microSD card
- Man down, motion detection, stationary detection, lone worker and power OFF emergency
- AquaQuake™
- Audio equalizer*

Digital Features

- IDAS™ conventional
- IDAS single-site and multi-site Type D trunking (optional upgrade)
- IDAS single-site and multi-site Type C trunking (optional upgrade)*
- Voting mode scanning
- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- Individual & group selective call
- Strongest site search
- Over-the-Air Programming (requires software & license)*

COMES WITH

Battery Pack (BP-283)
Belt clip (MB-133)
Antenna & charger purchased separately
Owner's manual
Warranty: 3 years

ANALOG SIGNALING

2-tone, 5-tone, CTCSS and DTCS built-in
DTMF autodial and DTMF decode
MDC1200 compatible

ENCRYPTION

AES/DES UT-134
Over-the-Air Rekeying (requires license)*

*Future Availability



MULTITRUNK



IDAS™
ICOM DIGITAL ADVANCED SYSTEM

Configurations

| Model | Description | MSRP |
|------------|------------------------------------------------------------------------------------------------------------------------------|----------|
| F3400D 21 | 136-174MHz IDAS portable with 32 channels and no display. Purchase antenna and charger separately. | \$795.00 |
| F3400DS 11 | 136-174MHz IDAS portable with 1024 channels and a color display. Purchase antenna and charger separately. | \$820.00 |
| F3400DT 01 | 136-174MHz IDAS portable with 1024 channels, a color display, and full DTMF keypad. Purchase antenna and charger separately. | \$880.00 |
| F4400D 21 | 380-470MHz IDAS portable with 32 channels and no display. Purchase antenna and charger separately. | \$795.00 |
| F4400DS 11 | 380-470MHz IDAS portable with 1024 channels, and a color display. Purchase antenna and charger separately. | \$820.00 |
| F4400DT 01 | 380-470MHz IDAS portable with 1024 channels, a color display, and full DTMF keypad. Purchase antenna and charger separately. | \$880.00 |
| F4400D 51 | 450-512MHz IDAS portable with 32 channels and no display. Purchase antenna and charger separately. | \$795.00 |
| F4400DS 41 | 450-512MHz IDAS portable with 1024 channels and a color display. Purchase antenna and charger separately. | \$820.00 |
| F4400DT 31 | 450-512MHz IDAS portable with 1024 channels, a color display, and full DTMF keypad. Purchase antenna and charger separately. | \$880.00 |

Accessories

| Model | Description | MSRP |
|------------|-----------------------------------------------------------|----------|
| EXTWARR811 | 1 year extended warranty | \$65.00 |
| EXTWARR812 | 2 year extended warranty | \$93.00 |
| EXTWARR813 | 3 year extended warranty | \$130.00 |
| QCRRS01 | 3 year comprehensive radio repair service for IDAS radios | \$0.00 |

Antennas

| | | |
|---------|--------------------------------------------|---------|
| FAS67VC | 136-174MHz cut antenna - F3400/F7010/F9011 | \$30.00 |
| FAS76UC | 380-520MHz cut antenna for F4400/F9021 | \$30.00 |
| FAS81U | 380-430MHz antenna for F4400 | \$17.00 |
| FAS81US | 400-450MHz stubby antenna for F4400 | \$17.00 |
| FAS81V | 136-150MHz antenna for F3400/F7010/F9011 | \$20.00 |
| FAS81VS | 136-150MHz stubby antenna for F3400 | \$19.00 |
| FAS82U | 430-480MHz antenna for F4400 | \$17.00 |
| FAS82US | 450-490MHz stubby antenna for F4400 | \$17.00 |

Accessories

| Model | Description | MSRP |
|-----------------------|------------------------------------------------------------------------------------------------------|----------|
| FAS82V | 148-162MHz antenna | \$20.00 |
| FAS82VS | 148-162MHz stubby antenna | \$19.00 |
| FAS83U | 470-520MHz antenna for F4400 | \$17.00 |
| FAS83V | 160-174MHz antenna for F3400 | \$20.00 |
| FAS83VS | 160-174MHz stubby antenna for F3400 | \$19.00 |
| Batteries | | |
| BP283 | Li-ion 7.4V 2010mAh (typical capacity), 1910mAh (minimum value) | \$115.00 |
| BP284 | Li-ion 7.4V 3210mAh (typical capacity), 3070mAh (minimum value) | \$175.00 |
| Belt Clips | | |
| MB133 | Alligator type belt clip | \$17.00 |
| MB136 | Swivel belt clip for F1000/F3400/F7010/F52D/M85 series | \$15.00 |
| MB96N | Swivel belt hanger to use with standard belt clip | \$37.00 |
| Cables | | |
| IAOPC1003 | USB to micro-USB 3ft cable | \$12.00 |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| OPC656 | DC power cable for gang charger | \$12.00 |
| Carrying Cases | | |
| LCF1034SW | Leather case with swivel belt loop and D-ring; no display cutout for the F3400D | \$50.00 |
| LCF1035SW | Leather case with swivel belt loop and D-ring; display cutout for the F3400DS & F7010S | \$50.00 |
| LCF1036SW | Leather case with swivel belt loop and D-ring; display & full keypad cutout for the F3400DT & F7010T | \$50.00 |
| NCF1034C | Nylon case with metal clip without display cutout for the F3400D | \$27.00 |
| NCF1035C | Nylon case with metal clip with display cutout; F3400DS/F7010S | \$27.00 |
| NCF1036C | Nylon case with metal clip with full keypad cutout; F3400DT/F7010T | \$27.00 |
| Chargers | | |
| BC123SA | AC adapter for rapid chargers; 100-240V with US style plug | \$25.00 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |

Accessories

| Model | Description | MSRP |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------|
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |
| BC214-1 | Six gang charger (includes AC adapter with US plug) | \$510.00 |
| BC214-1E | Six gang charger (includes AC adapter with Euro plug) | \$510.00 |
| BC219E | Rapid charger for radios with the BP283/BP28/BP290/BP294 batteries; 100-240V with a Euro style plug | \$70.00 |
| BC219N | Rapid charger for radios with the BP283/BP284; 100-240V with a US style plug | \$70.00 |
| BC225 | Smart rapid charger; 100-240V with a US style plug | \$135.00 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| IABC1019 | Heavy duty vehicular charger | \$400.00 |
| SS BC62 | Mobile rapid charger with cigarette adapter for the F3400 & F7010 series | \$235.00 |
| Encryption & Internal Modules | | |
| CSKLD2 | Encryption key loader software for F3400/F5400 series | \$600.00 |
| INSTALL-MF | Install a component into an LM mobile or portable | \$0.00 |
| ISL-AKAES | AES activation code for F3400/F5400 series | \$360.00 |
| UT134 | AES/DES encryption board; requires ISL code to activate AES | \$185.00 |
| Headsets | | |
| HS94 | Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392 | \$25.00 |
| HS95 | Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392 | \$215.00 |
| HS97 | Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392 | \$42.00 |
| VS1MC | VOX/PTT case with 14-pin connector. Must use with HS94/HS95/HS97. | \$84.00 |
| VS4MC | Cable with heavy duty PTT swith with 14-pin connector. Use with HS94/HS95/HS97. | \$150.00 |
| Microphones | | |
| HM184H | 14-pin loud waterproof speaker mic (no accessory jack) | \$118.00 |
| HM222 | IP68 waterproof speaker microphone w/3.5mm accessory jack (14-pin connector) | \$145.00 |
| HM-HD7I6WP | Large waterproof, high gain speaker microphone with 3.5mm accessory jack (14-pin connector) | \$120.00 |
| IAHM600 | Heavy duty Bluetooth speaker microphone with loud audio, water/dust resistant & 40+ hours of talk time (charger included) | \$215.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|--------------------------------------------------------------------------------------|----------|
| SP27 | Acoustic tube earphone with a clip (3.5mm) | \$35.00 |
| SP29 | Earhook type earphone with 3.5mm plug | \$25.00 |
| SP40 | Earphone with 3.5mm plug | \$30.00 |
| SP-AT1 | Single pin listen only w/QD acoustic tube (9" , 3.5mm L-shape) | \$31.50 |
| Miscellaneous | | |
| AD118 | 14-pin ACC adapter to use with Hirose plug accessories | \$80.00 |
| ISL-AK25K | Add 25kHz into the radio | \$13.00 |
| ISL-CHEX | Memory channel expansion (4000 CH) | \$420.00 |
| MSD CARD | 32GB micro SD card | \$30.00 |
| Software & Cables | | |
| CSF3400D | Programming software for the F3400D/F5400D series | \$80.00 |
| CSOTPM1 | Over-the-air programming (OTAP) manager software | \$520.00 |
| OPC1862 | USB programming cloning cable for radios with 14-pin connector | \$189.00 |
| OPC1870 | Radio to radio cloning cable between two 14-pin connector portable radios | \$125.00 |
| OPC2338 | 14-pin programming cable plus transparent data transfer | \$235.00 |
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$0.00 |
| Trunking | | |
| ISL-UGMTR | Type D trunking license for single and multi-site trunking | \$125.00 |

F70/F80 – F70D/F80D Series

High End Analog, P25 Conventional, I.S. and FIPS Portables

SPECS

| | |
|---------------------|--------------------------------------------------------------------------------------|
| Frequencies: | 136-174, 380-450, 400-470, 450-512MHz |
| Output Power: | 4W (UHF); 5W (VHF) |
| Channels: | 256 with 32 zones |
| Channel Spacing: | 12.5kHz |
| LCD Display: | Full dot matrix, switchable 1 line 12 character or 2 line 24 character |
| Programmable Keys: | 8 |
| Mil Spec: | 810 C, D, E |
| Scan: | Normal, priority & dual priority |
| Waterproof Rating: | IPX7 submersible |
| Weight: | 14.1oz (with BP-253) 15.9oz (with BP-254) |
| Intrinsically Safe: | Yes on specific versions |
| Versions: | Analog only (upgradeable to P25) P25 ready (D versions) P25 ready with FIPS |



FEATURES

Tactical group function
Mixed mode operation
Radio stun/kill function (analog only) and Power on password
Built-in audio compander (analog only)
Unit Down: UT-124
2 Step power saver
Busy, repeater lockout functions
Selective call / individual call using
Unit ID & talkgroup ID

SIGNALING

CTCSS / DTCSS encode & decode
2-Tone, 5-Tone

- Up to 10 2-tone codes can be decoded on a channel
- Up to 8 5-tone codes can be decoded on a channel
- Programmable items for codes: Beep sound, Answer back, Scan, Bell icon, Radio stun/kill

DTMF

MDC1200

- PTT I/Caller ID, selective call, radio check, call alert
- Emergency, emergency mic monitoring
- Stun/revive, call log, status/message
- 500 aliases

COMES WITH

Antenna (FA-SC55V or FA-SC57U)
Battery
P25/analog (BP-253)
FIPS versions (BP-254)
Belt Clip (MB-94)
Owner's manual
Warranty: 2-Year (F70/F80)
3-Year (F70D/80D)

ENCRYPTION

Analog Only:

Simple Inversion: UT-109 32 Codes

Rolling Code: UT-110 1020 Codes

Digital Only:

AES & DES upgrade options

IPX7



OTTO
ACCESSORIES
AVAILABLE

MDC 1200
Compatible

Icom America Inc.

U.S. Land Mobile Retail: Product Catalog

Configurations

| Model | Description | MSRP |
|----------|--------------------------------------------------------------|------------|
| F80DS 31 | 380-450MHz P25 radio with FIPS AES installed, no DTMF keypad | \$1,065.00 |

Accessories

| Model | Description | MSRP |
|------------|--------------------------|----------|
| EX2785J03 | AES activation upgrade | \$656.00 |
| EXTWARR611 | 1 year extended warranty | \$40.00 |
| EXTWARR612 | 2 year extended warranty | \$70.00 |
| EXTWARR613 | 3 year extended warranty | \$110.00 |
| EXTWARR811 | 1 year extended warranty | \$65.00 |
| EXTWARR812 | 2 year extended warranty | \$93.00 |
| EXTWARR813 | 3 year extended warranty | \$130.00 |

Antennas

| | | |
|----------|-----------------------------------------------------------|---------|
| AD98FSC | Antenna connector adapter for "J" to "BNC" conversion | \$22.00 |
| FASC25U | 400-430MHz antenna for LM portables | \$13.00 |
| FASC25V | 136-150MHz antenna for LM portables | \$13.00 |
| FASC55V | 146-174MHz standard antenna for LM portables | \$13.00 |
| FASC56VS | 150-160MHz stubby antenna for LM portables | \$14.50 |
| FASC57U | 430-470MHz standard antenna for LM radios (red ring) | \$13.00 |
| FASC57VS | 160-174MHz stubby antenna for LM portables | \$14.50 |
| FASC61UC | 380-520MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC61VC | 136-174MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC62V | 150-160MHz high gain antenna for LM portables (10") | \$55.00 |
| FASC63V | 155-165MHz high gain antenna for LM portables (9.5") | \$55.00 |
| FASC72U | 470-512MHz antenna for LM portables | \$13.00 |
| FASC73US | 450-470MHz stubby antenna for LM portable radios | \$14.50 |

Batteries

| | | |
|-------|-----------------------------------------------------------------|----------|
| BP237 | Battery case that holds 6 AA alkaline batteries | \$39.00 |
| BP253 | Li-ion 7.2V 1650mAh (typical capacity), 1570mAh (minimum value) | \$110.00 |

Accessories

| Model | Description | MSRP |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------|
| BP254 | Li-ion 7.2V 3040mAh (typical capacity), 2900mAh (minimum value) for P25 portables | \$155.00 |
| <i>Belt Clips</i> | | |
| AW STUD/SWIVEL KIT | Metal stud that slides on like a belt clip and it's attached to a strong metal swivel belt clip | \$21.00 |
| MB93 | Swivel belt clip | \$11.00 |
| MB94 | Alligator belt clip | \$10.50 |
| MB94R | Alligator belt clip with long clip that angles the antenna/top of radio off the body | \$18.00 |
| MB96N | Swivel belt hanger to use with standard belt clip | \$37.00 |
| <i>Cables</i> | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| OPC656 | DC power cable for gang charger | \$12.00 |
| <i>Carrying Cases</i> | | |
| AW F70 AREA 51 | Water repellant case with a swivel belt clip for the F70/80 | \$35.00 |
| LCF70 CLIP | Leather case with a metal clip and DTMF keypad cutout for the F70/80 series radios. | \$45.00 |
| LCF70S LOOP | Leather case with a belt loop for the F70/80 series radios. Case is not IS approved with any of our IS radios. | \$38.00 |
| <i>Chargers</i> | | |
| AD110 | Adapter cup to install in the BC119N or BC121N for the BP253 or BP254 batteries | \$28.00 |
| BC119N 02 | Rapid charger requiring radio specific adapter cup; 100-240V w/Euro style plug | \$76.00 |
| BC119NS 11 | Rapid charger with AD110 installed for F70/80/9011/9021 radios; 100-240V with US style plug | \$95.00 |
| BC121NS | 6-Unit Charger Kit BC121N + AD110 x 6. Requires BC157S AC adapter. | \$470.00 |
| BC145SA 31 | AC adapter for BC119N; 100-240V with US style plug | \$25.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| <i>Encryption & Internal Modules</i> | | |
| INSTALL-MF | Install a component into an LM mobile or portable | \$0.00 |
| KA KVL125 | KVL unit powered by 9-volt battery | \$3,185.00 |

Accessories

| Model | Description | MSRP |
|--------------------|-----------------------------------------------------------------------------------------------------|------------|
| OPC-IAKVL9 | Interface Cable with 9 Pin Connector between F70D/F80D & KA KVL125 | \$200.00 |
| UT109 02 | Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110. | \$105.00 |
| UT110 02 | Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. | \$173.00 |
| UT120 01 | P25 upgrade board for F70/80 handhelds | \$541.00 |
| UT124 01 | Man down unit | \$90.00 |
| Headsets | | |
| HS94 | Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392 | \$25.00 |
| HS95 | Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392 | \$215.00 |
| HS97 | Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392 | \$42.00 |
| OTTO V410514 | Lightweight single speaker w/in-line ptt, padded headband (9-pin connector) | \$155.00 |
| VS1SC | VOX/PTT case with 9-pin connector. Must use with HS94/HS95/HS97. | \$68.00 |
| Manuals | | |
| 94415196 | F70/F80 CD service manual | \$50.22 |
| 97714933 | F70S/T & F70DS/DT service manual hardcopy | \$68.00 |
| 98814911 | F70DS/DT, F70S/T, F80DS/DT, F80S/T owner's manual | \$12.84 |
| Microphones | | |
| HM138 | Waterproof 9-pin marine style speaker mic (IS approved for F50/F60/M88/F70/F80) | \$0.00 |
| HM169 | Waterproof speaker mic (9-pin) | \$105.00 |
| IMPACT HD3-I5 | Heavy duty use speaker mic with 3.5mm accessory jack (9-pin) | \$76.00 |
| OTTO V110282 | Speaker mic earpiece(2.5mm straight plug) | \$50.00 |
| OTTO V110433 | Speaker mic earpiece (3.5mm right angle plug) | \$0.00 |
| RedHawk | | |
| IAS BC-RHADPTR | 100-240V charger adapter for use with the IAS OPC-RHUSB | \$70.00 |
| IAS BC-RHCHG1 | 100-240V single unit charger for RedHawk mic | \$105.00 |
| IAS BC-RHCHG12 | 100-240V 12 unit charger for the RedHawk mics | \$1,000.00 |
| IAS BP-RHBATT1 | 3.8V 1200mAh battery for RedHawk mic | \$45.00 |
| IAS CP-RHLP | 12-24V cigarette lighter plug requiring 2 USB cables | \$60.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| IAS CS-RHSW | Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed. | \$120.00 |
| IAS OPC-RHI9 | RedHawk 9-pin cable connects GPS mic to radio (works in analog only) | \$99.00 |
| IAS OPC-RHUSB | USB cable to connect mic with PC or charger adapter. One comes with each microphone. | \$30.00 |
| IAS REDHAWK | Speaker microphone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required. | \$584.00 |
| Software & Cables | | |
| CSF70/F1700 | Cloning Software F70/F80/F1721/F1821/F2721/F282 | \$0.00 |
| OPC1533 | Radio to radio cloning cable between F1721/2721/D series mobiles & F70/80/D portable radios | \$0.00 |
| OPC1536 | Radio to radio cloning cable between F70/80/D portable radios | \$0.00 |
| OPC966U | USB programming cloning cable for radios with 9-pin connector | \$168.00 |
| PROGLM6789 | Icom to program your radio or IAS product | \$70.00 |
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$0.00 |
| Wire Kits | | |
| OTTO V110822 | 2-Wire palm mic kit (earphone cable and mic/ptt cable) with 9-pin connector | \$125.00 |

F9011 – F9021 Series

P25 Digital & Analog Portables

SPECS

| | |
|--------------------|-------------------------------------------------------------------------------|
| Frequencies: | 136-174, 380-470, 450-520MHz |
| Output Power: | 6W (VHF); 5W (UHF) |
| Channels: | 512 / 128 zones |
| Channel Spacing: | 15 / 30kHz (analog) 12.5kHz (digital) |
| Display: | Dot matrix with backlighting |
| Programmable Keys: | 12 buttons, 1 toggle, 1 3-position switch |
| Mil Spec: | 810 C, D, E |
| Scan: | Normal, priority & dual priority |
| Waterproof Rating: | IP57 submersible |
| Weight: | 1.17lb (with BP-254) |
| Versions: | No display, no keypad Display, no DTMF keypad Display, full DTMF keypad |



FEATURES

General Features:

- 100 individual ID and 250 talkgroup ID memories
- 4-way navigational cross keypad (S & T versions)
- Encryption toggle
- 3-position zone select switch
- Tactical group function
- Scan settings – dual priority, mode dependent, talk back and more
- Man down option
- 14 pin accessory connector with programmable key assign
- Built-in audio compander (analog only)

P25 Digital Features:

- P25 digital conventional
- P25 digital trunking option
- DVSI's AMBE+2™ vocoder
- Digital/analog mixed mode operation
- P25 OTAR option

Compliant Standards:

- TIA/EIA TSB 102. CAAB compliant
- NTIA VHF specification compliant
- FIPS 140-2 (level 1) certified AES encryption

COMES WITH

Antenna

- 136-174: FA-S65V
- 380-470: FA-S30U
- 450-520: FA-S75U

Battery (BP-254)

Belt Clip (MB-115)

Owner's manual

Warranty: 3 years

ENCRYPTION

DES: UT-128

AES/DES: UT-125

AES FIPS: UT-125 FIPS

SIGNALING

CTCSS / DCS encode & decode (analog only)

2 Tone endocer and decoder (analog only)

DTMF autodial (analog only)

MDC1200 (analog only)



Configurations

| Model | Description | MSRP |
|-----------|-------------------------------------------------------------------------------------|------------|
| F9011B 01 | 136-174MHz P25 conventional portable, 6W, 512 CH, basic model, no display or keypad | \$1,265.00 |
| F9011B 21 | 136-174MHz P25 Conventional portable, 6W, 512 CH, basic model, no display or keypad | \$1,330.00 |
| F9011S 25 | 136-174MHz P25 Conventional portable, 6W, 512 CH, display, simple keypad | \$1,530.00 |
| F9011T 30 | 136-174MHz P25 Conventional portable, 6W, 512 CH, display, full DTMF keypad | \$1,630.00 |
| F9021B 91 | 380-470MHz P25 Conventional portable, 5W, 512 CH, basic model, no display or keypad | \$1,330.00 |
| F9021S 95 | 380-470MHz P25 Conventional portable, 5W, 512 CH, display, simple keypad | \$1,530.00 |
| F9021T 98 | 380-470MHz P25 Conventional portable, 5W, 512 CH, display, full DTMF keypad | \$1,630.00 |
| F9021B 82 | 450-512MHz P25 Conventional portable, 5W, 512 CH, basic model, no display or keypad | \$1,330.00 |
| F9021S 85 | 450-512MHz P25 Conventional, 5W, 512 CH, display, simple keypad | \$1,530.00 |
| F9021T 30 | 450-512MHz P25 Trunking portable, 5W, 512 CH, display, full DTMF keypad | \$1,550.00 |
| F9021T 89 | 450-512MHz P25 Conventional portable, 5W, 512 CH, display, full DTMF keypad | \$1,630.00 |

Accessories

| Model | Description | MSRP |
|------------------|-----------------------------------------------------------------------------------|----------|
| ENGRAVE | Engrave radio | \$0.00 |
| EXTWARR811 | 1 year extended warranty | \$65.00 |
| EXTWARR812 | 2 year extended warranty | \$93.00 |
| EXTWARR813 | 3 year extended warranty | \$130.00 |
| QCRRS09 | 3 year comprehensive radio repair service for P25 radios | \$0.00 |
| Antennas | | |
| FAS58U | 400-470MHz antenna - standard on the F9021 | \$17.00 |
| FAS65V | 148-160 MHz flexible antenna - standard on F9011 | \$17.00 |
| FAS67VC | 136-174MHz cut antenna - F3400/F7010/F9011 | \$30.00 |
| FAS81V | 136-150MHz antenna for F3400/F7010/F9011 | \$20.00 |
| GAL 06026 | 136-174MHz short helical broadband antenna for F9011 | \$100.00 |
| Batteries | | |
| BP237 | Battery case that holds 6 AA alkaline batteries | \$39.00 |
| BP254 | Li-ion 7.2V 3040mAh (typical capacity), 2900mAh (minimum value) for P25 portables | \$155.00 |

Accessories

| Model | Description | MSRP |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------|------------|
| <i>Belt Clips</i> | | |
| AW STUD/SWIVEL KIT | Metal stud that slides on like a belt clip and it's attached to a strong metal swivel belt clip | \$21.00 |
| MB115 | Standard belt clip for F9011 series | \$10.00 |
| <i>Cables</i> | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| OPC656 | DC power cable for gang charger | \$12.00 |
| <i>Carrying Cases</i> | | |
| LCF9011S SWIVEL | Leather carrying case with a swivel clip for the F9011/9021 radios without a full keypad | \$50.00 |
| LCF9011T SWIVEL | Leather carrying case with a swivel clip for the F9011T/9021T radios with a full keypad cutout | \$50.00 |
| NCF9011T CLIP | Nylon carrying case with a clip for the F9011T/9021T radios with a full keypad | \$30.00 |
| <i>Chargers</i> | | |
| AD110 | Adapter cup to install in the BC119N or BC121N for the BP253 or BP254 batteries | \$28.00 |
| BC119N 02 | Rapid charger requiring radio specific adapter cup; 100-240V w/Euro style plug | \$76.00 |
| BC119NS 11 | Rapid charger with AD110 installed for F70/80/9011/9021 radios; 100-240V with US style plug | \$95.00 |
| BC121NS | 6-Unit Charger Kit BC121N + AD110 x 6. Requires BC157S AC adapter. | \$470.00 |
| BC145SA 31 | AC adapter for BC119N; 100-240V with US style plug | \$25.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| SS BC63 | Mobile rapid charger with cigarette adapter for the F9011 series | \$215.00 |
| <i>Encryption & Internal Modules</i> | | |
| INSTALL-MF | Install a component into an LM mobile or portable | \$0.00 |
| KA KVL125 | KVL unit powered by 9-volt battery | \$3,185.00 |
| OPC-IAKVL14 | Interface Cable with 14 Pin Connector between P25 portable & KA KVL125 | \$230.00 |
| UT125 01 | AES/DES encryption board with OTAR compliance for F9011/F9511 series | \$695.00 |
| UT125 FIPS | FIPS 140-2 AES encryption board with OTAR compliance for F9011/F9511 series | \$789.00 |
| UT128 | DES encryption for F9011/F9511 radios | \$420.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Headsets | | |
| VS1MC | VOX/PTT case with 14-pin connector. Must use with HS94/HS95/HS97. | \$84.00 |
| VS4MC | Cable with heavy duty PTT switch with 14-pin connector. Use with HS94/HS95/HS97. | \$150.00 |
| Microphones | | |
| HM184H | 14-pin loud waterproof speaker mic (no accessory jack) | \$118.00 |
| HM-HD7I6WP | Large waterproof, high gain speaker microphone with 3.5mm accessory jack (14-pin connector) | \$120.00 |
| IMPACT HD3-I6 | Lightweight heavy duty use speaker mic with 3.5mm accessory jack (14-pin connector) | \$98.00 |
| OTTO V110433 | Speaker mic earpiece (3.5mm right angle plug) | \$0.00 |
| SP-AT1 | Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape) | \$31.50 |
| Miscellaneous | | |
| AD118 | 14-pin ACC adapter to use with Hirose plug accessories | \$80.00 |
| RedHawk | | |
| IAS BC-RHADPTR | 100-240V charger adapter for use with the IAS OPC-RHUSB | \$70.00 |
| IAS BC-RHCHG1 | 100-240V single unit charger for RedHawk mic | \$105.00 |
| IAS BC-RHCHG12 | 100-240V 12 unit charger for the RedHawk mics | \$1,000.00 |
| IAS BP-RHBATT1 | 3.8V 1200mAh battery for RedHawk mic | \$45.00 |
| IAS CP-RHLP | 12-24V cigarette lighter plug requiring 2 USB cables | \$60.00 |
| IAS CS-RHSW | Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed. | \$120.00 |
| IAS OPC-RHI14 | RedHawk 14-pin cable connects GPS mic to radio (works in analog, P25 digital and IDAS) | \$275.00 |
| IAS OPC-RHUSB | USB cable to connect mic with PC or charger adapter. One comes with each microphone. | \$30.00 |
| IAS REDHAWK | Speaker microphone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required. | \$584.00 |
| Software & Cables | | |
| CSF9010/F9510 | F9011/9511 programming software | \$72.00 |
| OPC1534 | Key Loader cable for P25 radio to KVL3000/4000. For portables: requires OPC-1871, RJ45 female to RJ45 female & 8920001690. For mobiles: requires RJ45 female to RJ45 female & 8920001690. | \$225.00 |

Accessories

| Model | Description | MSRP |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| OPC1862 | USB programming cloning cable for radios with 14-pin connector | \$189.00 |
| OPC1870 | Radio to radio cloning cable between two 14-pin connector portable radios | \$125.00 |
| OPC1871 | Radio to radio cloning cable between 14-pin connector portable & mobile radio; used in conjunction with the OPC1534 for encryption key loading on the F7010 portable series | \$110.00 |
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$0.00 |
| Trunking | | |
| ISL-3 | P25 trunking upgrade for the F9011/9511 series radios | \$500.00 |

F7010 – F7020 – F7040 Series

P25 Conventional & Analog Portables

SPECS

| | |
|--------------------|------------------------------|
| Frequencies: | 136-174, 380-470, 450-512MHz |
| Output Power: | 5W |
| Channels: | 1024 w/128 zones |
| Display: | High resolution color LCD |
| Mil Spec: | C, D, E, F & G |
| Waterproof Rating: | IP68 |
| Weight: | 12.5oz |



FEATURES

General Features:

- GPS built-in
- Bluetooth™ built-in
- Intuitive user interface
- Digital voice recorder – record up to 500 hours with 32GB microSD card
- Man down, motion detection, stationary detection, lone worker, and power OFF emergency
- AquaQuake™
- Audio equalizer
- Day and night mode display settings

P25 Digital Features:

- P25 conventional
- P25 Phase 1 trunking option
- P25 Phase 2 trunking option
- P25 vote scan option
- Analog/digital mixed operation
- Individual, group call
- Unit ID and talkgroup display on receive
- Status call and polling
- Short data message (up to 100 characters)
- Page call
- Phone number list
- Call log

COMES WITH

Battery (BP-284)
Belt Clip (MB-133)
Owner's manual
Warranty: 3 years

ENCRYPTION

AES/DES: UT-134 + license key
FIPS AES: UT-125 FIPS-2 + license key

SIGNALING

2-tone, CTCSS, DTCSS tone
MDC functions
DTMF autodial

Configurations

| Model | Description | MSRP |
|-----------|------------------------------------------------------------------------------------------------------|------------|
| F7010S | 136-174MHz P25 conventional portable without a full keypad. Purchase antenna and charger separately. | \$1,580.00 |
| F7010T | 136-174MHz P25 conventional portable with full DTMF keypad. Purchase antenna and charger separately. | \$1,650.00 |
| F7040S | 7/800MHz P25 conventional portable with partial keypad. | \$1,600.00 |
| F7040T | 7/800MHz P25 conventional portable with full DTMF keypad. | \$1,670.00 |
| F7020S 11 | 380-470MHz P25 conventional portable without a full keypad. Purchase antenna and charger separately. | \$1,580.00 |
| F7020T 21 | 380-470MHz P25 conventional portable with full DTMF keypad. Purchase antenna and charger separately. | \$1,650.00 |
| F7020S 31 | 450-512MHz P25 conventional portable without a full keypad. Purchase antenna and charger separately. | \$1,580.00 |
| F7020T 41 | 450-512MHz P25 conventional portable with full DTMF keypad. Purchase antenna and charger separately. | \$1,650.00 |

Accessories

| Model | Description | MSRP |
|------------|----------------------------------------------------------|----------|
| EXTWARR811 | 1 year extended warranty | \$65.00 |
| EXTWARR812 | 2 year extended warranty | \$93.00 |
| EXTWARR813 | 3 year extended warranty | \$130.00 |
| ISL-P25W | Enable 25kHz in the F7010/F7510 radios | \$5.00 |
| QCRRS09 | 3 year comprehensive radio repair service for P25 radios | \$0.00 |

Antennas

| | | |
|---------|--------------------------------------------|---------|
| FAS100U | 7/800MHz antenna | \$20.00 |
| FAS67VC | 136-174MHz cut antenna - F3400/F7010/F9011 | \$30.00 |
| FAS76UC | 380-520MHz cut antenna for F4400/F9021 | \$30.00 |
| FAS81U | 380-430MHz antenna for F4400 | \$17.00 |
| FAS81US | 400-450MHz stubby antenna for F4400 | \$17.00 |
| FAS81V | 136-150MHz antenna for F3400/F7010/F9011 | \$20.00 |
| FAS81VS | 136-150MHz stubby antenna for F3400 | \$19.00 |
| FAS82U | 430-480MHz antenna for F4400 | \$17.00 |
| FAS82US | 450-490MHz stubby antenna for F4400 | \$17.00 |
| FAS82V | 148-162MHz antenna | \$20.00 |

Accessories

| Model | Description | MSRP |
|-----------------------|------------------------------------------------------------------------------------------------------|----------|
| FAS82VS | 148-162MHz stubby antenna | \$19.00 |
| FAS83U | 470-520MHz antenna for F4400 | \$17.00 |
| FAS83V | 160-174MHz antenna for F3400 | \$20.00 |
| FAS83VS | 160-174MHz stubby antenna for F3400 | \$19.00 |
| Batteries | | |
| BP284 | Li-ion 7.4V 3210mAh (typical capacity), 3070mAh (minimum value) | \$175.00 |
| Belt Clips | | |
| MB133 | Alligator type belt clip | \$17.00 |
| MB136 | Swivel belt clip for F1000/F3400/F7010/F52D/M85 series | \$15.00 |
| MB96N | Swivel belt hanger to use with standard belt clip | \$37.00 |
| Cables | | |
| IAOPC1003 | USB to micro-USB 3ft cable | \$12.00 |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| OPC656 | DC power cable for gang charger | \$12.00 |
| Carrying Cases | | |
| LCF1035SW | Leather case with swivel belt loop and D-ring; display cutout for the F3400DS & F7010S | \$50.00 |
| LCF1036SW | Leather case with swivel belt loop and D-ring; display & full keypad cutout for the F3400DT & F7010T | \$50.00 |
| NCF1035C | Nylon case with metal clip with display cutout; F3400DS/F7010S | \$27.00 |
| NCF1036C | Nylon case with metal clip with full keypad cutout; F3400DT/F7010T | \$27.00 |
| Chargers | | |
| BC123SA | AC adapter for rapid chargers; 100-240V with US style plug | \$25.00 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |
| BC214-1 | Six gang charger (includes AC adapter with US plug) | \$510.00 |
| BC214-1E | Six gang charger (includes AC adapter with Euro plug) | \$510.00 |

Accessories

| Model | Description | MSRP |
|------------------------------------------|-----------------------------------------------------------------------------------------------------|------------|
| BC219E | Rapid charger for radios with the BP283/BP28/BP290/BP294 batteries; 100-240V with a Euro style plug | \$70.00 |
| BC219N | Rapid charger for radios with the BP283/BP284; 100-240V with a US style plug | \$70.00 |
| BC225 | Smart rapid charger; 100-240V with a US style plug | \$135.00 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| IABC1019 | Heavy duty vehicular charger | \$400.00 |
| SS BC62 | Mobile rapid charger with cigarette adapter for the F3400 & F7010 series | \$235.00 |
| Encryption & Internal Modules | | |
| INSTALL-MF | Install a component into an LM mobile or portable | \$0.00 |
| ISL-P25AES | AES activation key enables AES in radio (requires UT134 or UT125 FIPS-2) | \$360.00 |
| KA KVL125 | KVL unit powered by 9-volt battery | \$3,185.00 |
| OPC-IAKVL14 | Interface Cable with 14 Pin Connector between P25 portable & KA KVL125 | \$230.00 |
| UT125 FIPS-2 | FIPS 140-2 encryption board; requires ISL-P25AES license key to activate AES | \$830.00 |
| UT134 | AES/DES encryption board; requires ISL code to activate AES | \$185.00 |
| Headsets | | |
| HS94 | Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392 | \$25.00 |
| HS95 | Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392 | \$215.00 |
| HS97 | Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392 | \$42.00 |
| VS1MC | VOX/PTT case with 14-pin connector. Must use with HS94/HS95/HS97. | \$84.00 |
| VS3 | Compact clippable PTT Bluetooth with earphone via 3.5mm jack for all-day operation | \$149.00 |
| VS4MC | Cable with heavy duty PTT switch with 14-pin connector. Use with HS94/HS95/HS97. | \$150.00 |
| Licenses | | |
| ISL-P25DS | P25 packet data service (GPS/text) license | \$175.00 |
| ISL-P25FP | Front panel programming | \$330.00 |
| ISL-P25VS | P25 conventional voting scan license | \$120.00 |
| Microphones | | |
| HM184H | 14-pin loud waterproof speaker mic (no accessory jack) | \$118.00 |
| HM222 | IP68 waterproof speaker microphone w/3.5mm accessory jack (14-pin connector) | \$145.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| HM-HD7I6WP | Large waterproof, high gain speaker microphone with 3.5mm accessory jack (14-pin connector) | \$120.00 |
| IAHM600 | Heavy duty Bluetooth speaker microphone with loud audio, water/dust resistant & 40+ hours of talk time (charger included) | \$215.00 |
| SP27 | Acoustic tube earphone with a clip (3.5mm) | \$35.00 |
| SP29 | Earhook type earphone with 3.5mm plug | \$25.00 |
| SP40 | Earphone with 3.5mm plug | \$30.00 |
| SP-AT1 | Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape) | \$31.50 |
| Miscellaneous | | |
| AD118 | 14-pin ACC adapter to use with Hirose plug accessories | \$80.00 |
| Software & Cables | | |
| CSF7510 | Programming software for the F7010 & F7510 P25 radios | \$100.00 |
| CSOTPM2 | P25 over-the-air programming (OTAP) manager software; support only conventional mode | \$800.00 |
| IASKF7P | System Owner Master Key (SOMK); USB Dongle and CS-F7500ASK "P25 Advanced System Key (ASK) Manager Application" Note: Available only to P25 trunking system owners and requires the completion of the "P25 System Key Request Form" by the P25 Trunking System Owner | \$500.00 |
| IASKF7S | Accessory Advanced System Key (AASK) USB dongle required for programming P25 trunking parameters. Note: shipped unprogrammed; requires P25 trunking system owner to program | \$225.00 |
| OPC1534 | Key Loader cable for P25 radio to KVL3000/4000. For portables: requires OPC-1871, RJ45 female to RJ45 female & 8920001690. For mobiles: requires RJ45 female to RJ45 female & 8920001690. | \$225.00 |
| OPC1870 | Radio to radio cloning cable between two 14-pin connector portable radios | \$125.00 |
| OPC1871 | Radio to radio cloning cable between 14-pin connector portable & mobile radio; used in conjunction with the OPC1534 for encryption key loading on the F7010 portable series | \$110.00 |
| OPC2338 | 14-pin programming cable plus transparent data transfer | \$235.00 |
| OPC2362 | Handheld to mobile zone copy cable (14-pin to 10-pin DIM) | \$100.00 |
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$0.00 |
| RSBC225 | Battery management software for the BP-283/284/BP290. Can connect up to 30 BC-225 chargers to it. | \$250.00 |
| Trunking | | |
| ISL-P25P2 | P25 Phase 2 trunking license (Phase 1 license required) | \$420.00 |
| ISL-P25TR | P25 Phase 1 trunking license | \$500.00 |

Mobiles



F5011 - F6011 Series

Basic Analog Mobiles

SPECS

| | |
|--------------------|----------------------------------|
| Frequencies: | 136-174, 400-470, 450-512MHz |
| Output Power: | 50W (VHF), 45W (UHF) |
| Channels: | 8 with 2 zones |
| Channel Spacing: | 12.5kHz |
| Programmable Keys: | 4 |
| Mil Spec: | 810 C, D, E |
| Scan: | Normal, priority & dual priority |



FEATURES

Priority scan function allows you to monitor one or two priority channels while scanning other non-priority channels
Tx channel and talk back functions allow you to make a quick response while scanning
4W speaker
Microphone hanger action programmable
Time out timer, lock-out penalty timer
Talk around function
Power-on password
Nuisance delete function

SIGNALING

CTCSS / DCS Encode/Decode
DTMF Encode
2/5 Tone

- Up to 10 2-tone codes can be decoded on a channel
- Up to 8 5-tone codes can be decoded on a channel

MDC1200

- PTT ID(Tx)
- Emergency call (Tx)
- Radio check (Rx)
- Stun/revive (Rx)

DTMF decode & autodial: UT-108R

COMES WITH

Microphone (HM-152)
Mounting bracket (F121 MMB)
Power cable (OPC-1132)
Owner's manual
Warranty: 2 years

ENCRYPTION

Simple Inversion: UT-109R 32 Codes
Rolling Code: UT-110R 1020 Codes



Configurations

| Model | Description | MSRP |
|----------|-------------------|----------|
| F5011 51 | 136-174MHz mobile | \$346.00 |
| F6011 51 | 400-470MHz mobile | \$346.00 |
| F6011 52 | 450-512MHz mobile | \$346.00 |

Accessories

| Model | Description | MSRP |
|------------|----------------------------------------------|---------|
| ENGRAVE | Engrave radio | \$0.00 |
| EXTWARR211 | 1 year extended warranty for a total 3 years | \$25.00 |
| EXTWARR212 | 2 year extended warranty for a total 4 years | \$44.00 |
| EXTWARR213 | 3 year extended warranty for a total 5 years | \$62.00 |

Antennas

| | | |
|-----------|--------------------------------------------------------------------------------|---------|
| ANTENNA 1 | 118-940MHz 1/4 wave antenna, unity gain, field tunable | \$18.00 |
| ANTENNA 2 | 144-174MHz 3dB gain mountable antenna, CHR, 59" high | \$43.00 |
| ANTENNA 3 | 450-470MHz 5dB gain mountable antenna, CHR, 40" high | \$55.00 |
| ANTENNA 4 | 152-162MHz, unity gain antenna, NMO compatible, 21.6". Factory tuned to 157MHz | \$20.00 |

Cables

| | | |
|---------|-----------------------------------------------------------------------------------------------------------------------------|----------|
| OPC1132 | DC power cable (9.8ft) with 2-pin T connector. | \$45.00 |
| OPC1939 | D-Sub 15-pin ACC cable. Connects with a PC, external speaker, external channel control, ignition sense line or vehicle horn | \$95.00 |
| OPC2078 | D-Sub 25-pin ACC cable. Connects with a PC, external speaker, external channel control, ignition sense line or vehicle horn | \$120.00 |
| OPC347 | DC power cable (23ft) | \$70.00 |

Encryption & Internal Modules

| | | |
|------------|--------------------------------------------------------------------------------------------------------|----------|
| INSTALL-MF | Install a component into an LM mobile or portable | \$0.00 |
| UT109R 21 | Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110. | \$105.00 |
| UT110R 21 | Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. Works only in analog mode. | \$173.00 |

External Speakers

| | | |
|------|----------------------------|----------|
| SP30 | 20W large external speaker | \$110.00 |
|------|----------------------------|----------|

Accessories

| Model | Description | MSRP |
|------------------------------|----------------------------------------------------------------------------------|----------|
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| Manuals | | |
| 94415596 | F5011 CD service manual | \$28.97 |
| 94415697 | F6011 CD service manual | \$0.00 |
| 97715595 | F5011 service manual hardcopy | \$31.45 |
| 97715696 | F6011 service manual hardcopy | \$0.00 |
| 98815594 | F5011/6011 owner's manual | \$14.00 |
| Microphones | | |
| HM148G | Self grounding microphone for mobile radios | \$67.00 |
| HM148T | DMTF mobile microphone | \$110.00 |
| HM152 | Standard microphone for low/mid range mobile radios | \$44.00 |
| HM152T | DTMF modular microphone for LM mobile radios | \$90.00 |
| HM211 | Noise cancelling mobile hand microphone | \$145.00 |
| SM26 | Desktop microphone with monitor switch for mobile radios | \$90.00 |
| Mounting Hardware | | |
| F121 MMB | Mounting bracket F121/F221 F5011/F5021 series | \$10.00 |
| MOUNT 1 | NMO Permanent Mount, 17ft RG58 cable, PL259 connector | \$23.00 |
| MOUNT 2 | Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259 | \$38.00 |
| MOUNT 3 | Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector | \$45.00 |
| Power Supplies | | |
| CONTROL STATION ASSEMBLE | Install mobile into power supply and cabinet to make control station | \$0.00 |
| ICT CS120-20AG/IC04 | 110V power supply and cabinet for control station use for F5011/5021/F5121/F5220 | \$250.00 |
| ICT IC04 220V | 220V power supply and cabinet for control station use for F5011/5021 | \$275.00 |
| Software & Cables | | |
| CSF3021/F5021/F5011 | F3021/5021/5011 series programming software | \$72.00 |
| OPC1122U | PC to mobile radio programming cloning cable with USB connector. | \$99.00 |

Accessories

| Model | Description | MSRP |
|---------|--------------------------------------------------------------------------------------|--------|
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$0.00 |

F5021 - F6021 Series

Advanced Analog Mobiles

SPECS

| | |
|--------------------|-----------------------------------|
| Frequencies: | 136-174, 400-470, 450-512MHz |
| Output Power: | 50W (VHF), 45W (UHF) |
| Channels: | 128 channels, 8 zones |
| Channel Spacing: | 12.5 kHz |
| Display: | LCD with 8 character alphanumeric |
| Programmable Keys: | 6 |
| Mil Spec: | 810 C, D, E, F |
| Scan: | Normal & priority |



FEATURES

External memory channel control w/ optional ACC cable
Tx channel setting & talk back function
Radio kill, stun, revive
Embedded ESN
Mode dependent scan
Lone worker function
Power-on password
Nuisance delete function

SIGNALING

CTCSS / DCS Encode/Decode

2/5 Tone Encode/Decode

- Up to 10 2-tone codes can be decoded on a channel
- Up to 8 5-tone codes can be decoded on a channel
- Programmable items for codes: Beep sound, Answer back, Scan, Bell icon, Radio stun/kill

MDC1200

- PTT ID (Tx/Rx)
- Radio stun (Rx)
- Emergency TX/RX
- Radio check (Rx)
- Radio revive (Rx)
- 5 alias table

DTMF Encode

COMES WITH

Microphone (HM-152)
Mounting bracket
Power cable (OPC-1132)
Owner's manual
Warranty: 2 years

ENCRYPTION

Simple Inversion: UT-109R 32 Codes
Rolling Code: UT-110R 1020 Codes



Configurations

| Model | Description | MSRP |
|----------|-------------------|----------|
| F5021 51 | 136-174MHz mobile | \$395.00 |
| F6021 51 | 400-470MHz mobile | \$395.00 |
| F6021 52 | 450-512MHz mobile | \$395.00 |

Accessories

| Model | Description | MSRP |
|------------|----------------------------------------------|---------|
| ENGRAVE | Engrave radio | \$0.00 |
| EXTWARR211 | 1 year extended warranty for a total 3 years | \$25.00 |
| EXTWARR212 | 2 year extended warranty for a total 4 years | \$44.00 |
| EXTWARR213 | 3 year extended warranty for a total 5 years | \$62.00 |

Antennas

| | | |
|-----------|--------------------------------------------------------------------------------|---------|
| ANTENNA 1 | 118-940MHz 1/4 wave antenna, unity gain, field tunable | \$18.00 |
| ANTENNA 2 | 144-174MHz 3dB gain mountable antenna, CHR, 59" high | \$43.00 |
| ANTENNA 3 | 450-470MHz 5dB gain mountable antenna, CHR, 40" high | \$55.00 |
| ANTENNA 4 | 152-162MHz, unity gain antenna, NMO compatible, 21.6". Factory tuned to 157MHz | \$20.00 |

Cables

| | | |
|---------|-----------------------------------------------------------------------------------------------------------------------------|----------|
| OPC1132 | DC power cable (9.8ft) with 2-pin T connector. | \$45.00 |
| OPC1939 | D-Sub 15-pin ACC cable. Connects with a PC, external speaker, external channel control, ignition sense line or vehicle horn | \$95.00 |
| OPC2078 | D-Sub 25-pin ACC cable. Connects with a PC, external speaker, external channel control, ignition sense line or vehicle horn | \$120.00 |
| OPC347 | DC power cable (23ft) | \$70.00 |

Encryption & Internal Modules

| | | |
|------------|--------------------------------------------------------------------------------------------------------|----------|
| INSTALL-MF | Install a component into an LM mobile or portable | \$0.00 |
| UT109R 21 | Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110. | \$105.00 |
| UT110R 21 | Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. Works only in analog mode. | \$173.00 |

External Speakers

| | | |
|------|----------------------------|----------|
| SP30 | 20W large external speaker | \$110.00 |
|------|----------------------------|----------|

Accessories

| Model | Description | MSRP |
|------------------------------|----------------------------------------------------------------------------------|----------|
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| Manuals | | |
| 94415499 | F5021 CD service manual | \$0.00 |
| 94415641 | F6021 CD service manual | \$0.00 |
| 97715439 | F5021 service manual | \$0.00 |
| 97715473 | F6021 service manual | \$0.00 |
| 98815638 | F5021/6021 owner's manual | \$0.00 |
| Microphones | | |
| HM148G | Self grounding microphone for mobile radios | \$67.00 |
| HM148T | DMTF mobile microphone | \$110.00 |
| HM152 | Standard microphone for low/mid range mobile radios | \$44.00 |
| HM152T | DTMF modular microphone for LM mobile radios | \$90.00 |
| HM211 | Noise cancelling mobile hand microphone | \$145.00 |
| SM26 | Desktop microphone with monitor switch for mobile radios | \$90.00 |
| Mounting Hardware | | |
| F121 MMB | Mounting bracket F121/F221 F5011/F5021 series | \$10.00 |
| MOUNT 1 | NMO Permanent Mount, 17ft RG58 cable, PL259 connector | \$23.00 |
| MOUNT 2 | Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259 | \$38.00 |
| MOUNT 3 | Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector | \$45.00 |
| Power Supplies | | |
| CONTROL STATION ASSEMBLE | Install mobile into power supply and cabinet to make control station | \$0.00 |
| ICT CS120-20AG/IC04 | 110V power supply and cabinet for control station use for F5011/5021/F5121/F5220 | \$250.00 |
| ICT IC04 220V | 220V power supply and cabinet for control station use for F5011/5021 | \$275.00 |
| Software & Cables | | |
| CSF3021/F5021/F5011 | F3021/5021/5011 series programming software | \$72.00 |
| OPC1122U | PC to mobile radio programming cloning cable with USB connector. | \$99.00 |

Accessories

| Model | Description | MSRP |
|---------|--------------------------------------------------------------------------------------|--------|
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$0.00 |

F5121D - F6121D Series

IDAS™ Mobiles

SPECS

| | |
|--------------------|-------------------------------------------------------------------|
| Frequencies: | 136-174, 400-470, 450-512MHz |
| Output Power: | 50W (VHF), 45W (UHF) |
| Channels: | 128 with 8 zones |
| Channel Spacing: | 12.5kHz; 6.25kHz Digital |
| LCD Display: | 8 Character alphanumeric LCD with backlit or night time operation |
| Programmable Keys: | 7 |
| Mil Spec: | 810 C, D, E, F |
| Scan: | Normal, priority & dual priority |



FEATURES

General Features:

- Lone worker function
- Power-on password function
- Time out timer
- Mic hanger action programmable

Digital Features:

- IDAS™ conventional
- IDAS™ single-site trunking
- Digital / Analog mixed mode operation
- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- 64 Radio Access Numbers (RAN)
- GPS receiver connection w/ optional OPC-2078 ACC cable
- Programmable features:
 - PTT ID
 - RAN (radio access number)
 - Individual/talkgroup list (max 500)
 - SDM (short data message)
 - Remote monitor (Rx)
 - Digital voice scrambler
 - Call alert, stun/kill/revive (Rx), Emergency
 - Status, Radio check (Rx)

COMES WITH

Microphone (HM-152)
Mounting bracket kit
DC Power cable (OPC-1132)
Owner's manual
Warranty: 2 years

SIGNALING

2/5 Tone in analog mode
CTCSS/DTCS encoder/decoder (analog only)
DTMF Encode
DTMF Decode: UT-108R
MDC1200

- PTT ID
- Emergency
- Radio check (Rx)
- Stun/revive (Rx)
- 500 alias table



Configurations

| Model | Description | MSRP |
|-----------|------------------------|----------|
| F5121D | 136-174MHz IDAS mobile | \$635.00 |
| F6121D 67 | 400-470MHz IDAS mobile | \$635.00 |
| F6121D 68 | 450-512MHz IDAS mobile | \$635.00 |

Accessories

| Model | Description | MSRP |
|------------|-----------------------------------------------------------|---------|
| ENGRAVE | Engrave radio | \$0.00 |
| EXTWARR211 | 1 year extended warranty for a total 3 years | \$25.00 |
| EXTWARR212 | 2 year extended warranty for a total 4 years | \$44.00 |
| EXTWARR213 | 3 year extended warranty for a total 5 years | \$62.00 |
| QCRRS01 | 3 year comprehensive radio repair service for IDAS radios | \$0.00 |

Antennas

| | | |
|-----------|--------------------------------------------------------------------------------|---------|
| ANTENNA 1 | 118-940MHz 1/4 wave antenna, unity gain, field tunable | \$18.00 |
| ANTENNA 2 | 144-174MHz 3dB gain mountable antenna, CHR, 59" high | \$43.00 |
| ANTENNA 3 | 450-470MHz 5dB gain mountable antenna, CHR, 40" high | \$55.00 |
| ANTENNA 4 | 152-162MHz, unity gain antenna, NMO compatible, 21.6". Factory tuned to 157MHz | \$20.00 |

Cables

| | | |
|---------|-----------------------------------------------------------------------------------------------------------------------------|----------|
| OPC1132 | DC power cable (9.8ft) with 2-pin T connector. | \$45.00 |
| OPC1939 | D-Sub 15-pin ACC cable. Connects with a PC, external speaker, external channel control, ignition sense line or vehicle horn | \$95.00 |
| OPC2078 | D-Sub 25-pin ACC cable. Connects with a PC, external speaker, external channel control, ignition sense line or vehicle horn | \$120.00 |
| OPC347 | DC power cable (23ft) | \$70.00 |

External Speakers

| | | |
|------|----------------------------------------------------------|----------|
| SP30 | 20W large external speaker | \$110.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |

GPS

| | | |
|----------|-------------------------------------------------------------------------------|--------|
| IA-10301 | GPS receiver for IDAS mobiles that connects to the DB-25 accessory connector. | \$0.00 |
|----------|-------------------------------------------------------------------------------|--------|

Accessories

| Model | Description | MSRP |
|--------------------------|----------------------------------------------------------------------------------|------------|
| Manuals | | |
| 94415608 | F5121D CD service manual | \$0.00 |
| 94415695 | F6121D CD service manual | \$0.00 |
| 97715607 | F5121D service manual - hardcopy | \$0.00 |
| 97715710 | F6121D service manual - hardcopy | \$0.00 |
| 98815606 | F5121D/6121D owner's manual | \$0.00 |
| Microphones | | |
| HM148G | Self grounding microphone for mobile radios | \$67.00 |
| HM148T | DMTF mobile microphone | \$110.00 |
| HM152 | Standard microphone for low/mid range mobile radios | \$44.00 |
| HM152T | DTMF modular microphone for LM mobile radios | \$90.00 |
| HM211 | Noise cancelling mobile hand microphone | \$145.00 |
| SM26 | Desktop microphone with monitor switch for mobile radios | \$90.00 |
| Mounting Hardware | | |
| F121 MMB | Mounting bracket F121/F221 F5011/F5021 series | \$10.00 |
| MOUNT 1 | NMO Permanent Mount, 17ft RG58 cable, PL259 connector | \$23.00 |
| MOUNT 2 | Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259 | \$38.00 |
| MOUNT 3 | Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector | \$45.00 |
| Power Supplies | | |
| CONTROL STATION ASSEMBLE | Install mobile into power supply and cabinet to make control station | \$0.00 |
| ICT CS120-20AG/IC04 | 110V power supply and cabinet for control station use for F5011/5021/F5121/F5220 | \$250.00 |
| ICT IC04 220V | 220V power supply and cabinet for control station use for F5011/5021 | \$275.00 |
| RedHawk | | |
| IAS BC-RHADPTR | 100-240V charger adapter for use with the IAS OPC-RHUSB | \$70.00 |
| IAS BC-RHCHG1 | 100-240V single unit charger for RedHawk mic | \$105.00 |
| IAS BC-RHCHG12 | 100-240V 12 unit charger for the RedHawk mics | \$1,000.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| IAS BP-RHBATT1 | 3.8V 1200mAh battery for RedHawk mic | \$45.00 |
| IAS CP-RHLP | 12-24V cigarette lighter plug requiring 2 USB cables | \$60.00 |
| IAS CS-RHSW | Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed. | \$120.00 |
| IAS OPC-RHUSB | USB cable to connect mic with PC or charger adapter. One comes with each microphone. | \$30.00 |
| IAS REDHAWK | Speaker microphone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required. | \$584.00 |
| Software & Cables | | |
| CSF3101D/F5121D | F3101D/F5121D series programming software | \$72.00 |
| OPC1122U | PC to mobile radio programming cloning cable with USB connector. | \$99.00 |
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$0.00 |

F5220D - F6220D Series

IDAS Trunking Mobiles

SPECS

| | |
|------------------|---------------------------|
| Frequencies: | 136-174, 400-470, 450-512 |
| Output Power: | 50W (VHF); 45W (UHF) |
| Channels: | 128 with 8 zones |
| Channel Spacing: | 15 / 12.5 / 6.25kHz |
| Mil Spec: | MIL 810 |
| Scan: | Priority/Vote/Roaming |
| Weight: | 2.4lb |



FEATURES

General Features:

- Channel announcement
- CTCSS/DTCS encoder/decoder
- Microphone hanger action programmable
- Power-on password function
- Talk around function
- Voting scan
- Nuisance delete function
- Time-out-timer, lock-out penalty

Digital Features:

- IDAS™ conventional
- IDAS multi-site and single-site trunking and IDAS multi-site conventional
- Up to 500 individual and up to 500 group ID aliases (Each for single-site/multi-site/conventional)
- PTT ID and ANI
- Call alert
- Status
- SDM (Short Data Message)
- Radio check (RX)
- RAN (Radio Access Number)
- Remote monitor (RX)
- Emergency
- Digital voice scrambler

COMES WITH

Hand Microphone (HM-152)
Mounting bracket kit
DC Power cable (OPC-1132)
Owner's manual
Warranty: 2 years



Configurations

| Model | Description | MSRP |
|-----------|------------------------|----------|
| F5220D | 136-174MHz IDAS mobile | \$665.00 |
| F6220D 11 | 400-470MHz IDAS mobile | \$665.00 |
| F6220D 22 | 450-512MHz IDAS mobile | \$665.00 |

Accessories

| Model | Description | MSRP |
|------------|-----------------------------------------------------------|---------|
| ENGRAVE | Engrave radio | \$0.00 |
| EXTWARR211 | 1 year extended warranty for a total 3 years | \$25.00 |
| EXTWARR212 | 2 year extended warranty for a total 4 years | \$44.00 |
| EXTWARR213 | 3 year extended warranty for a total 5 years | \$62.00 |
| QCRRS01 | 3 year comprehensive radio repair service for IDAS radios | \$0.00 |

Antennas

| | | |
|-----------|--------------------------------------------------------------------------------|---------|
| ANTENNA 1 | 118-940MHz 1/4 wave antenna, unity gain, field tunable | \$18.00 |
| ANTENNA 2 | 144-174MHz 3dB gain mountable antenna, CHR, 59" high | \$43.00 |
| ANTENNA 3 | 450-470MHz 5dB gain mountable antenna, CHR, 40" high | \$55.00 |
| ANTENNA 4 | 152-162MHz, unity gain antenna, NMO compatible, 21.6". Factory tuned to 157MHz | \$20.00 |

Cables

| | | |
|---------|-----------------------------------------------------------------------------------------------------------------------------|----------|
| OPC1132 | DC power cable (9.8ft) with 2-pin T connector. | \$45.00 |
| OPC1939 | D-Sub 15-pin ACC cable. Connects with a PC, external speaker, external channel control, ignition sense line or vehicle horn | \$95.00 |
| OPC2078 | D-Sub 25-pin ACC cable. Connects with a PC, external speaker, external channel control, ignition sense line or vehicle horn | \$120.00 |

External Speakers

| | | |
|------|----------------------------------------------------------|----------|
| SP30 | 20W large external speaker | \$110.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |

GPS

| | | |
|----------|-------------------------------------------------------------------------------|--------|
| IA-10301 | GPS receiver for IDAS mobiles that connects to the DB-25 accessory connector. | \$0.00 |
|----------|-------------------------------------------------------------------------------|--------|

Manuals

| | | |
|----------|----------------------------|---------|
| 94416649 | F6220D service manual - CD | \$28.97 |
|----------|----------------------------|---------|

Accessories

| Model | Description | MSRP |
|--------------------------|----------------------------------------------------------------------------------|------------|
| 94416651 | F5220D service manual - CD | \$28.97 |
| 97716648 | F6220D service manual - hardcopy | \$37.73 |
| 97716650 | F5220D service manual - hardcopy | \$0.00 |
| 98816647 | F5220D/6220D service manual - hardcopy | \$0.00 |
| Microphones | | |
| HM148G | Self grounding microphone for mobile radios | \$67.00 |
| HM148T | DMTF mobile microphone | \$110.00 |
| HM152 | Standard microphone for low/mid range mobile radios | \$44.00 |
| HM152T | DTMF modular microphone for LM mobile radios | \$90.00 |
| HM211 | Noise cancelling mobile hand microphone | \$145.00 |
| SM26 | Desktop microphone with monitor switch for mobile radios | \$90.00 |
| Mounting Hardware | | |
| F121 MMB | Mounting bracket F121/F221 F5011/F5021 series | \$10.00 |
| MOUNT 1 | NMO Permanent Mount, 17ft RG58 cable, PL259 connector | \$23.00 |
| MOUNT 2 | Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259 | \$38.00 |
| MOUNT 3 | Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector | \$45.00 |
| Power Supplies | | |
| CONTROL STATION ASSEMBLE | Install mobile into power supply and cabinet to make control station | \$0.00 |
| ICT CS120-20AG/IC04 | 110V power supply and cabinet for control station use for F5011/5021/F5121/F5220 | \$250.00 |
| ICT IC04 220V | 220V power supply and cabinet for control station use for F5011/5021 | \$275.00 |
| RedHawk | | |
| IAS BC-RHADPTR | 100-240V charger adapter for use with the IAS OPC-RHUSB | \$70.00 |
| IAS BC-RHCHG1 | 100-240V single unit charger for RedHawk mic | \$105.00 |
| IAS BC-RHCHG12 | 100-240V 12 unit charger for the RedHawk mics | \$1,000.00 |
| IAS BP-RHBATT1 | 3.8V 1200mAh battery for RedHawk mic | \$45.00 |
| IAS CP-RHLP | 12-24V cigarette lighter plug requiring 2 USB cables | \$60.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| IAS CS-RHSW | Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed. | \$120.00 |
| IAS OPC-RHUSB | USB cable to connect mic with PC or charger adapter. One comes with each microphone. | \$30.00 |
| IAS REDHAWK | Speaker microphone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required. | \$584.00 |
| Software & Cables | | |
| CSF3210D | Programming software for F3210D/4210D, F3230D/4230D & F5220D/6220D | \$72.00 |
| OPC1122U | PC to mobile radio programming cloning cable with USB connector. | \$99.00 |
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$0.00 |

F5061 - F6061 & F5061D - F6061D Series

Analog, LTR, or IDAS™ Digital Mobiles

SPECS

| | |
|--------------------|-------------------------------------------------------------------|
| Frequencies: | 136-174, 400-470, 450-512MHz |
| Output Power: | 50W (VHF), 45W (UHF) |
| Channels: | 512 channels, 128 zones |
| Channel Spacing: | 12.5kHz, 6.25kHz (D versions) |
| LCD Display: | Dot matrix, switchable 1 line 12 character or 2 line 24 character |
| Programmable Keys: | 7 |
| Mil Spec: | 810 C, D, E |
| Scan: | Normal, priority & dual priority |



FEATURES

General Features

- Basic LTR, Analog, Digital mixed mode
- Detachable front panel (req. separation kit)
- D-Sub accessory connector
- 8 DTMF autodial memories & ANI functions
- Power ON password
- Radio stun/kill
- Surveillance function (temp. turns LEDs off)
- Busy repeater lock out function

Digital Features:

- IDAS™ conventional
- IDAS multi-site and single-site trunking and IDAS multi-site conventional
- Voting mode scanning
- NXDN® Digital Air Interface
- Short & long data messages
- 64 Radio Access Numbers (RAN)
- Individual & group selective call
- Strongest site search
- Firmware upgrade over IP
- Configuration over IP

SIGNALING

CTCSS/DCS encode/decode
2/5 Tone
DTMF
ANI with 2/5 tone & DTMF
MDC1200

ENCRYPTION

Simple Inversion: UT-109R 32 Codes
Rolling Code: UT-110R 1020 Codes

COMES WITH

Microphone (HM-148G)
Mounting bracket
Power cable (OPC-1132)
Owner's manual
Warranty: 3 years

MULTITRUNK

IDAS™
ICOM DIGITAL ADVANCED SYSTEM



MDC 1200
Compatible

Configurations

| Model | Description | MSRP |
|-----------|----------------------------------------------------------------|----------|
| F5061 | 136-174MHz analog mobile | \$600.00 |
| F5061D | 136-174MHz IDAS mobile | \$785.00 |
| F5061D RR | 136-174MHz IDAS radio, RR firmware installed, HM-148T included | \$853.00 |
| F6061 41 | 400-470MHz analog mobile | \$600.00 |
| F6061 46 | 450-512MHz analog mobile | \$600.00 |
| F6061D 61 | 400-470MHz IDAS mobile | \$785.00 |
| F6061D 66 | 450-512MHz IDAS mobile | \$785.00 |

Accessories

| Model | Description | MSRP |
|---------------------|-----------------------------------------------------------|----------|
| ENGRAVE | Engrave radio | \$0.00 |
| EXTWARR611 | 1 year extended warranty | \$40.00 |
| EXTWARR612 | 2 year extended warranty | \$70.00 |
| EXTWARR613 | 3 year extended warranty | \$110.00 |
| QCRRS01 | 3 year comprehensive radio repair service for IDAS radios | \$0.00 |
| RR FIRMWARE UPGRADE | Add 3.1 RR firmware to your IDAS radio | \$16.66 |

Antennas

| | | |
|-----------|--------------------------------------------------------------------------------|---------|
| ANTENNA 1 | 118-940MHz 1/4 wave antenna, unity gain, field tunable | \$18.00 |
| ANTENNA 2 | 144-174MHz 3dB gain mountable antenna, CHR, 59" high | \$43.00 |
| ANTENNA 3 | 450-470MHz 5dB gain mountable antenna, CHR, 40" high | \$55.00 |
| ANTENNA 4 | 152-162MHz, unity gain antenna, NMO compatible, 21.6". Factory tuned to 157MHz | \$20.00 |

Cables

| | | |
|-----------------------|------------------------------------------------|---------|
| F5061 IGN SENSE CABLE | 96" cable with 3A fuse | \$15.00 |
| OPC1132 | DC power cable (9.8ft) with 2-pin T connector. | \$45.00 |
| OPC347 | DC power cable (23ft) | \$70.00 |

Encryption & Internal Modules

| | | |
|------------|---------------------------------------------------|--------|
| INSTALL-MF | Install a component into an LM mobile or portable | \$0.00 |
|------------|---------------------------------------------------|--------|

Accessories

| Model | Description | MSRP |
|--------------------------|---------------------------------------------------------------------------------------------------------|----------|
| UT109R 21 | Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110. | \$105.00 |
| UT110R 21 | Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. Works only in analog mode. | \$173.00 |
| UT126H 03 | 6.25kHz digital module for old PLL versions of the F3161/4161 or F5061/6061 radios | \$250.00 |
| UT-IA100 | Audio amp board for F5061D with RR firmware installed (factory install ONLY; install included in price) | \$130.00 |
| External Speakers | | |
| SP30 | 20W large external speaker | \$110.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| Filters | | |
| PW LF-1 | Noise filter to use with the F5061D with the UT-IA100 already installed. | \$63.00 |
| GPS | | |
| IA-10301 | GPS receiver for IDAS mobiles that connects to the DB-25 accessory connector. | \$0.00 |
| Manuals | | |
| 94415251 | F5061/F6061 CD service manual | \$28.97 |
| 97715252 | F5061/D service manual - hardcopy | \$28.18 |
| 97715259 | F6061/D service manual - hardcopy | \$0.00 |
| 98815253 | F5061/D owner's manual | \$14.34 |
| 98815260 | F6061/D owner's manual | \$0.00 |
| Microphones | | |
| HM148G | Self grounding microphone for mobile radios | \$67.00 |
| HM148T | DMTF mobile microphone | \$110.00 |
| HM152 | Standard microphone for low/mid range mobile radios | \$44.00 |
| HM152T | DTMF modular microphone for LM mobile radios | \$90.00 |
| HM211 | Noise cancelling mobile hand microphone | \$145.00 |
| SM26 | Desktop microphone with monitor switch for mobile radios | \$90.00 |

Accessories

| Model | Description | MSRP |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Miscellaneous | | |
| IA-10401 | Split dispatch dongle | \$100.00 |
| Mounting Hardware | | |
| F5061 MMB | Mounting bracket included with the F5061/F6061 | \$10.00 |
| MOUNT 1 | NMO Permanent Mount, 17ft RG58 cable, PL259 connector | \$23.00 |
| MOUNT 2 | Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259 | \$38.00 |
| MOUNT 3 | Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector | \$45.00 |
| Power Supplies | | |
| CONTROL STATION ASSEMBLE | Install mobile into power supply and cabinet to make control station | \$0.00 |
| ICT CS120-20AG/IC09 | 110V power supply and cabinet for control station use for F5061/6061 | \$250.00 |
| ICT IC09 220V | 220V power supply and cabinet for control station use for F5061/6061 | \$275.00 |
| RedHawk | | |
| IAS BC-RHADPTR | 100-240V charger adapter for use with the IAS OPC-RHUSB | \$70.00 |
| IAS BC-RHCHG1 | 100-240V single unit charger for RedHawk mic | \$105.00 |
| IAS BC-RHCHG12 | 100-240V 12 unit charger for the RedHawk mics | \$1,000.00 |
| IAS BP-RHBATT1 | 3.8V 1200mAh battery for RedHawk mic | \$45.00 |
| IAS CP-RHLP | 12-24V cigarette lighter plug requiring 2 USB cables | \$60.00 |
| IAS CS-RHSW | Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed. | \$120.00 |
| IAS OPC-RHUSB | USB cable to connect mic with PC or charger adapter. One comes with each microphone. | \$30.00 |
| IAS REDHAWK | Speaker microphone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required. | \$584.00 |
| Remote Mounting | | |
| OPC607 | 3m/9.8ft separation cable for remote mounting kits | \$57.00 |
| OPC608 | 8m/26.2ft separation cable for remote mounting kits | \$76.00 |
| OPC609 | 1.9m/6.2ft separation cable for remote mounting kits | \$55.00 |
| OPC726 | 5m/16.4ft separation cable for remote mounting kits | \$65.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| RMK3 01 | F5061/6061 bracket & face plate for remote mounting. Separation cable not included | \$110.00 |
| Software & Cables | | |
| CSF3161/F5061 | Software to program the F3161/4161 & F5061/6061 radios | \$72.00 |
| OPC1122U | PC to mobile radio programming cloning cable with USB connector. | \$99.00 |
| OPC1871 | Radio to radio cloning cable between 14-pin connector portable & mobile radio; used in conjunction with the OPC1534 for encryption key loading on the F7010 portable series | \$110.00 |
| PROGLM6789 | Icom to program your radio or IAS product | \$70.00 |
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$0.00 |

F5360D – F6360D Series

Analog and IDAS™ 12.5 kHz & 6.25 kHz Digital & Type-C Trunking

SPECS

| | |
|--------------------|-------------------------------------------------------------------|
| Frequencies: | 136-174, 400-470MHz |
| Output Power: | 50W (VHF), 45W (UHF) |
| Channels: | 512 channels, 128 zones |
| Channel Spacing: | 12.5kHz, 6.25kHz |
| LCD Display: | Dot matrix, switchable 1 line 12 character or 2 line 24 character |
| Programmable Keys: | 7 |
| Mil Spec: | 810 C, D, E |
| Scan: | Normal, priority & dual priority |



FEATURES

General Features

- Analog, Digital mixed mode
- GPS built-in (requires GPS antenna)
- D-Sub accessory connector
- 8 DTMF autodial memories & ANI functions
- Power ON password
- Radio stun/kill
- Surveillance function (temp. turns LEDs off)
- Busy repeater lock out function
- Menu driven user interface

Digital Features:

- IDAS™ conventional
- IDAS Type C trunking
- NXDN® Digital Air Interface
- 64 Radio Access Numbers (RAN)
- Individual & group selective call
- Strongest site search
- Transparent data
- Over-the-air alias

SIGNALING

CTCSS/DCS encode/decode
DTMF
MDC1200

COMES WITH

Microphone (HM-148G)
Mounting bracket
Power cable (OPC-1132)
Owner's manual
Warranty: 3 years



Configurations

| Model | Description | MSRP |
|-----------|----------------------------------------------|----------|
| F5360D 01 | 136-174MHz, 50W, GPS, 512CH, type-C trunking | \$865.00 |
| F6360D 01 | 400-470MHz, 45W, GPS, 512CH, type-C trunking | \$865.00 |

Accessories

| Model | Description | MSRP |
|--------------------------|--------------------------------------------------------------------------------|----------|
| EXTWARR611 | 1 year extended warranty | \$40.00 |
| EXTWARR612 | 2 year extended warranty | \$70.00 |
| EXTWARR613 | 3 year extended warranty | \$110.00 |
| Antennas | | |
| ANTENNA 1 | 118-940MHz 1/4 wave antenna, unity gain, field tunable | \$18.00 |
| ANTENNA 2 | 144-174MHz 3dB gain mountable antenna, CHR, 59" high | \$43.00 |
| ANTENNA 3 | 450-470MHz 5dB gain mountable antenna, CHR, 40" high | \$55.00 |
| ANTENNA 4 | 152-162MHz, unity gain antenna, NMO compatible, 21.6". Factory tuned to 157MHz | \$20.00 |
| Cables | | |
| OPC1132 | DC power cable (9.8ft) with 2-pin T connector. | \$45.00 |
| OPC347 | DC power cable (23ft) | \$70.00 |
| External Speakers | | |
| SP30 | 20W large external speaker | \$110.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| Microphones | | |
| HM148G | Self grounding microphone for mobile radios | \$67.00 |
| HM148T | DMTF mobile microphone | \$110.00 |
| HM152 | Standard microphone for low/mid range mobile radios | \$44.00 |
| HM152T | DTMF modular microphone for LM mobile radios | \$90.00 |
| HM211 | Noise cancelling mobile hand microphone | \$145.00 |
| SM26 | Desktop microphone with monitor switch for mobile radios | \$90.00 |

Accessories

| Model | Description | MSRP |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <i>Mounting Hardware</i> | | |
| F5061 MMB | Mounting bracket included with the F5061/F6061 | \$10.00 |
| MOUNT 1 | NMO Permanent Mount, 17ft RG58 cable, PL259 connector | \$23.00 |
| MOUNT 2 | Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259 | \$38.00 |
| MOUNT 3 | Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector | \$45.00 |
| <i>Power Supplies</i> | | |
| CONTROL STATION ASSEMBLE | Install mobile into power supply and cabinet to make control station | \$0.00 |
| ICT CS120-20AG/IC09 | 110V power supply and cabinet for control station use for F5061/6061 | \$250.00 |
| ICT IC09 220V | 220V power supply and cabinet for control station use for F5061/6061 | \$275.00 |
| <i>Software & Cables</i> | | |
| CSF3360D/F5360D | Programming software for the F3360D & F5360D series | \$90.00 |
| OPC1122U | PC to mobile radio programming cloning cable with USB connector. | \$99.00 |
| OPC1871 | Radio to radio cloning cable between 14-pin connector portable & mobile radio; used in conjunction with the OPC1534 for encryption key loading on the F7010 portable series | \$110.00 |
| OPC2344 | Modular connector programming cable plus Type-C NXDN transparent data transfer for F5360D/4360D | \$135.00 |
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$0.00 |

F5400D – F6400D Series

VHF UHF Digital Mobile Transceiver

SPECS

| | |
|--------------------|-------------------------------------------------|
| Frequencies: | 136-174, 380-470, 450-512MHz |
| Output Power: | 50W (VHF), 45W (UHF) |
| Channels: | 1024 channels w/128 zones |
| Channel Spacing: | 12.5kHz, 6.25kHz |
| LCD Display: | High-resolution color with icons and characters |
| Programmable Keys: | 7 (D); 5 (DS) |
| Mil Spec: | C, D, E, F, G |
| Weight: | 3.3lb |
| Waterproof Rating: | IP55 |
| Versions: | With full display With numeric number only |



FEATURES

General Features

- Basic LTR® / Conventional / IDAS
- GPS built-in
- Bluetooth™ built-in
- Intuitive user interface
- High-resolution color LCD
- Digital voice recorder – record up to 500 hours with 32GB microSD card
- Safety features: emergency button, lone worker function, and power OFF emergency function
- AquaQuake™
- Audio equalizer*
- D-Sub 25-pin ACC connector
- 20W audio amplifier for connecting with external public address system

Digital Features:

- IDAS™ conventional
- IDAS single-site and multi-site Type D trunking (optional upgrade)
- IDAS single-site and multi-site Type C trunking (optional upgrade)*
- Voting mode scanning
- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- Individual & group selective call

COMES WITH

Hand microphone (HM-220)
Mounting bracket kit
DC power cable
Microphone hanger
Owner's manual
Warranty: 3 years

ANALOG SIGNALING

2-tone, 5-tone, CTCSS and DTCS built-in
DTMF autodial and DTMF decode
MDC1200 compatible

ENCRYPTION

AES/DES UT-134
Over-the-Air Rekeying (requires license)*

*Future Availability

MULTITRUNK

IDAS
ICOM DIGITAL ADVANCED SYSTEM



MDC 1200
Compatible

Configurations

| Model | Description | MSRP |
|------------|-----------------------------------------------|----------|
| F5400DS 11 | 136-174MHz IDAS mobile with numerical display | \$940.00 |
| F5400D 01 | 136-174MHz IDAS mobile with color display | \$955.00 |
| F6400DS 11 | 380-470MHz IDAS mobile with numeric display | \$940.00 |
| F6400D 01 | 380-470MHz IDAS mobile with color display | \$955.00 |
| F6400D 21 | 450-512MHz IDAS mobile with color display | \$955.00 |

Accessories

| Model | Description | MSRP |
|------------|-----------------------------------------------------------|----------|
| ENGRAVE | Engrave radio | \$0.00 |
| EXTWARR811 | 1 year extended warranty | \$65.00 |
| EXTWARR812 | 2 year extended warranty | \$93.00 |
| EXTWARR813 | 3 year extended warranty | \$130.00 |
| QCRRS01 | 3 year comprehensive radio repair service for IDAS radios | \$0.00 |

Antennas

| | | |
|-------|-------------|---------|
| UX241 | GPS antenna | \$55.00 |
|-------|-------------|---------|

Cables

| | | |
|-----------|------------------------------------------------------|---------|
| IAOPC054 | Cable to wire the F5400/F6400 to an external speaker | \$30.00 |
| IAOPC1003 | USB to micro-USB 3ft cable | \$12.00 |

Encryption & Internal Modules

| | | |
|-----------|-------------------------------------------------------------|----------|
| CSKLD2 | Encryption key loader software for F3400/F5400 series | \$600.00 |
| ISL-AKAES | AES activation code for F3400/F5400 series | \$360.00 |
| UT134 | AES/DES encryption board; requires ISL code to activate AES | \$185.00 |

External Speakers

| | | |
|------|----------------------------------------------------------|----------|
| SP30 | 20W large external speaker | \$110.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |

Microphones

| | | |
|-------|---------------------------------------------------|----------|
| HM220 | Heavy duty microphone (IP54) for the F5400 series | \$100.00 |
|-------|---------------------------------------------------|----------|

Accessories

| Model | Description | MSRP |
|------------------------------|-------------------------------------------------------------------------------------------------------------|----------|
| HM220T | Heavy duty microphone with DTMF keypad (IP54) for the F5400 series | \$160.00 |
| HM221 | Microphone (IP55) for the F5400 series | \$100.00 |
| HM221T | Microphone with DTMF keypad (IP55) for the F5400 series | \$160.00 |
| SM29 | Desktop microphone for F5400 series | \$175.00 |
| Miscellaneous | | |
| ISL-AK25K | Add 25kHz into the radio | \$13.00 |
| ISL-CHEX | Memory channel expansion (4000 CH) | \$420.00 |
| MSD CARD | 32GB micro SD card | \$30.00 |
| Power Supplies | | |
| CONTROL STATION ASSEMBLE | Install mobile into power supply and cabinet to make control station | \$0.00 |
| IAPS12 | Power supply with cover for control station (120VAC; 12A) for low and mid power only | \$215.00 |
| IAPS12E | Power supply with cover for control station (220VAC; 12A) for low and mid power only | \$245.00 |
| Remote Mounting | | |
| HM218 | Secondary remote control microphone, COMMANDMIC, for the F5400D/F6400D. Requires RMK5 + OPC2373 or OPC2374. | \$500.00 |
| OPC2364 | 1.9m/6.2ft separation cable for RMK5/RMK7 | \$60.00 |
| OPC2365 | 3m/9.8ft separation cable for RMK5/RMK7 | \$63.00 |
| OPC2366 | 5m/16.4ft separation cable for RMK5/RMK7 | \$67.00 |
| OPC2367 | 8m/26.2ft separation cable for RMK5/RMK7 | \$80.00 |
| OPC2373 | 1.9m/6.2ft separation cable for HM218 | \$62.00 |
| OPC2374 | 8m/26.2ft separation cable for HM218 | \$95.00 |
| RMK5 | Bracket & face plate for remote mounting for the F5400D/F6400D. Separation cable not included. | \$215.00 |
| RMK7 | Dual head and separation kit for the F5400D/F6400D. Separation cables & microphone not included. | \$650.00 |
| Software & Cables | | |
| CSF3400D | Programming software for the F3400D/F5400D series | \$80.00 |
| CSOTPM1 | Over-the-air programming (OTAP) manager software | \$520.00 |

Accessories

| Model | Description | MSRP |
|-----------------|--------------------------------------------------------------------------------------|----------|
| OPC2362 | Handheld to mobile zone copy cable (14-pin to 10-pin DIM) | \$100.00 |
| OPC2363 | 10-pin DIM programming cable | \$110.00 |
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$0.00 |
| Trunking | | |
| ISL-UGMTR | Type D trunking license for single and multi-site trunking | \$125.00 |

F1721 - F2721/F2821 Series

High End Analog, P25 Conventional Mobiles

SPECS

| | |
|--------------------|----------------------------------------------------------------------|
| Frequencies: | 136-174, 400-470, 450-512MHz |
| Output Power: | 50W (VHF); 45W (UHF) |
| Channels: | 256 with 32 zones |
| Channel Spacing: | 12.5 / 25kHz |
| LCD Display: | Dot matrix, switchable 1 line 12 characters or 2 lines 24 characters |
| Programmable Keys: | 5 (simple version) or 7 (10-key version) |
| Mil Spec: | 810 C, D, E |
| Scan: | Normal, priority & dual priority |
| Versions: | Analog only (upgradeable to P25) P25 ready (D versions) |



FEATURES

General Features

- Detachable front panel
- Radio stun / kill
- Tactical group function
- Built-in audio compander (analog only)
- 22W PA built-in
- Power-on password function

Digital P25 Features

- Interoperability with other manufacturer's P25 digital radios in conventional mode
- Compatible w/ both analog FM & P25 digital mode

SIGNALING

MDC1200

CTCSS/DCS encode/decode

DTMF decode

2/5 tone encode/decode

Enhanced MDC (optional on analog)

ANI with 2/5 tone & DTMF

COMES WITH

Hand mic (HM-148G)

External speaker (SP-22) for F2821

Mounting bracket kit

DC Power cable (OPC-1132)

Owner's manual

Warranty: 2-Year

3-Year ("D" series)

ENCRYPTION

Simple Inversion: UT-109 02 32 Codes

Rolling Code: UT-110 02 1020 Codes



Configurations

| Model | Description | MSRP |
|-----------|----------------------------------------------|----------|
| F2821D 23 | 400-470MHz analog mobile, upgradeable to P25 | \$690.00 |

Accessories

| Model | Description | MSRP |
|------------|----------------------------------------------------------|----------|
| ENGRAVE | Engrave radio | \$0.00 |
| EX2785J01 | P25 activation software for F70/80 & F1721/2721 radios | \$680.00 |
| EX2785J03 | AES activation upgrade | \$656.00 |
| EXTWARR611 | 1 year extended warranty | \$40.00 |
| EXTWARR612 | 2 year extended warranty | \$70.00 |
| EXTWARR613 | 3 year extended warranty | \$110.00 |
| EXTWARR811 | 1 year extended warranty | \$65.00 |
| EXTWARR812 | 2 year extended warranty | \$93.00 |
| EXTWARR813 | 3 year extended warranty | \$130.00 |
| QCRRS09 | 3 year comprehensive radio repair service for P25 radios | \$0.00 |

Antennas

| | | |
|-----------|--------------------------------------------------------------------------------|---------|
| ANTENNA 1 | 118-940MHz 1/4 wave antenna, unity gain, field tunable | \$18.00 |
| ANTENNA 2 | 144-174MHz 3dB gain mountable antenna, CHR, 59" high | \$43.00 |
| ANTENNA 3 | 450-470MHz 5dB gain mountable antenna, CHR, 40" high | \$55.00 |
| ANTENNA 4 | 152-162MHz, unity gain antenna, NMO compatible, 21.6". Factory tuned to 157MHz | \$20.00 |

Cables

| | | |
|---------|--------------------------------------------------|---------|
| OPC1132 | DC power cable (9.8ft) with 2-pin T connector. | \$45.00 |
| OPC347 | DC power cable (23ft) | \$70.00 |
| OPC617 | Accessory cable for external terminal connection | \$65.00 |

Encryption & Internal Modules

| | | |
|------------|-----------------------------------------------------------------------------------------------------|------------|
| INSTALL-MF | Install a component into an LM mobile or portable | \$0.00 |
| KA KVL125 | KVL unit powered by 9-volt battery | \$3,185.00 |
| OPC-IAKVL1 | Interface Cable with RJ45 Connector between P25 mobiles & KA KVL125 | \$150.00 |
| UT109 02 | Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110. | \$105.00 |

Accessories

| Model | Description | MSRP |
|--------------------------|-----------------------------------------------------------------------------|----------|
| UT110 02 | Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. | \$173.00 |
| UT120 02 | P25 Hardware Upgrade Board - Mobiles | \$541.00 |
| External Speakers | | |
| SP30 | 20W large external speaker | \$110.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| Manuals | | |
| 94414901 | F1721/1821/2721/2821 service manual - CD | \$0.00 |
| 97714917 | F1721/D & F1821/D service manual hardcopy | \$0.00 |
| 98814877 | F1721/D, F1821/D, F2721/D, F2821/D owner's manual | \$0.00 |
| Microphones | | |
| HM148G | Self grounding microphone for mobile radios | \$67.00 |
| HM148T | DMTF mobile microphone | \$110.00 |
| HM152 | Standard microphone for low/mid range mobile radios | \$44.00 |
| HM152T | DTMF modular microphone for LM mobile radios | \$90.00 |
| HM211 | Noise cancelling mobile hand microphone | \$145.00 |
| SM26 | Desktop microphone with monitor switch for mobile radios | \$90.00 |
| Mounting Hardware | | |
| F1721 MMB | Mounting bracket for F1721/F1821, F2721/2821, F9011S/T | \$10.00 |
| MOUNT 1 | NMO Permanent Mount, 17ft RG58 cable, PL259 connector | \$23.00 |
| MOUNT 2 | Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259 | \$38.00 |
| MOUNT 3 | Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector | \$45.00 |
| Power Supplies | | |
| CONTROL STATION ASSEMBLE | Install mobile into power supply and cabinet to make control station | \$0.00 |
| ICT CS120-20A/IC06 | 110V power supply & cabinet for control station use on P25 radios | \$250.00 |
| ICT IC06 220V | 220V power supply & cabinet for control station use on P25 radios | \$255.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| RedHawk | | |
| IAS BC-RHADPTR | 100-240V charger adapter for use with the IAS OPC-RHUSB | \$70.00 |
| IAS BC-RHCHG1 | 100-240V single unit charger for RedHawk mic | \$105.00 |
| IAS BC-RHCHG12 | 100-240V 12 unit charger for the RedHawk mics | \$1,000.00 |
| IAS BP-RHBATT1 | 3.8V 1200mAh battery for RedHawk mic | \$45.00 |
| IAS CP-RHLP | 12-24V cigarette lighter plug requiring 2 USB cables | \$60.00 |
| IAS CS-RHSW | Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed. | \$120.00 |
| IAS OPC-RHI1D | RedHawk cable connects GPS mic to P25 mobile radios (works in both analog and P25 digital). May require AFO mod on radio. | \$225.00 |
| IAS OPC-RHUSB | USB cable to connect mic with PC or charger adapter. One comes with each microphone. | \$30.00 |
| IAS REDHAWK | Speaker microphone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required. | \$584.00 |
| Remote Mounting | | |
| OPC607 | 3m/9.8ft separation cable for remote mounting kits | \$57.00 |
| OPC608 | 8m/26.2ft separation cable for remote mounting kits | \$76.00 |
| OPC609 | 1.9m/6.2ft separation cable for remote mounting kits | \$55.00 |
| OPC726 | 5m/16.4ft separation cable for remote mounting kits | \$65.00 |
| RMK2 | F1721/1821 bracket & face plate for remote mounting. Separation cable not included | \$145.00 |
| Software & Cables | | |
| CSF70/F1700 | Cloning Software F70/F80/F1721/F1821/F2721/F282 | \$72.00 |
| OPC1122U | PC to mobile radio programming cloning cable with USB connector. | \$99.00 |
| OPC1532 | Radio to radio cloning cable between P25 mobile radios | \$42.00 |
| OPC1533 | Radio to radio cloning cable between F1721/2721/D series mobiles & F70/80/D portable radios | \$88.00 |
| OPC1534 | Key Loader cable for P25 radio to KVL3000/4000. For portables: requires OPC-1871, RJ45 female to RJ45 female & 8920001690. For mobiles: requires RJ45 female to RJ45 female & 8920001690. | \$225.00 |
| PROGLM6789 | Icom to program your radio or IAS product | \$70.00 |
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$0.00 |

F9511 - F9521 Series

P25 Trunking Mobiles

SPECS

| | |
|----------------------|----------------------------------------------------------------------------|
| Frequencies: | 136-174, 400-470, 450-520MHz |
| Output Power: | 50W or 110W (VHF), 50W (UHF) |
| Channels: | 512 / 128 zones |
| Channel Spacing: | 15/30 (analog), 12.5kHz (digital) |
| PLL Channel Spacing: | 2.5, 3.125kHz |
| LCD Display: | Dot matrix with backlighting and 2 lines of 12 characters each |
| Programmable Keys: | 5 (S) or 7 (T) |
| Mil Spec: | 810 C, D, E |
| Scan: | Normal, priority & dual priority |
| Waterproof Rating: | IP54 dust-protection and splash proof (controller only) |
| Versions: | 50W without a DTMF keypad 50W with DTMF keypad 110W with DTMF keypad |



FEATURES

General Features:

- 100 individual ID and 250 talkgroup ID memories
- Detachable front panel
- Programmable ACC port for external control, dimmer and horn control
- Dual head capable with 110W version
- Tactical group function
- 22W PA function with BTL amplifier
- RX speaker functions
- Scan settings – dual priority, mode dependent, talk back and more
- Built-in audio compander (analog only)
- Radio stun/kill function (P25 digital only)

P25 Digital Features:

- P25 digital conventional
- P25 digital trunking option
- DVSI's AMBE+2™ vocoder
- Digital/analog mixed mode operation
- P25 OTAR option

Compliant Standards:

- TIA/EIA TSB 102. CAAB compliant
- NTIA VHF specification compliant
- FIPS 140-2 (level 1) certified AES encryption

COMES WITH

Microphone (HM-148G)
Mounting bracket
Power cable
Owner's manual
Warranty: 3 years

F9511T includes the SP-35
F9511HT includes the OPC-726, but
requires an external speaker

ENCRYPTION

DES: UT-128
AES/DES: UT-125
AES FIPS: UT-125 FIPS

SIGNALING

CTCSS/DTCS encorder & decoder (analog
only)
2 Tone endocder & decoder (analog only)
MDC1200 (analog only)
DTMF audiodial (analog only)



Configurations

| Model | Description | MSRP |
|------------|---------------------------------------------------------------------------------------------------------------------|------------|
| F9511HT 21 | 136-174MHz 110W P25 Conventional mobile with full keypad. No external speaker included - must be ordered separately | \$2,700.00 |
| F9511S 01 | 136-174MHz P25 conventional 50W mobile | \$1,605.00 |
| F9511T 25 | 136-174MHz P25 Conventional 50W mobile with keypad | \$1,810.00 |
| F9521S 41 | 400-470MHz 45W P25 Conventional mobile, no keypad | \$1,690.00 |
| F9521T 25 | 400-470MHz mobile with full keypad | \$1,720.00 |
| F9521T 45 | 400-470MHz P25 Conventional 45W mobile, full keypad | \$1,810.00 |
| F9521S 31 | 450-512MHz 45W P25 conventional mobile, no keypad | \$2,060.00 |
| F9521S 51 | 450-512 MHz P25 conventional 45W mobile with no keypad | \$1,690.00 |
| F9521T 55 | 450-512MHz P25 Conventional 45W mobile with full keypad | \$1,810.00 |

Accessories

| Model | Description | MSRP |
|------------------------------------------|--------------------------------------------------------------------------------|----------|
| ENGRAVE | Engrave radio | \$0.00 |
| EXTWARR811 | 1 year extended warranty | \$65.00 |
| EXTWARR812 | 2 year extended warranty | \$93.00 |
| EXTWARR813 | 3 year extended warranty | \$130.00 |
| QCRRS09 | 3 year comprehensive radio repair service for P25 radios | \$0.00 |
| Antennas | | |
| ANTENNA 1 | 118-940MHz 1/4 wave antenna, unity gain, field tunable | \$18.00 |
| ANTENNA 2 | 144-174MHz 3dB gain mountable antenna, CHR, 59" high | \$43.00 |
| ANTENNA 3 | 450-470MHz 5dB gain mountable antenna, CHR, 40" high | \$55.00 |
| ANTENNA 4 | 152-162MHz, unity gain antenna, NMO compatible, 21.6". Factory tuned to 157MHz | \$20.00 |
| Cables | | |
| OPC1132 | DC power cable (9.8ft) with 2-pin T connector. | \$45.00 |
| OPC1962 | DC power cord for F9511HT | \$60.00 |
| OPC347 | DC power cable (23ft) | \$70.00 |
| Encryption & Internal Modules | | |
| INSTALL-MF | Install a component into an LM mobile or portable | \$0.00 |

Accessories

| Model | Description | MSRP |
|--------------------------|-----------------------------------------------------------------------------|------------|
| KA KVL125 | KVL unit powered by 9-volt battery | \$3,185.00 |
| OPC-IAKVL1 | Interface Cable with RJ45 Connector between P25 mobiles & KA KVL125 | \$150.00 |
| UT125 01 | AES/DES encryption board with OTAR compliance for F9011/F9511 series | \$695.00 |
| UT125 FIPS | FIPS 140-2 AES encryption board with OTAR compliance for F9011/F9511 series | \$789.00 |
| UT128 | DES encryption for F9011/F9511 radios | \$420.00 |
| External Speakers | | |
| SP30 | 20W large external speaker | \$110.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| Manuals | | |
| 94415436 | F9511 CD service manual | \$0.00 |
| 97715423 | F9511 service manual - hardcopy | \$0.00 |
| Microphones | | |
| HM148G | Self grounding microphone for mobile radios | \$67.00 |
| HM148T | DMTF mobile microphone | \$110.00 |
| HM211 | Noise cancelling mobile hand microphone | \$145.00 |
| SM26 | Desktop microphone with monitor switch for mobile radios | \$90.00 |
| Mounting Hardware | | |
| MOUNT 1 | NMO Permanent Mount, 17ft RG58 cable, PL259 connector | \$23.00 |
| MOUNT 2 | Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259 | \$38.00 |
| MOUNT 3 | Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector | \$45.00 |
| Power Supplies | | |
| CONTROL STATION ASSEMBLE | Install mobile into power supply and cabinet to make control station | \$0.00 |
| ICT CS120-20A/IC06 | 110V power supply & cabinet for control station use on P25 radios | \$250.00 |
| ICT CS120-30A/IC08 | 110V power supply and cabinet for control station use for F9511HT | \$700.00 |
| ICT IC06 220V | 220V power supply & cabinet for control station use on P25 radios | \$255.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| RedHawk | | |
| IAS BC-RHADPTR | 100-240V charger adapter for use with the IAS OPC-RHUSB | \$70.00 |
| IAS BC-RHCHG1 | 100-240V single unit charger for RedHawk mic | \$105.00 |
| IAS BC-RHCHG12 | 100-240V 12 unit charger for the RedHawk mics | \$1,000.00 |
| IAS BP-RHBATT1 | 3.8V 1200mAh battery for RedHawk mic | \$45.00 |
| IAS CP-RHLP | 12-24V cigarette lighter plug requiring 2 USB cables | \$60.00 |
| IAS CS-RHSW | Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed. | \$120.00 |
| IAS OPC-RHI1D | RedHawk cable connects GPS mic to P25 mobile radios (works in both analog and P25 digital). May require AFO mod on radio. | \$225.00 |
| IAS OPC-RHUSB | USB cable to connect mic with PC or charger adapter. One comes with each microphone. | \$30.00 |
| IAS REDHAWK | Speaker microphone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required. | \$584.00 |
| Remote Mounting | | |
| IA-DH1095 | Remote mounting kit for the F9511/F9521 dual head kit. Dual head, external speaker, speaker microphone, and separation cables are required. | \$1,015.00 |
| OPC607 | 3m/9.8ft separation cable for remote mounting kits | \$57.00 |
| OPC608 | 8m/26.2ft separation cable for remote mounting kits | \$76.00 |
| OPC609 | 1.9m/6.2ft separation cable for remote mounting kits | \$55.00 |
| OPC726 | 5m/16.4ft separation cable for remote mounting kits | \$65.00 |
| RMK2 | F1721/1821 bracket & face plate for remote mounting. Separation cable not included | \$145.00 |
| RMK4 01 | Dual head and separation kit for F9511HT. Requires external speaker and cable. | \$860.00 |
| Software & Cables | | |
| CSF9010/F9510 | F9011/9511 programming software | \$72.00 |
| CSRMK4 | Programming software for the RMK4 | \$80.00 |
| OPC1122U | PC to mobile radio programming cloning cable with USB connector. | \$99.00 |
| OPC1534 | Key Loader cable for P25 radio to KVL3000/4000. For portables: requires OPC-1871, RJ45 female to RJ45 female & 8920001690. For mobiles: requires RJ45 female to RJ45 female & 8920001690. | \$225.00 |
| OPC1871 | Radio to radio cloning cable between 14-pin connector portable & mobile radio; used in conjunction with the OPC1534 for encryption key loading on the F7010 portable series | \$110.00 |

Accessories

| Model | Description | MSRP |
|------------------------|--------------------------------------------------------------------------------------|----------|
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$0.00 |
| <i>Trunking</i> | | |
| ISL-3 | P25 trunking upgrade for the F9011/9511 series radios | \$500.00 |

F7510 – F7520 – F7540 Series

P25 Conventional & Analog Mobiles

SPECS

| | |
|--------------------|------------------------------|
| Frequencies: | 136-174, 380-470, 450-512MHz |
| Output Power: | 50W (VHF); 45W (UHF) |
| Channels: | 1024 w/128 zones |
| Display: | High resolution color LCD |
| Programmable Keys: | 7 |
| Mil Spec: | C, D, E, F & G |
| Waterproof Rating: | IP55 |
| Weight: | 3.3lb |



FEATURES

General Features:

- GPS built-in
- Bluetooth™ built-in
- Intuitive user interface
- Digital voice recorder – record up to 500 hours with 32GB microSD card
- Safety features: emergency key, lone worker function, and power OFF emergency
- Day and night mode display settings
- D-Sub 25-pin ACC connector

P25 Digital Features:

- P25 conventional
- P25 Phase 1 trunking option
- P25 Phase 2 trunking option
- P25 vote scan option
- Analog/digital mixed operation
- Individual, group call
- Unit ID and talkgroup display on receive
- Status call and polling
- Short data message (up to 100 characters)
- Page call
- Phone number list
- Call log

COMES WITH

Hand microphone (HM-220)
Mounting bracket kit
DC power cable
Microphone anger
Owner's manual
Warranty: 3 years

ENCRYPTION

AES/DES: UT-134 + license key
FIPS AES: UT-125 FIPS-2 + license key

SIGNALING

2-tone, CTCSS, DTCS tone
MDC functions
DTMF autodial



Configurations

| Model | Description | MSRP |
|----------|-------------------------------------------------------|------------|
| F7510 | 136-174MHz P25 conventional mobile with color display | \$1,720.00 |
| F7520 11 | 380-470MHz P25 conventional mobile with color display | \$1,720.00 |
| F7520 21 | 450-512MHz P25 conventional mobile with color display | \$1,720.00 |
| F7540 | 700/800MHz P25 conventional mobile with color display | \$1,720.00 |

Accessories

| Model | Description | MSRP |
|------------|----------------------------------------------------------|----------|
| ENGRAVE | Engrave radio | \$0.00 |
| EXTWARR811 | 1 year extended warranty | \$65.00 |
| EXTWARR812 | 2 year extended warranty | \$93.00 |
| EXTWARR813 | 3 year extended warranty | \$130.00 |
| ISL-P25W | Enable 25kHz in the F7010/F7510 radios | \$5.00 |
| QCRRS09 | 3 year comprehensive radio repair service for P25 radios | \$0.00 |

Antennas

| | | |
|-------|-------------|---------|
| UX241 | GPS antenna | \$55.00 |
|-------|-------------|---------|

Cables

| | | |
|-----------|------------------------------------------------|---------|
| IAOPC1003 | USB to micro-USB 3ft cable | \$12.00 |
| OPC1132 | DC power cable (9.8ft) with 2-pin T connector. | \$45.00 |
| OPC347 | DC power cable (23ft) | \$70.00 |

Encryption & Internal Modules

| | | |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------|
| IAOPC1075 | F7500 mobile adapter cable to use with Motorola KVL3000/4000/5000 keyloaders. Requires the OPC1534 cable and a RJ45 female-to-female adapter. | \$150.00 |
| IAOPC1076 | F7500 mobile adapter cable to use with the KVL125 keyloader. Requires the OPC-IAKVL1 cable and a RJ45 female-to-female adapter. | \$200.00 |
| INSTALL-MF | Install a component into an LM mobile or portable | \$0.00 |
| ISL-P25AES | AES activation key enables AES in radio (requires UT134 or UT125 FIPS-2) | \$360.00 |
| KA KVL125 | KVL unit powered by 9-volt battery | \$3,185.00 |
| UT125 FIPS-2 | FIPS 140-2 encryption board; requires ISL-P25AES license key to activate AES | \$830.00 |
| UT134 | AES/DES encryption board; requires ISL code to activate AES | \$185.00 |

Accessories

| Model | Description | MSRP |
|--------------------------|-------------------------------------------------------------------------------------------------------------|----------|
| External Speakers | | |
| SP30 | 20W large external speaker | \$110.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| Headsets | | |
| VS3 | Compact clippable PTT Bluetooth with earphone via 3.5mm jack for all-day operation | \$149.00 |
| Licenses | | |
| ISL-P25DS | P25 packet data service (GPS/text) license | \$175.00 |
| ISL-P25FP | Front panel programming | \$330.00 |
| ISL-P25VS | P25 conventional voting scan license | \$120.00 |
| Microphones | | |
| HM220 | Heavy duty microphone (IP54) for the F5400 series | \$100.00 |
| HM220T | Heavy duty microphone with DTMF keypad (IP54) for the F5400 series | \$160.00 |
| HM221 | Microphone (IP55) for the F5400 series | \$100.00 |
| HM221T | Microphone with DTMF keypad (IP55) for the F5400 series | \$160.00 |
| SM29 | Desktop microphone for F5400 series | \$175.00 |
| Power Supplies | | |
| CONTROL STATION ASSEMBLE | Install mobile into power supply and cabinet to make control station | \$0.00 |
| Remote Mounting | | |
| HM218 | Secondary remote control microphone, COMMANDMIC, for the F5400D/F6400D. Requires RMK5 + OPC2373 or OPC2374. | \$500.00 |
| OPC2364 | 1.9m/6.2ft separation cable for RMK5/RMK7 | \$60.00 |
| OPC2365 | 3m/9.8ft separation cable for RMK5/RMK7 | \$63.00 |
| OPC2366 | 5m/16.4ft separation cable for RMK5/RMK7 | \$67.00 |
| OPC2367 | 8m/26.2ft separation cable for RMK5/RMK7 | \$80.00 |
| OPC2373 | 1.9m/6.2ft separation cable for HM218 | \$62.00 |
| OPC2374 | 8m/26.2ft separation cable for HM218 | \$95.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| RMK5 | Bracket & face plate for remote mounting for the F5400D/F6400D. Separation cable not included. | \$215.00 |
| RMK7 | Dual head and separation kit for the F5400D/F6400D. Separation cables & microphone not included. | \$650.00 |
| Software & Cables | | |
| CSF7510 | Programming software for the F7010 & F7510 P25 radios | \$100.00 |
| CSOTPM2 | P25 over-the-air programming (OTAP) manager software; support only conventional mode | \$800.00 |
| IASKF7P | System Owner Master Key (SOMK); USB Dongle and CS-F7500ASK "P25 Advanced System Key (ASK) Manager Application" Note: Available only to P25 trunking system owners and requires the completion of the "P25 System Key Request Form" by the P25 Trunking System Owner | \$500.00 |
| IASKF7S | Accessory Advanced System Key (AASK) USB dongle required for programming P25 trunking parameters. Note: shipped unprogrammed; requires P25 trunking system owner to program | \$225.00 |
| OPC1534 | Key Loader cable for P25 radio to KVL3000/4000. For portables: requires OPC-1871, RJ45 female to RJ45 female & 8920001690. For mobiles: requires RJ45 female to RJ45 female & 8920001690. | \$225.00 |
| OPC2362 | Handheld to mobile zone copy cable (14-pin to 10-pin DIM) | \$100.00 |
| OPC2363 | 10-pin DIM programming cable | \$110.00 |
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$0.00 |
| Trunking | | |
| ISL-P25P2 | P25 Phase 2 trunking license (Phase 1 license required) | \$420.00 |
| ISL-P25TR | P25 Phase 1 trunking license | \$500.00 |

Data Radio, HF & RoIP Solutions



F5122DD – F6122DD Series

VHF and UHF Data Transceivers

SPECS

| | |
|------------------|-----------------------------|
| Frequencies: | 136-174, 400-470MHz |
| Output Power: | 25W, 10W, 2.5W (Hi, L2, L1) |
| Channels: | 128 |
| Channel Spacing: | 12.5 / 6.25kHz |
| Mil Spec: | 810 C, D, E & F |
| Weight (approx): | 2.0lb |



FEATURES

General Features:

- 9600bps (at 12.5kHz) and 4800bps (at 6.25kHz) data mode programmable
- RS-232 and RS-232 + Ethernet versions
- Fast data transfer using 4-level FSK modulation suitable for real-time data monitoring
- BNC antenna connector
- Individual, group and all calls
- Data encryption function (500 codes)

COMES WITH

DC power cable
Mounting bracket kit
Warranty: 2 years



Configurations

| Model | Description | MSRP |
|------------|-------------------------------------------------------|----------|
| F5122DD 02 | 136-174MHz data transceiver, 9.6k/4.8kbps, 25W, RS232 | \$750.00 |
| F5122DD 12 | 136-174MHz, 9.6k/4.8kbps, 25W, RS232 + ethernet | \$800.00 |
| F6122DD 12 | 400-470MHz, 9.6k/4.8kbps, 25W, RS232 + ethernet | \$800.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|------------------------------------------------------------------|---------|
| EXTWARR211 | 1 year extended warranty for a total 3 years | \$25.00 |
| EXTWARR212 | 2 year extended warranty for a total 4 years | \$44.00 |
| EXTWARR213 | 3 year extended warranty for a total 5 years | \$62.00 |
| Cables | | |
| OPC1132 | DC power cable (9.8ft) with 2-pin T connector. | \$45.00 |
| OPC347 | DC power cable (23ft) | \$70.00 |
| Software & Cables | | |
| CSF5122DD | F5122DD/6122DD programming software | \$80.00 |
| OPC2218LU | Cloning/data cable with USB connector for ID51A/ID31A/5100A/7100 | \$75.00 |

F8101

HF Transceiver

SPECS

| | |
|---------------------|---------------------------------------------------|
| Frequencies: | Receive 0.5-29.9999MHz Transmit 1.6-29.9999MHz |
| Number of Channels: | 500 channels |
| Type of Emission: | J3E, A3E, A1A, F1B, J2B |
| Output Power: | 125W |
| Mil Spec: | MIL 810 C, D, E, F, G |
| Dimensions: | 6.85x2.44x10.2 in (Controller attached) |
| Weight: | 8.6lb (Controller attached type) |



FEATURES

- ALE (Automatic Link Establishment)
- Selective calling
- Compact and durable
- BITE (Built-in Test Equipment) function
- User friendly operation
- Clear talk function
- Mute functions
- Digital Signal Processor (DSP)
- GPS receiver connection
- Data communications
- USB Port for PC connection

COMES WITH

- RF unit with controller head
- Microphone (HM-193)
- Microphone hanger kit
- External speaker (SP-35L)
- DC power cable
- Spare fuses
- Owner's manual
- Warranty: 2 years



IP54
DUST PROTECTION
& SPLASH PROOF

Configurations

| Model | Description | MSRP |
|----------|-------------------------------------------------------------|------------|
| F8101 33 | HF 125W transceiver with ALE (automatic link establishment) | \$3,750.00 |

Accessories

| Model | Description | MSRP |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------|
| EXTWARR912 | 1 year extended warranty | \$125.00 |
| EXTWARR913 | 2 year extended warranty | \$160.00 |
| EXTWARR914 | 3 year extended warranty | \$245.00 |
| Antenna Tuners | | |
| AT140 | HF automatic antenna tuner | \$710.00 |
| MN100L | Antenna matcher. Matches the transceiver to a long wire antenna. Covers all HF bands from 1.5 to 30mhz. One 15m antenna comes standard. | \$455.00 |
| Antennas | | |
| AH740 | Relay-driven compact automatic tuning antenna 2.5MHz-29.999MHz | \$2,315.00 |
| Cables | | |
| OPC2308 | GPS/External modem connection cable | \$175.00 |
| OPC2309 | Antenna tuner control cable for AT140/AH740 for F8101 (10M or 32.8ft) | \$170.00 |
| External Speakers | | |
| SP30 | 20W large external speaker | \$110.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| GPS | | |
| UX248 | GPS unit | \$325.00 |
| Microphones | | |
| HM192 | Remote control microphone for F8101 (requires separation cable) | \$640.00 |
| HM193 | Hand microphone for the F8101 | \$85.00 |
| Miscellaneous | | |
| CFUF8100 | Cooling fan unit | \$440.00 |

Accessories

| Model | Description | MSRP |
|-------------------------------------|--------------------------------------------------------------------------------------|----------|
| <i>Mounting Hardware</i> | | |
| MB126 | Mounting bracket for F8101 | \$300.00 |
| <i>Remote Mounting</i> | | |
| OPC607 | 3m/9.8ft separation cable for remote mounting kits | \$57.00 |
| OPC608 | 8m/26.2ft separation cable for remote mounting kits | \$76.00 |
| OPC609 | 1.9m/6.2ft separation cable for remote mounting kits | \$55.00 |
| OPC726 | 5m/16.4ft separation cable for remote mounting kits | \$65.00 |
| RMK6 | Remote mount kit for the F8101. Separation cable sold separately. | \$360.00 |
| <i>Software & Cables</i> | | |
| CSF8101 | Programming software. Use a generic USB "A" to "B" cable to program radio. | \$80.00 |
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$0.00 |

Icom America Systems



X-BAND REPEATER

Cross Band VHF & UHF

SPECS

| | |
|----------------------|---------------------------------------|
| Frequencies: | 136-174, 400-470MHz or AV frequencies |
| Output Power: | 50W (VHF), 45W (UHF) |
| Channels: | 128 channels, 8 zones |
| Channel Spacing: | 12.5kHz |
| PLL Channel Spacing: | 2.5, 3.125kHz |
| Display: | LCD with 8 character alphanumeric |



FEATURES

Full UHF & VHF analog interoperability
Configured to auto switch from AC to DC
Local controlled operation, can be used as a dual base unit
Programmable actions when a matched tone is received:

- Bell icon indication ON / OFF / Blink
- Answer back calls
- Beep sounds
- Scan Start / Stop
- Auto transmission
- Stun / Kill functions (prevents use of a lost or stolen)

10 scanning lists and Normal / Priority scan
Power ON password

SIGNALING

CTCSS/DTCS decode
2/5 Tone
MDC1200

WARRANTY

Radios: 2 years
Parts: 1 year

Configurations

| Model | Description | MSRP |
|---------------------|-----------------------------------------|------------|
| IAS X-BAND 50 | VHF FM & UHF FM cross band repeater | \$2,700.00 |
| IAS X-BAND 50 AIR U | Airband AM & UHF FM cross band repeater | \$3,495.00 |
| IAS X-BAND 50 AIR V | Airband AM & VHF FM cross band repeater | \$3,495.00 |
| IAS X-BAND 50 UU | UHF FM & UHF FM cross band repeater | \$2,700.00 |
| IAS X-BAND 50 VV | VHF FM & VHF FM cross band repeater | \$2,700.00 |

Accessories

| Model | Description | MSRP |
|--------------------|----------------------------------------------------------------------------------------------------------------|------------|
| EXTWARRPT1 | 1 year extended warranty for a total 3 years | \$180.00 |
| EXTWARRPT2 | 2 year extended warranty for a total 4 years | \$325.00 |
| EXTWARRPT3 | 3 year extended warranty for a total 5 years | \$465.00 |
| Cabinets | | |
| IASMNT1030 | 30" (17RU) locking indoor cabinet | \$1,165.00 |
| IASMNT1046 | 46" (26RU) locking indoor cabinet | \$2,280.00 |
| IASMNT1060 | 60" (34RU) locking indoor cabinet | \$3,190.00 |
| Microphones | | |
| HM152 | Standard microphone for low/mid range mobile radios | \$44.00 |
| HM152T | DTMF modular microphone for LM mobile radios | \$90.00 |
| HM216 | Standard microphone for A120 | \$47.00 |
| HM217 | Microphone with built-in speaker and front panel includes up/down buttons and two programmable buttons (P1/P2) | \$100.00 |
| SM26 | Desktop microphone with monitor switch for mobile radios | \$90.00 |
| Racks | | |
| IASMNT1028 | 28x19, 16U desktop 2-post rack; 350lb weight capacity | \$395.00 |
| IASMNT1042 | 42x19 welded steel 2-post rack; 24U, 1,500lb weight capacity | \$750.00 |
| IASMNT1063 | 63x19 welded steel 2-post rack; 63U, 1,500lb weight capacity | \$995.00 |
| IASMNT1070 | 70x19 welded steel 2-post rack; 40U, 1,500lb weight capacity | \$1,025.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|------------------------------------------------------------------|---------|
| Software & Cables | | |
| CSF3021/F5021/F5011 | F3021/5021/5011 series programming software | \$72.00 |
| OPC1122U | PC to mobile radio programming cloning cable with USB connector. | \$99.00 |
| PROG-IAS | Icom to program your system products | \$0.00 |

CY5000 – CY6000 Repeaters

All In One IDAS™ Digital & Analog Repeater

SPECS

| | |
|------------------|-------------------------------------------------------------------------------------------------------------------|
| Frequencies: | 136-174, 400-470, 450-512MHz |
| Output Power: | 50W at 50% duty cycle 25W at 100% duty cycle |
| Channels: | 32 |
| Channel Spacing: | 6.25 (digital) / 12.5kHz |
| Height: | 3 RU |
| Versions: | Repeater only Repeater With Duplexer Repeater With Pre-Selector Repeater With Duplexer & Pre-Selector |



SPECS & FEATURES

Built-in power supply: 13.8V in or 110V AC in or 220V AC in
Built-in battery backup & charging capable
Built-in heavy duty A/C EMI filtering
3 RU tall - built-in rack handles
19" standard rack or cabinet mounting
Powder-coated steel chassis N style bulkhead connectors built-in grounding stud
Max air cross flow: 80 CFM for excellent ventilation
DB-25 rear connector interface for external equipment
DC terminal strip for easy BBU connection
3 ethernet connections for IP / remote management / trunking
Digital Features:

- IDAS Trunking-single or multisite (UC-FR5000 & CFFR5000)
- Receives analog and digital signals on a single channel
- NXDN® Digital Air Interface
- Strongest site search
- Firmware upgrade over IP
- Configuration over IP

SIGNALING

Digital RAN Code decode
5-tone & DTMF Encode/Decode (analog)
CTCSS

ENCRYPTION

Simple Inversion: UT-109R 32 Codes
Rolling Code: UT-110R 1020 Codes
IDAS digital mode, 15-bit encryption key provides over
32K codes

WARRANTY

1-Year

MULTITRUNK

IDAS
ICOM DIGITAL ADVANCED SYSTEM

Configurations

| Model | Description | MSRP |
|--------|-----------------------------------------------------------|------------|
| CY5000 | 136-174MHz IDAS analog/digital repeater with power supply | \$2,625.00 |
| CY6001 | 400-470MHz IDAS analog/digital repeater with power supply | \$2,625.00 |
| CY6002 | 450-512MHz IDAS analog/digital repeater with power supply | \$2,625.00 |

Accessories

| Model | Description | MSRP |
|-------------|---------------------------------------------------------------|----------|
| EXTWARRPT1 | 1 year extended warranty for a total 3 years | \$180.00 |
| EXTWARRPT2 | 2 year extended warranty for a total 4 years | \$325.00 |
| EXTWARRPT3 | 3 year extended warranty for a total 5 years | \$465.00 |
| INSTALL-IAS | Install a component into a repeater or an item into a cabinet | \$0.00 |

Cabinets

| | | |
|------------|-----------------------------------|------------|
| IASMNT1030 | 30" (17RU) locking indoor cabinet | \$1,165.00 |
| IASMNT1046 | 46" (26RU) locking indoor cabinet | \$2,280.00 |
| IASMNT1060 | 60" (34RU) locking indoor cabinet | \$3,190.00 |

Duplexers

| | | |
|------------|-----------------------------------------------------------------------|------------|
| IASDUP1001 | 136-148 6 cavity 50W internal duplexer, 3MHz TX-RX separation | \$525.00 |
| IASDUP1002 | 148-160 6 cavity 50W internal duplexer, 3MHz TX-RX separation | \$525.00 |
| IASDUP1003 | 160-174 6 cavity 50W internal duplexer, 3MHz TX-RX separation | \$525.00 |
| IASDUP1004 | 136-148 6 cavity 50W internal duplexer, 5MHz TX-RX separation | \$525.00 |
| IASDUP1005 | 148-160 6 cavity 50W internal duplexer, 5MHz TX-RX separation | \$525.00 |
| IASDUP1006 | 160-174 6 cavity 50W internal duplexer, 5MHz TX-RX separation | \$525.00 |
| IASDUP1007 | 136-148 6 cavity 50W internal duplexer, 10MHz TX-RX separation | \$525.00 |
| IASDUP1008 | 148-160 6 cavity 50W internal duplexer, 10MHz TX-RX separation | \$525.00 |
| IASDUP1009 | 160-174 6 cavity 50W internal duplexer, 10MHz TX-RX separation | \$525.00 |
| IASDUP1010 | 144-190MHz 6 cavity 100W duplexer with 3MHz minimum TX-RX separation | \$2,030.00 |
| IASDUP1012 | 144-174MHz 6 cavity, 350W duplexer, 400kHz TX-RX separation; 32" tall | \$4,400.00 |
| IASDUP1015 | 152-175MHz 50W internal duplexer (6-15MHz minimum separation) | \$510.00 |
| IASDUP1035 | 400-512 4 cavity 100W duplexer, 3MHz TX-RX separation | \$1,895.00 |
| IASDUP1036 | 400-440 6 cavity 50W internal duplexer, 5MHz TX-RX separation | \$525.00 |

Accessories

| Model | Description | MSRP |
|-----------------------------|-------------------------------------------------------------------------------------------------------|------------|
| IASDUP1037 | 440-470 6 cavity 50W internal duplexer, 5MHz TX-RX separation | \$525.00 |
| IASDUP1038 | 470-490 6 cavity 50W internal duplexer, 5MHz TX-RX separation | \$525.00 |
| IASDUP1039 | 490-512 6 cavity 50W internal duplexer, 5MHz TX-RX separation | \$525.00 |
| IASDUP1040 | 400-440 6 cavity 50W internal duplexer, 10MHz TX-RX separation | \$525.00 |
| IASDUP1041 | 440-470 6 cavity 50W internal duplexer, 10MHz TX-RX separation | \$525.00 |
| IASDUP1042 | 470-490 6 cavity 50W internal duplexer, 10MHz TX-RX separation | \$525.00 |
| IASDUP1043 | 490-512 6 cavity 50W internal duplexer, 10MHz TX-RX separation | \$525.00 |
| IASDUP1044 | 440-512 6 cavity 100W duplexer with 3MHz minimum TX-RX separation | \$2,050.00 |
| IASDUP50CY | CY5000/6000 internal duplexer assembly kit including RF jumpers and screws | \$28.61 |
| IP Linking | | |
| CFFR5000 02 | Multi-site (conventional only) IP repeater link card (requires UC-FR5000 board) | \$65.00 |
| CFFR5000MT | Multi-site (conventional & trunking) IP repeater link card (requires UC-FR5000 board) | \$1,375.00 |
| Manuals | | |
| 94415355 | FR6000 CD service manual | \$0.00 |
| 94415514 | FR5000 CD service manual | \$28.97 |
| 97715348 | FR6000 service manual - hardcopy | \$0.00 |
| 97715370 | FR5000 service manual - hardcopy | \$38.29 |
| 98815350 | FR5000/6000 owner's manual | \$8.17 |
| Mounting hardware | | |
| IASMNT1005 | Internal universal accessory mounting plate - use to mount duplexers/pre-selectors into FR5000/FR6000 | \$36.00 |
| Pilot Tone Generator | | |
| JPSPTG10 | Pilot tone generator for analog operation only (requires universal mounting plate for installation) | \$1,165.00 |
| Power Amplifiers | | |
| IASE2PA351 | 375-400MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply | \$3,800.00 |
| IASE2PA352 | 375-400MHz 100W 2RU additional power amplifier (fits next to IASE2PA351 in chassis) | \$3,400.00 |
| IASE2PA505 | 400-430MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply | \$3,800.00 |

Accessories

| Model | Description | MSRP |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------|------------|
| IASE2PA506 | 440-470MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply | \$3,800.00 |
| IASE2PA507 | 470-490MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply | \$3,800.00 |
| IASE2PA508 | 480-520MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply | \$3,800.00 |
| IASE2PA509 | 400-430MHz 100W 2RU additional power amplifier (fits next to IASE2PA505 in chassis) | \$3,400.00 |
| IASE2PA510 | 440-470MHz 100W 2RU additional power amplifier (fits next to IASE2PA506 in chassis) | \$3,400.00 |
| IASE2PA511 | 470-490MHz 100W 2RU additional power amplifier (fits next to IASE2PA507 in chassis) | \$3,400.00 |
| IASE2PA512 | 480-520MHz 100W 2RU additional power amplifier (fits next to IASE2PA508 in chassis) | \$3,400.00 |
| IASPA510 | 144-154MHz 100W out, 2-5W in, 4RU power amplifier; 19" rack mountable | \$2,400.00 |
| IASPA520 | 152-162MHz 100W out, 2-5W in, 4RU power amplifier; 19" rack mountable | \$2,400.00 |
| Power Equipment & Rack Mounting | | |
| IASDP1001 | DC distribution panel 12/24VDC with remote power control and SNMP. It can manage up to 12 loads. | \$1,825.00 |
| IASIV1300 | Site inverter 300W 12/24VDC; 1RU 19" rack mountable | \$675.00 |
| IASMNT1105 | Battery charger rackmount kit holds 1 to 2 chargers | \$165.00 |
| Pre-Selectors | | |
| IASPR1001 | 136-150MHz 4 cavity pre-selector (assembly kit required with FR5000) | \$700.00 |
| IASPR1002 | 150-174MHz 4 cavity pre-selector (assembly kit required with FR5000) | \$700.00 |
| IASPR1010 | 400-440MHz 4 cavity pre-selector (assembly kit required with FR6000) | \$700.00 |
| IASPR1011 | 440-520MHz 4 cavity pre-selector (assembly kit required with FR6000) | \$700.00 |
| Racks | | |
| IASMNT1028 | 28x19, 16U desktop 2-post rack; 350lb weight capacity | \$395.00 |
| IASMNT1042 | 42x19 welded steel 2-post rack; 24U, 1,500lb weight capacity | \$750.00 |
| IASMNT1063 | 63x19 welded steel 2-post rack; 63U, 1,500lb weight capacity | \$995.00 |
| IASMNT1070 | 70x19 welded steel 2-post rack; 40U, 1,500lb weight capacity | \$1,025.00 |
| Remote Communication | | |
| CT23 01 | PTT microphone adapter to use SM-26 or HM-152 with a PC. Requires BC-147S. | \$120.00 |
| CT24 | Digital voice converter (supplied with RCFS10 and works with VEPG3) | \$1,200.00 |
| RCFS10 | Remote Communicator software + CT-24 (digital voice converter unit - each IDAS system requires 1 CT-24) | \$1,820.00 |

Accessories

| Model | Description | MSRP |
|------------------------------------|------------------------------------------------------------------|------------|
| Software & Cables | | |
| CSFR5000 | FR5000/6000 programming software | \$72.00 |
| IASTUN1001 | Icom to tune your system products | \$0.00 |
| OPC1122U | PC to mobile radio programming cloning cable with USB connector. | \$99.00 |
| PROG-IAS | Icom to program your system products | \$0.00 |
| RSMGR1 | Remote system manager software for IDAS MultiTrunk | \$4,995.00 |
| Trunking/Network Controller | | |
| UCFR5000 01 | Trunking/Network controller board (1 per repeater) | \$500.00 |

FR5000 - FR6000 Series

IDAS Digital & Analog Repeater

SPECS

| | |
|-----------------------|------------------------------------------------------------------------------|
| Frequencies: | 136-174, 400-470, 450-512MHz |
| Output Power: | 50W at 50% duty cycle 25W at 100% duty cycle |
| Channels: | 32 |
| Channel Spacing: | 6.25 (digital) / 12.5kHz |
| LCD Display: | 16-digit dot matrix |
| Programmable buttons: | 5 |
| Mil Spec: | 810 C, D, E, F |
| Scan: | Normal & priority |
| Size: | 19-inch rack mount, 2U height |
| Weight: | 12.3 lb (approx) |
| Versions: | FR repeater UR repeater module FR/UR kit (FR + UR) Two channel kits |



FEATURES

General Features

- CW ID included
- Automatic battery backup
- DB-25 accessory connector
- Built-In community tone panel
- Internal space for duplexer & pre-selector
- Master/Slave backup operation
- Password Kill/Stun security function
- Temperature alert
- Fits 2 RF modules in 2 unit
- PTT priority setting
- Low voltage alert (analog)

Digital Features:

- IDAS Trunking-single or multisite (UC-FR5000 & CFFR5000)
- Receives analog and digital signals on a single channel
- NXDN® Digital Air Interface
- Strongest site search
- Firmware upgrade over IP
- Configuration over IP

SIGNALING

Digital RAN Code decode
5-tone & DTMF Encode/Decode (analog)
CTCSS, DTCS tone

ENCRYPTION

Simple Inversion: UT-109R 32 Codes (analog)
Rolling Code: UT-110R 1020 Codes (analog)
IDAS digital mode, 15-bit encryption key provides over
32K codes

WARRANTY

2-Year

Internal and external duplexers and pre-selectors available for the FR5000/FR6000

External duplexers available for the FR/UR kits and Two channel kits

MULTITRUNK

IDAS
ICOM DIGITAL ADVANCED SYSTEM

Configurations

| Model | Description | MSRP |
|-------------------|-----------------------------------------------------------------------------------|------------|
| FR5000 14 | 136-174MHz analog/digital IDAS repeater (power supply not included) | \$2,165.00 |
| FR5000 01 2CH KIT | 136-174MHz 2 channel conventional system (2 repeaters, 2 external power supplies) | \$3,130.00 |
| FR5000 01 UR KIT | 136-174MHz, 2 channel analog/digital repeater (FR5000 + URFR5000 installed) | \$2,695.00 |
| FR6000 14 | 400-470MHz analog/digital IDAS repeater (power supply not included) | \$2,165.00 |
| FR6000 19 | 450-512MHz analog/digital IDAS repeater (power supply not included) | \$2,165.00 |
| FR6000 01 2CH KIT | 400-470MHz 2 channel conventional system (2 repeaters, 2 external power supplies) | \$3,130.00 |
| FR6000 11 2CH KIT | 450-512MHz 2 channel conventional system (2 repeaters, 2 external power supplies) | \$3,130.00 |
| FR6000 01 UR KIT | 400-470MHz, 2 channel analog/digital repeater (FR6000+URFR6000 installed) | \$2,695.00 |
| FR6000 11 UR KIT | 450-512MHz, 2 channel analog/digital repeater (FR6000 + URFR6000 installed) | \$2,695.00 |
| URFR5000 63 | 136-174MHz analog/digital repeater channel module | \$1,205.00 |
| URFR6000 63 | 400-470MHz repeater module | \$1,205.00 |
| URFR6000 67 | 450-512MHz repeater module | \$1,205.00 |

Accessories

| Model | Description | MSRP |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| EXTWARRPT1 | 1 year extended warranty for a total 3 years | \$180.00 |
| EXTWARRPT2 | 2 year extended warranty for a total 4 years | \$325.00 |
| EXTWARRPT3 | 3 year extended warranty for a total 5 years | \$465.00 |
| INSTALL-IAS | Install a component into a repeater or an item into a cabinet | \$0.00 |
| Antenna Switches | | |
| IASANTSW1 | Single antenna switch for base station operation | \$580.00 |
| IASANTSW2 | Dual antenna switch for base station operation | \$1,019.00 |
| Cabinets | | |
| IASMNT1030 | 30" (17RU) locking indoor cabinet | \$1,165.00 |
| IASMNT1046 | 46" (26RU) locking indoor cabinet | \$2,280.00 |
| IASMNT1060 | 60" (34RU) locking indoor cabinet | \$3,190.00 |
| Cables | | |
| OPC2274 | 5m audio connection cable between the VEPG3 and the FR5000 series (D-SUB 25-pin connector). For use only with systems that do not utilize tones or RAN's for squelching. | \$235.00 |

Accessories

| Model | Description | MSRP |
|------------------------------------------|-----------------------------------------------------------------------------------------------------|------------|
| OPC2390 | Cable connecting VEPG4 to FR5000/6000 | \$200.00 |
| Duplexers | | |
| IASDUP1001 | 136-148 6 cavity 50W internal duplexer, 3MHz TX-RX separation | \$525.00 |
| IASDUP1002 | 148-160 6 cavity 50W internal duplexer, 3MHz TX-RX separation | \$525.00 |
| IASDUP1003 | 160-174 6 cavity 50W internal duplexer, 3MHz TX-RX separation | \$525.00 |
| IASDUP1004 | 136-148 6 cavity 50W internal duplexer, 5MHz TX-RX separation | \$525.00 |
| IASDUP1005 | 148-160 6 cavity 50W internal duplexer, 5MHz TX-RX separation | \$525.00 |
| IASDUP1006 | 160-174 6 cavity 50W internal duplexer, 5MHz TX-RX separation | \$525.00 |
| IASDUP1007 | 136-148 6 cavity 50W internal duplexer, 10MHz TX-RX separation | \$525.00 |
| IASDUP1008 | 148-160 6 cavity 50W internal duplexer, 10MHz TX-RX separation | \$525.00 |
| IASDUP1009 | 160-174 6 cavity 50W internal duplexer, 10MHz TX-RX separation | \$525.00 |
| IASDUP1010 | 144-190MHz 6 cavity 100W duplexer with 3MHz minimum TX-RX separation | \$2,030.00 |
| IASDUP1012 | 144-174MHz 6 cavity, 350W duplexer, 400kHz TX-RX separation; 32" tall | \$4,400.00 |
| IASDUP1015 | 152-175MHz 50W internal duplexer (6-15MHz minimum separation) | \$510.00 |
| IASDUP1035 | 400-512 4 cavity 100W duplexer, 3MHz TX-RX separation | \$1,895.00 |
| IASDUP1036 | 400-440 6 cavity 50W internal duplexer, 5MHz TX-RX separation | \$525.00 |
| IASDUP1037 | 440-470 6 cavity 50W internal duplexer, 5MHz TX-RX separation | \$525.00 |
| IASDUP1038 | 470-490 6 cavity 50W internal duplexer, 5MHz TX-RX separation | \$525.00 |
| IASDUP1039 | 490-512 6 cavity 50W internal duplexer, 5MHz TX-RX separation | \$525.00 |
| IASDUP1040 | 400-440 6 cavity 50W internal duplexer, 10MHz TX-RX separation | \$525.00 |
| IASDUP1041 | 440-470 6 cavity 50W internal duplexer, 10MHz TX-RX separation | \$525.00 |
| IASDUP1042 | 470-490 6 cavity 50W internal duplexer, 10MHz TX-RX separation | \$525.00 |
| IASDUP1043 | 490-512 6 cavity 50W internal duplexer, 10MHz TX-RX separation | \$525.00 |
| IASDUP1044 | 440-512 6 cavity 100W duplexer with 3MHz minimum TX-RX separation | \$2,050.00 |
| IASDUP50FR | FR5000/6000 internal duplexer assembly kit including RF jumpers, mounting bracket and screws | \$100.30 |
| Encryption & Internal Modules | | |
| UT109R 21 | Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110. | \$105.00 |

Accessories

| Model | Description | MSRP |
|-----------------------------|--------------------------------------------------------------------------------------------------------|------------|
| UT110R 21 | Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. Works only in analog mode. | \$173.00 |
| External Speakers | | |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| IP Linking | | |
| CFFR5000 02 | Multi-site (conventional only) IP repeater link card (requires UC-FR5000 board) | \$65.00 |
| CFFR5000MT | Multi-site (conventional & trunking) IP repeater link card (requires UC-FR5000 board) | \$1,375.00 |
| Manuals | | |
| 94415355 | FR6000 CD service manual | \$16.95 |
| 94415514 | FR5000 CD service manual | \$28.97 |
| 97715348 | FR6000 service manual - hardcopy | \$150.99 |
| 97715370 | FR5000 service manual - hardcopy | \$38.29 |
| 98815350 | FR5000/6000 owner's manual | \$8.17 |
| Microphones | | |
| HM148G | Self grounding microphone for mobile radios | \$67.00 |
| HM148T | DMTF mobile microphone | \$110.00 |
| HM152 | Standard microphone for low/mid range mobile radios | \$44.00 |
| HM152T | DTMF modular microphone for LM mobile radios | \$90.00 |
| SM26 | Desktop microphone with monitor switch for mobile radios | \$90.00 |
| Mounting hardware | | |
| IASMNT1005 | Internal universal accessory mounting plate - use to mount duplexers/pre-selectors into FR5000/FR6000 | \$36.00 |
| Pilot Tone Generator | | |
| JPSPTG10 | Pilot tone generator for analog operation only (requires universal mounting plate for installation) | \$1,165.00 |
| Power Amplifiers | | |
| IASE2PA351 | 375-400MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply | \$3,800.00 |
| IASE2PA352 | 375-400MHz 100W 2RU additional power amplifier (fits next to IASE2PA351 in chassis) | \$3,400.00 |

Accessories

| Model | Description | MSRP |
|--------------------------------------------|--------------------------------------------------------------------------------------------------|------------|
| IASE2PA505 | 400-430MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply | \$3,800.00 |
| IASE2PA506 | 440-470MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply | \$3,800.00 |
| IASE2PA507 | 470-490MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply | \$3,800.00 |
| IASE2PA508 | 480-520MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply | \$3,800.00 |
| IASE2PA509 | 400-430MHz 100W 2RU additional power amplifier (fits next to IASE2PA505 in chassis) | \$3,400.00 |
| IASE2PA510 | 440-470MHz 100W 2RU additional power amplifier (fits next to IASE2PA506 in chassis) | \$3,400.00 |
| IASE2PA511 | 470-490MHz 100W 2RU additional power amplifier (fits next to IASE2PA507 in chassis) | \$3,400.00 |
| IASE2PA512 | 480-520MHz 100W 2RU additional power amplifier (fits next to IASE2PA508 in chassis) | \$3,400.00 |
| IASPA510 | 144-154MHz 100W out, 2-5W in, 4RU power amplifier; 19" rack mountable | \$2,400.00 |
| IASPA520 | 152-162MHz 100W out, 2-5W in, 4RU power amplifier; 19" rack mountable | \$2,400.00 |
| Power Equipment & Rack Mounting | | |
| IASDP1001 | DC distribution panel 12/24VDC with remote power control and SNMP. It can manage up to 12 loads. | \$1,825.00 |
| IASIV1300 | Site inverter 300W 12/24VDC; 1RU 19" rack mountable | \$675.00 |
| IASMNT1100 | 20A power supply rackmount kit; holds 1 or 2 power supplies | \$0.00 |
| IASMNT1105 | Battery charger rackmount kit holds 1 to 2 chargers | \$165.00 |
| IASPS1022 | 12v/30A power supply/battery charger - 1RU rack mountable with IASMNT1105 | \$0.00 |
| Pre-Selectors | | |
| IASPR1001 | 136-150MHz 4 cavity pre-selector (assembly kit required with FR5000) | \$700.00 |
| IASPR1002 | 150-174MHz 4 cavity pre-selector (assembly kit required with FR5000) | \$700.00 |
| IASPR1010 | 400-440MHz 4 cavity pre-selector (assembly kit required with FR6000) | \$700.00 |
| IASPR1011 | 440-520MHz 4 cavity pre-selector (assembly kit required with FR6000) | \$700.00 |
| IASPR50FR | FR5000/6000 internal pre-selector assembly kit including RF jumpers, mounting bracket and screws | \$0.00 |
| Racks | | |
| IASMNT1028 | 28x19, 16U desktop 2-post rack; 350lb weight capacity | \$395.00 |
| IASMNT1042 | 42x19 welded steel 2-post rack; 24U, 1,500lb weight capacity | \$750.00 |
| IASMNT1063 | 63x19 welded steel 2-post rack; 63U, 1,500lb weight capacity | \$995.00 |
| IASMNT1070 | 70x19 welded steel 2-post rack; 40U, 1,500lb weight capacity | \$1,025.00 |

Accessories

| Model | Description | MSRP |
|------------------------------------|---------------------------------------------------------------------------------------------------------|------------|
| Remote Communication | | |
| CT23 01 | PTT microphone adapter to use SM-26 or HM-152 with a PC. Requires BC-147S. | \$120.00 |
| CT24 | Digital voice converter (supplied with RCFS10 and works with VEPG3) | \$1,200.00 |
| RCFS10 | Remote Communicator software + CT-24 (digital voice converter unit - each IDAS system requires 1 CT-24) | \$1,820.00 |
| Repeaters | | |
| URFR6000 63 | 400-470MHz repeater module | \$1,205.00 |
| URFR6000 67 | 450-512MHz repeater module | \$1,205.00 |
| Software & Cables | | |
| CSFR5000 | FR5000/6000 programming software | \$72.00 |
| IASTUN1001 | Icom to tune your system products | \$0.00 |
| OPC1122U | PC to mobile radio programming cloning cable with USB connector. | \$99.00 |
| PROG-IAS | Icom to program your system products | \$0.00 |
| RSMGR1 | Remote system manager software for IDAS MultiTrunk | \$4,995.00 |
| Trunking/Network Controller | | |
| IAS CROSSBAND CONTROLLER | Analog gateway that provides an easy migration path from analog to digital technology | \$0.00 |
| UCFR5000 01 | Trunking/Network controller board (1 per repeater) | \$500.00 |

FR5200H - FR6200H Series

IDAS Digital & Analog 50W 100% Duty Cycle Repeater

SPECS

| | |
|-----------------------|-------------------------------|
| Frequencies: | 136-174, 400-470, 450-512MHz |
| Output Power: | 50W at 100% duty cycle |
| Channels: | 32 |
| Channel Spacing: | 6.25 (digital) / 12.5kHz |
| LCD Display: | 12-digit dot matrix |
| Programmable buttons: | 5 |
| Mil Spec: | 810 C, D, E, F, G |
| Scan: | Normal & priority |
| Size: | 19-inch rack mount, 2U height |
| Weight: | 22 lb (approx) |



FEATURES

General Features

- IDAS, analog FM and mixed mode
- CW ID included
- D-SUB 25-pin accessory connector
- Built-in inversion voice scrambler (Analog mode)
- Built-in audio compander (Analog mode)
- PTT priority setting (Local Mic., external PTT or repeater operation)
- Convenient key assign stickers supplied
- Beat cancel capability
- Low voltage alert (Analog mode)

Digital Features:

- IDAS Trunking-single or multisite (UC-FR5000 & CFFR5000)
- Receives analog and digital signals on a single channel
- NXDN® Digital Air Interface
- Strongest site search
- Firmware upgrade over IP
- Configuration over IP
- ± 0.5 ppm high frequency stability

SIGNALING

Digital RAN Code decode
5-tone & DTMF Encode/Decode (analog)
CTCSS, DTCS tone

ENCRYPTION

IDAS digital mode, 15-bit encryption key
provides over
32K codes

WARRANTY

2-Year

MULTITRUNK

IDAS
ICOM DIGITAL ADVANCED SYSTEM

Configurations

| Model | Description | MSRP |
|------------|------------------------------------------------------|------------|
| FR5200H 51 | 136-174MHz 50W analog, IDAS repeater 100% duty cycle | \$3,780.00 |
| FR6200H 51 | 400-470MHz 50W analog, IDAS repeater 100% duty cycle | \$3,780.00 |
| FR6200H 61 | 450-512MHz 50W analog, IDAS repeater 100% duty cycle | \$3,780.00 |

Accessories

| Model | Description | MSRP |
|--------------------------|---------------------------------------------------------------------------------------|------------|
| INSTALL-IAS | Install a component into a repeater or an item into a cabinet | \$0.00 |
| Antenna Switches | | |
| IASANTSW1 | Single antenna switch for base station operation | \$580.00 |
| IASANTSW2 | Dual antenna switch for base station operation | \$1,019.00 |
| Cabinets | | |
| IASMNT1030 | 30" (17RU) locking indoor cabinet | \$1,165.00 |
| IASMNT1046 | 46" (26RU) locking indoor cabinet | \$2,280.00 |
| IASMNT1060 | 60" (34RU) locking indoor cabinet | \$3,190.00 |
| Duplexers | | |
| IASDUP1010 | 144-190MHz 6 cavity 100W duplexer with 3MHz minimum TX-RX separation | \$2,030.00 |
| IASDUP1012 | 144-174MHz 6 cavity, 350W duplexer, 400kHz TX-RX separation; 32" tall | \$4,400.00 |
| IASDUP1035 | 400-512 4 cavity 100W duplexer, 3MHz TX-RX separation | \$1,895.00 |
| IASDUP1044 | 440-512 6 cavity 100W duplexer with 3MHz minimum TX-RX separation | \$2,050.00 |
| External Speakers | | |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| IP Linking | | |
| CFFR5000 02 | Multi-site (conventional only) IP repeater link card (requires UC-FR5000 board) | \$65.00 |
| CFFR5000MT | Multi-site (conventional & trunking) IP repeater link card (requires UC-FR5000 board) | \$1,375.00 |
| Microphones | | |
| HM152 | Standard microphone for low/mid range mobile radios | \$44.00 |
| SM26 | Desktop microphone with monitor switch for mobile radios | \$90.00 |

Accessories

| Model | Description | MSRP |
|--------------------------------------------|--------------------------------------------------------------------------------------------------|------------|
| Miscellaneous | | |
| 8930091120 | Repeater support bracket (FR9010 & FR5200H) | \$0.00 |
| Power Amplifiers | | |
| IAS2PA351 | 375-400MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply | \$3,800.00 |
| IAS2PA352 | 375-400MHz 100W 2RU additional power amplifier (fits next to IAS2PA351 in chassis) | \$3,400.00 |
| IAS2PA505 | 400-430MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply | \$3,800.00 |
| IAS2PA506 | 440-470MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply | \$3,800.00 |
| IAS2PA507 | 470-490MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply | \$3,800.00 |
| IAS2PA508 | 480-520MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply | \$3,800.00 |
| IAS2PA509 | 400-430MHz 100W 2RU additional power amplifier (fits next to IAS2PA505 in chassis) | \$3,400.00 |
| IAS2PA510 | 440-470MHz 100W 2RU additional power amplifier (fits next to IAS2PA506 in chassis) | \$3,400.00 |
| IAS2PA511 | 470-490MHz 100W 2RU additional power amplifier (fits next to IAS2PA507 in chassis) | \$3,400.00 |
| IAS2PA512 | 480-520MHz 100W 2RU additional power amplifier (fits next to IAS2PA508 in chassis) | \$3,400.00 |
| IASPA510 | 144-154MHz 100W out, 2-5W in, 4RU power amplifier; 19" rack mountable | \$2,400.00 |
| IASPA520 | 152-162MHz 100W out, 2-5W in, 4RU power amplifier; 19" rack mountable | \$2,400.00 |
| Power Equipment & Rack Mounting | | |
| IASDP1001 | DC distribution panel 12/24VDC with remote power control and SNMP. It can manage up to 12 loads. | \$1,825.00 |
| IASIV1300 | Site inverter 300W 12/24VDC; 1RU 19" rack mountable | \$675.00 |
| IASMNT1100 | 20A power supply rackmount kit; holds 1 or 2 power supplies | \$27.00 |
| IASMNT1105 | Battery charger rackmount kit holds 1 to 2 chargers | \$165.00 |
| IASPS1022 | 12v/30A power supply/battery charger - 1RU rack mountable with IASMNT1105 | \$830.00 |
| Racks | | |
| IASMNT1028 | 28x19, 16U desktop 2-post rack; 350lb weight capacity | \$395.00 |
| IASMNT1042 | 42x19 welded steel 2-post rack; 24U, 1,500lb weight capacity | \$750.00 |
| IASMNT1063 | 63x19 welded steel 2-post rack; 63U, 1,500lb weight capacity | \$995.00 |
| IASMNT1070 | 70x19 welded steel 2-post rack; 40U, 1,500lb weight capacity | \$1,025.00 |

Accessories

| Model | Description | MSRP |
|------------------------------------|--------------------------------------------------------------------------------------|------------|
| Software & Cables | | |
| CSFR5000 | FR5000/6000 programming software | \$72.00 |
| OPC1122U | PC to mobile radio programming cloning cable with USB connector. | \$99.00 |
| PROG-IAS | Icom to program your system products | \$0.00 |
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$0.00 |
| RSMGR1 | Remote system manager software for IDAS MultiTrunk | \$4,995.00 |
| Trunking/Network Controller | | |
| 96916626 | Installation kit to install UCFR5000 into FR5200H/FR6200H | \$62.27 |
| UCFR5000 01 | Trunking/Network controller board (1 per repeater) | \$500.00 |

FR9010 – FR9020 Series

110W Full Duty Cycle P25 Digital Repeater

SPECS

| | |
|------------------|---------------------------|
| Frequencies: | 146-174, 440-475MHz |
| Output Power: | 110W VHF 100W UHF |
| Channels: | 500 channels |
| Channel Spacing: | 12.5kHz |
| Display: | 5 color LEDs |
| Mil Spec: | 810 G |
| Size: | 18.98x3.46x16.26 in |
| Weight: | 11.0 kg; 24.3 lb (approx) |



FEATURES

P25 conventional, analog FM and mixed mode
500 memory channels capacity
P25 conventional base mode:

- Emergency
- Call alert
- Radio check
- Radio inhibit (Stun)
- Radio uninhibit (Revive)
- Status update
- Status request
- SBC log (Call log)
- OTAR (Over-the-Air-Rekeying)
- Individual, group and all calls

D-SUB 25-pin accessory connector
Programmable CTCSS, DTCS and NAC
CW ID transmission
High reliability, rugged construction
 ± 1.5 ppm frequency stability (Digital mode)
Low standby current (280mA)
P25 self-test mode and key test mode
Automatic error detection
5 color LEDs
2U low profile for rack mount

Comes With

DC power cable connector
2-Year warranty



Configurations

| Model | Description | MSRP |
|-----------|------------------------------|------------|
| FR9010 11 | 146-174MHz 110W P25 repeater | \$8,700.00 |
| FR9020 11 | 440-475MHz 100W P25 repeater | \$8,700.00 |

Accessories

| Model | Description | MSRP |
|-------------------------|-----------------------------------------------------------------------|------------|
| EXTWARRPT1 | 1 year extended warranty for a total 3 years | \$180.00 |
| EXTWARRPT2 | 2 year extended warranty for a total 4 years | \$325.00 |
| EXTWARRPT3 | 3 year extended warranty for a total 5 years | \$465.00 |
| Antenna Switches | | |
| IAS ANTRLY-D | 1RU dual antenna switch for FR9010/9020 | \$945.00 |
| IAS ANTRLY-S | 1RU single antenna switch for FR9010/9020 | \$500.00 |
| Cabinets | | |
| IASMNT1030 | 30" (17RU) locking indoor cabinet | \$1,165.00 |
| IASMNT1046 | 46" (26RU) locking indoor cabinet | \$2,280.00 |
| IASMNT1060 | 60" (34RU) locking indoor cabinet | \$3,190.00 |
| Duplexers | | |
| IASDUP1010 | 144-190MHz 6 cavity 100W duplexer with 3MHz minimum TX-RX separation | \$2,030.00 |
| IASDUP1012 | 144-174MHz 6 cavity, 350W duplexer, 400kHz TX-RX separation; 32" tall | \$4,400.00 |
| IASDUP1035 | 400-512 4 cavity 100W duplexer, 3MHz TX-RX separation | \$1,895.00 |
| Manuals | | |
| 94416670 | FR9010 Service manual - CD | \$28.97 |
| 94416673 | FR9020 Service manual - CD | \$28.97 |
| 97716669 | FR9010 Service manual - hardcopy | \$0.00 |
| 97716672 | FR9020 Service manual - hardcopy | \$0.00 |
| 98816671 | FR9010/9020 Owner's manual | \$0.00 |
| Microphones | | |
| HM-9000 | Speaker microphone for the FR9010/9020 repeaters | \$80.00 |

Accessories

| Model | Description | MSRP |
|--------------------------------------------|--------------------------------------------------------------------------------------------------|------------|
| Miscellaneous | | |
| 8930091120 | Repeater support bracket (FR9010 & FR5200H) | \$0.00 |
| Power Amplifiers | | |
| IAS2PA351 | 375-400MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply | \$3,800.00 |
| IAS2PA352 | 375-400MHz 100W 2RU additional power amplifier (fits next to IAS2PA351 in chassis) | \$3,400.00 |
| IAS2PA505 | 400-430MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply | \$3,800.00 |
| IAS2PA506 | 440-470MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply | \$3,800.00 |
| IAS2PA507 | 470-490MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply | \$3,800.00 |
| IAS2PA508 | 480-520MHz 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply | \$3,800.00 |
| IAS2PA509 | 400-430MHz 100W 2RU additional power amplifier (fits next to IAS2PA505 in chassis) | \$3,400.00 |
| IAS2PA510 | 440-470MHz 100W 2RU additional power amplifier (fits next to IAS2PA506 in chassis) | \$3,400.00 |
| IAS2PA511 | 470-490MHz 100W 2RU additional power amplifier (fits next to IAS2PA507 in chassis) | \$3,400.00 |
| IAS2PA512 | 480-520MHz 100W 2RU additional power amplifier (fits next to IAS2PA508 in chassis) | \$3,400.00 |
| IASPA510 | 144-154MHz 100W out, 2-5W in, 4RU power amplifier; 19" rack mountable | \$2,400.00 |
| IASPA520 | 152-162MHz 100W out, 2-5W in, 4RU power amplifier; 19" rack mountable | \$2,400.00 |
| Power Equipment & Rack Mounting | | |
| IASDP1001 | DC distribution panel 12/24VDC with remote power control and SNMP. It can manage up to 12 loads. | \$1,825.00 |
| IASIV1300 | Site inverter 300W 12/24VDC; 1RU 19" rack mountable | \$675.00 |
| IASMNT1105 | Battery charger rackmount kit holds 1 to 2 chargers | \$165.00 |
| IASPS1022 | 12v/30A power supply/battery charger - 1RU rack mountable with IASMNT1105 | \$830.00 |
| Racks | | |
| IASMNT1028 | 28x19, 16U desktop 2-post rack; 350lb weight capacity | \$395.00 |
| IASMNT1042 | 42x19 welded steel 2-post rack; 24U, 1,500lb weight capacity | \$750.00 |
| IASMNT1063 | 63x19 welded steel 2-post rack; 63U, 1,500lb weight capacity | \$995.00 |
| IASMNT1070 | 70x19 welded steel 2-post rack; 40U, 1,500lb weight capacity | \$1,025.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|-------------------------------------------------|----------|
| Software & Cables | | |
| CSFR9010 | Programming software for the FR9010/9020 | \$72.00 |
| OPC-9000 | Programming cable for the FR9010/9020 repeaters | \$270.00 |
| PROG-IAS | Icom to program your system products | \$0.00 |

RF Technologies – Eclipse2 Series

Software-Defined P25 Repeater / Analog Base Station

SPECS

Frequencies: 136-174MHz (VHF), 450-520MHz (UHF)
Output Power Adjustable: 0.5-5W
Channels: 256
Weight: 1.45Kg (Receiver & Exciter); 3.55Kg (Pwr Amp); 4.65Kg (PA 501); 2.6Kg (SMPS-12); 8.0Kg (PS-12); 4.55Kg (Mounting rack)



FEATURES

Auto sensing repeater (P25 / Analog) 100% duty cycle operation
Remote diagnostics via ethernet: alarm monitor & report
Battery backup – charging & auto switch over capable
Built-in 35 amp power supply: 240-120V AC operation
IP commander – ethernet programming with rollback feature
Modular design – space saving 4RU
Full duplex analog repeater base station
Firmware upgradeable to P25 via ethernet
IP firmware & software updating capable

SIGNALING

DTMF Encoded / Decode
Built-In 2-Tone, 5-Tone

COMES WITH

Owner's manual
Warranty: 1 year



Configurations

| Model | Description | MSRP |
|-----------------|-----------------------------------------------------------------------|-------------|
| RFT P25 400-430 | 100W P25/analog 400-430MHz repeater with a power supply | \$15,520.00 |
| RFT P25 440-490 | 100W P25/analog 440-490MHz repeater with a power supply | \$13,305.00 |
| RFT P25 485-520 | 100W P25/analog 485-520MHz repeater with a power supply | \$15,520.00 |
| RFT P25 136-174 | 2-120W P25/analog 136-174MHz repeater with a power supply | \$14,700.00 |
| RFT 400-430 | 100W analog 400-430MHz repeater with a power supply (P25 upgradeable) | \$10,395.00 |
| RFT 440-490 | 100W analog 440-490MHz repeater with a power supply (P25 upgradeable) | \$10,395.00 |
| RFT 485-520 | 100W P25/analog 485-520MHz repeater with a power supply | \$10,395.00 |
| RFT 136-174 | 100W analog 136-174MHz repeater with a power supply (P25 upgradeable) | \$11,780.00 |

Accessories

| Model | Description | MSRP |
|-------------------------|-----------------------------------------------------------------------|------------|
| Antenna Switches | | |
| IAS ANTRLY-D | 1RU dual antenna switch for FR9010/9020 | \$945.00 |
| IAS ANTRLY-S | 1RU single antenna switch for FR9010/9020 | \$500.00 |
| Cabinets | | |
| IASMNT1030 | 30" (17RU) locking indoor cabinet | \$1,165.00 |
| IASMNT1046 | 46" (26RU) locking indoor cabinet | \$2,280.00 |
| IASMNT1060 | 60" (34RU) locking indoor cabinet | \$3,190.00 |
| Duplexers | | |
| IASDUP1010 | 144-190MHz 6 cavity 100W duplexer with 3MHz minimum TX-RX separation | \$2,030.00 |
| IASDUP1012 | 144-174MHz 6 cavity, 350W duplexer, 400kHz TX-RX separation; 32" tall | \$4,400.00 |
| IASDUP1035 | 400-512 4 cavity 100W duplexer, 3MHz TX-RX separation | \$1,895.00 |
| IASDUP1044 | 440-512 6 cavity 100W duplexer with 3MHz minimum TX-RX separation | \$2,050.00 |
| Manuals | | |
| RFT P25 UHF MANUAL | RFT UHF P25/analog manual (included with repeater purchase) | \$112.00 |
| RFT P25 VHF MANUAL | RFT VHF P25/analog manual (included with repeater purchase) | \$112.00 |

Accessories

| Model | Description | MSRP |
|--------------------------------------------|--------------------------------------------------------------------------------------------------|------------|
| Miscellaneous | | |
| RFT P25-C | P25 firmware upgrade for RFT analog P25 upgradeable repeaters | \$0.00 |
| Power Equipment & Rack Mounting | | |
| IASDP1001 | DC distribution panel 12/24VDC with remote power control and SNMP. It can manage up to 12 loads. | \$1,825.00 |
| IASIV1300 | Site inverter 300W 12/24VDC; 1RU 19" rack mountable | \$675.00 |
| Racks | | |
| IASMNT1028 | 28x19, 16U desktop 2-post rack; 350lb weight capacity | \$395.00 |
| IASMNT1042 | 42x19 welded steel 2-post rack; 24U, 1,500lb weight capacity | \$750.00 |
| IASMNT1063 | 63x19 welded steel 2-post rack; 63U, 1,500lb weight capacity | \$995.00 |
| IASMNT1070 | 70x19 welded steel 2-post rack; 40U, 1,500lb weight capacity | \$1,025.00 |
| Software & Cables | | |
| IASE2CS100 | Programming software for RFT P25/analog repeaters | \$210.00 |
| IASTUN1001 | Icom to tune your system products | \$0.00 |
| PROG-IAS | Icom to program your system products | \$0.00 |

Discontinued Radios



F50V/F60V Series

Submersible Analog Portables are discontinued and no longer available from Icom.
Compatible accessories outlined below may still be available.

Accessories

| Model | Description | MSRP |
|-------------------|-----------------------------------------------------------------------------|----------|
| Antennas | | |
| AD92SMA | Antenna connector adapter to connect a BNC-type antenna | \$20.00 |
| CEN EXD 400 SMI | 400-420MHz stubby antenna for the F60/V portable radios | \$14.50 |
| CEN EXD 450 SMI | 450-470MHz stubby antenna for F60/V portable radios | \$20.00 |
| CEN EXS 150 SMI | 150-160MHz stubby antenna for F50/V & M88 handheld radios | \$16.00 |
| FAS24V | 136-150MHz antenna for the F50/V handhelds (Blue ring) | \$12.50 |
| FAS27U | 400-470MHz antenna for the F60/V (green ring) | \$13.00 |
| FAS56U | 450-520MHz antenna for F60/V (red ring) | \$13.00 |
| FAS57US | 450-490MHz stubby antenna for F60/V portable radios (red ring) | \$17.00 |
| FAS59V | 150-174MHz standard antenna for the F50 & M88 (red ring) | \$15.00 |
| FAS62VS | 150-162MHz stubby antenna for F50/V (Red ring) | \$17.00 |
| FAS63VS | 160-174MHz stubby antenna for F50/V (green ring) | \$16.00 |
| FAS74U | 490-520MHz antenna for F60/V (blue ring) | \$12.50 |
| Batteries | | |
| BP226 | Battery case holds 5 AA alkaline batteries for the F50/F60 & M88 | \$50.00 |
| BP227 | Li-ion 7.2V 1950mAh (typical capacity), 1850mAh (minimum value); waterproof | \$130.00 |
| Belt Clips | | |
| MB86 | Swivel belt clip that screws into back of radio | \$12.00 |
| MB96N | Swivel belt hanger to use with standard belt clip | \$37.00 |
| MB98 | Standard belt clip for the F50/60 & M88 | \$13.00 |
| Cables | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| OPC656 | DC power cable for gang charger | \$12.00 |

Accessories

| Model | Description | MSRP |
|-----------------|----------------------------------------------------------------------------------|----------|
| Chargers | | |
| AD100 | Adapter cup to install in the BC119N or BC121N for the F50/60 & M88 radios | \$27.00 |
| BC119N 02 | Rapid charger requiring radio specific adapter cup; 100-240V w/Euro style plug | \$76.00 |
| BC123SA | AC adapter for rapid chargers; 100-240V with US style plug | \$25.00 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |
| BC145SA 31 | AC adapter for BC119N; 100-240V with US style plug | \$25.00 |
| BC147SA | AC adapter for trickle chargers; 100-240V with a US style plug | \$15.00 |
| BC147SE 15 | AC adapter for trickle chargers; 230V with a Euro style plug | \$16.00 |
| BC152N 11 | F50/F60/M88 desktop trickle charger (requires BC-147) | \$42.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |
| BC190 01 | Sensing rapid charger for F50/60 radios; 100-240V with a US style plug | \$80.00 |
| BC190 02 | Sensing rapid charger for F50/60 radios; 100-240V with a Euro style plug | \$85.00 |
| BC197 37 | 6-Unit Charger Kit BC197 + BC157S + AD128 x 6 for F50/F60/M88 | \$580.00 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| MB130 | Vehicle charger bracket holds rapid charger and requires cigarette lighter cable | \$83.00 |
| Headsets | | |
| HS94 | Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392 | \$25.00 |
| HS95 | Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392 | \$215.00 |
| HS97 | Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392 | \$42.00 |
| OTTO V410514 | Lightweight single speaker w/in-line ptt, padded headband (9-pin connector) | \$155.00 |
| VS1SC | VOX/PTT case with 9-pin connector. Must use with HS94/HS95/HS97. | \$68.00 |
| Manuals | | |
| 94415358 | F60V CD service manual | \$0.00 |
| 94415376 | F50V CD service manual | \$0.00 |
| 97715317 | F50V service manual - hardcopy | \$0.00 |
| 97715356 | F60V service manual - hardcopy | \$0.00 |
| 98815318 | F50V/60V owner's manual | \$0.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|---------------------------------------------------------------------------------|----------|
| Microphones | | |
| HM131SC | Lightweight speaker microphone with earphone jack (9-pin) | \$79.00 |
| HM138 | Waterproof 9-pin marine style speaker mic (IS approved for F50/F60/M88/F70/F80) | \$130.00 |
| HM169 | Waterproof speaker mic (9-pin) | \$105.00 |
| IMPACT HD3-I5 | Heavy duty use speaker mic with 3.5mm accessory jack (9-pin) | \$76.00 |
| OTTO V110282 | Speaker mic earpiece(2.5mm straight plug) | \$50.00 |
| OTTO V110433 | Speaker mic earpiece (3.5mm right angle plug) | \$0.00 |
| Software & Cables | | |
| CSF50V | F50V Program Software | \$72.00 |
| OPC966U | USB programming cloning cable for radios with 9-pin connector | \$168.00 |
| Wire Kits | | |
| KLEIN DOUBLE AGENT-S8 | 2-Wire Kit D-Ring Earloop for F50/F60 | \$70.00 |
| OTTO V110822 | 2-Wire palm mic kit (earphone cable and mic/ptt cable) with 9-pin connector | \$125.00 |

F3011 – F4011 Series

F3011 – F4011 Series are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories

SPECS

| | |
|--------------------|------------------------------|
| Frequencies: | 136-174, 400-470, 450-512MHz |
| Output Power: | 5W (VHF); 4W (UHF) |
| Channels: | 16 |
| Channel Spacing: | 12.5kHz |
| Mil Spec: | 810 C, D, E |
| Scan: | Normal & priority |
| Weight: | 10.6oz (with BP-232H) |
| Waterproof Rating: | IP54 dust and splash proof |



FEATURES

- Low battery alert with blinking LED & beep
- 3 Buttons
- Talk around function
- 3-color LED (red, green & orange)
- Time out timer
- 2-step power save

SIGNALING

CTCSS / DTCS encode & decode

COMES WITH

- Antenna (FA-SC55V or FA-SC57U)
- Battery (BP-232H)
- Belt Clip (MB-94)
- Rapid Charger (BC-160)
- Owner's manual
- Warranty: 2 years

IP54
DUST PROTECTION
& SPLASH PROOF



OTTO
ACCESSORIES
AVAILABLE

MDC 1200
Compatible

Accessories

| Model | Description | MSRP |
|--------------------|--------------------------------------------------------------------|---------|
| ENGRAVE | Engrave radio | \$0.00 |
| EXTWARR211 | 1 year extended warranty for a total 3 years | \$25.00 |
| EXTWARR212 | 2 year extended warranty for a total 4 years | \$44.00 |
| EXTWARR213 | 3 year extended warranty for a total 5 years | \$62.00 |
| Antennas | | |
| FASC25U | 400-430MHz antenna for LM portables | \$13.00 |
| FASC25V | 136-150MHz antenna for LM portables | \$13.00 |
| FASC26US | 400-450MHz stubby antenna for LM portables | \$14.50 |
| FASC26VS | 136-144MHz stubby antenna for LM portables | \$14.50 |
| FASC27VS | 142-150MHz stubby antenna for LM portables | \$14.50 |
| FASC28V | 142-162MHz antenna for LM portables | \$13.00 |
| FASC29V | 160-174MHz antenna for LM portables | \$13.00 |
| FASC55V | 146-174MHz standard antenna for LM portables | \$13.00 |
| FASC56VS | 150-160MHz stubby antenna for LM portables | \$14.50 |
| FASC57U | 430-470MHz standard antenna for LM radios (red ring) | \$13.00 |
| FASC57VS | 160-174MHz stubby antenna for LM portables | \$14.50 |
| FASC61UC | 380-520MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC61VC | 136-174MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC62V | 150-160MHz high gain antenna for LM portables (10") | \$55.00 |
| FASC63V | 155-165MHz high gain antenna for LM portables (9.5") | \$55.00 |
| FASC72U | 470-512MHz antenna for LM portables | \$13.00 |
| FASC73US | 450-470MHz stubby antenna for LM portable radios | \$14.50 |
| LAIRD EXH 160 MXI | 155-160MHz antenna | \$26.00 |
| LARSEN SPHL10160IC | 151-163MHz helical ¼ wave antenna center tuned to 157MHz | \$26.00 |
| Batteries | | |
| BP232H | Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value) | \$75.00 |
| BP240 | Battery case that holds 6 AAA alkaline batteries (1W output power) | \$35.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------|
| <i>Belt Clips</i> | | |
| AW STUD/SWIVEL KIT | Metal stud that slides on like a belt clip and it's attached to a strong metal swivel belt clip | \$21.00 |
| AW SWIVEL | Swivel clip used with the AW Stud/Swivel Kit. | \$13.00 |
| MB93 | Swivel belt clip | \$11.00 |
| MB94 | Alligator belt clip | \$10.50 |
| MB94R | Alligator belt clip with long clip that angles the antenna/top of radio off the body | \$18.00 |
| MB96N | Swivel belt hanger to use with standard belt clip | \$37.00 |
| <i>Cables</i> | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| OPC656 | DC power cable for gang charger | \$12.00 |
| <i>Carrying Cases</i> | | |
| LCF14 SWIVEL | Leather carrying case with a swivel F14/24 & F3011/4011 radios | \$50.00 |
| <i>Chargers</i> | | |
| AD106 | Adapter cup for the BC119N/BC121N for the radios with the BP232N/H battery | \$28.00 |
| AD122 | Adapter cup that fits into the BC197 22/23 for the BP232N/H batteries | \$23.00 |
| BC123SA | AC adapter for rapid chargers; 100-240V with US style plug | \$25.00 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |
| BC160 | Rapid charger for radios with the BP230/231/232 battery; 100-240V with a US style plug | \$70.00 |
| BC160E | Rapid charger for radios with the BP230/231/232 battery; 100-240V with a Euro style plug | \$70.00 |
| BC197 22 | Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with US style plug | \$510.00 |
| BC197 23 | Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with Euro style plug | \$510.00 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| MB130 | Vehicle charger bracket holds rapid charger and requires cigarette lighter cable | \$83.00 |

Accessories

| Model | Description | MSRP |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------|
| Headsets | | |
| HS94 | Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392 | \$25.00 |
| HS95 | Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392 | \$215.00 |
| HS97 | Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392 | \$42.00 |
| OTTO V4EX2CC5 | Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle connector) | \$90.00 |
| OTTO V4EX2CS5 | Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle screw down connector) | \$145.00 |
| VS1L | VOX/PTT case with 2-pin right angle connector. Must use with HS94/HS95/HS97 | \$44.00 |
| Manuals | | |
| 94415491 | F4011 CD service manual | \$50.22 |
| 94415494 | F3011 CD service manual | \$17.12 |
| 97715490 | F4011 service manual - hardcopy | \$21.88 |
| 97715493 | F3011 service manual - hardcopy | \$21.61 |
| 98815492 | F3011/4011 owner's manual | \$30.82 |
| Microphones | | |
| HM158LA | Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker) | \$47.00 |
| HM159LA | Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker) | \$77.00 |
| HM-HD7I7WP | Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector) | \$110.00 |
| IMPACT HD3-I3 | Heavy duty speaker mic w/3.5mm accessory jack (2-pin screw down connector) | \$59.00 |
| OTTO V110282 | Speaker mic earpiece(2.5mm straight plug) | \$50.00 |
| OTTO V110433 | Speaker mic earpiece (3.5mm right angle plug) | \$0.00 |
| OTTO V2C2CS11 | Legacy speaker microphone (2-pin screw down connector) | \$0.00 |
| SP-AT1 | Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape) | \$31.50 |
| RedHawk | | |
| IAS BC-RHADPTR | 100-240V charger adapter for use with the IAS OPC-RHUSB | \$70.00 |
| IAS BC-RHCHG1 | 100-240V single unit charger for RedHawk mic | \$105.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| IAS BC-RHCHG12 | 100-240V 12 unit charger for the RedHawk mics | \$1,000.00 |
| IAS BP-RHBATT1 | 3.8V 1200mAh battery for RedHawk mic | \$45.00 |
| IAS CP-RHLP | 12-24V cigarette lighter plug requiring 2 USB cables | \$60.00 |
| IAS CS-RHSW | Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed. | \$120.00 |
| IAS OPC-RHI2 | RedHawk 2-pin cable connects GPS mic to radio | \$93.00 |
| IAS OPC-RHUSB | USB cable to connect mic with PC or charger adapter. One comes with each microphone. | \$30.00 |
| IAS REDHAWK | Speaker microphone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required. | \$584.00 |
| Software & Cables | | |
| CSF3011 | F3011/4011 software | \$0.00 |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$0.00 |
| Wire Kits | | |
| HM128L | Earphone/mic with 2-pin right angle connector | \$28.50 |
| HM153LA | Covert durable microphone with earphone combination (right angle 2-pin screw down connector) | \$125.00 |
| HM166LA | Earphone microphone with 2-pin right angle connector | \$53.00 |

VE-PG3

VE-PG3 are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories

SPECS

Power Supply: 12V DC +/- 10%, max 1.1A
Weight: 1.76lb

Interface
LAN/WAN: RJ-45 connectors x 2
Ethernet Speed: 10BASE-T/100BASE-TX
Telephone Set: RJ-11 connector x 1
Telephone Line: RJ-11 connector x 2
Repeater/Radio: Quick connector x 4
I/O or external equipment: Quick connector x 2
USB: Standard A x 2



FEATURES

Converter Mode

- Interconnect between IP phone, analog phone and radio networks
- Phone calls can be initiated by radio users

Bridge Mode:

- Site-to-site radio communication over an IP network
- Site-to-multisite radio communication
- Cross band, cross category connection

Common Features:

- Optional RC-FS10 software for virtual PC dispatch station
- Public address, siren, warning light and external equipment connections (IDAS only)

WARRANTY

1-Year

Comes With

AC adapter

MULTITRUNK

IDAS
ICOM DIGITAL ADVANCED SYSTEM

Accessories

| Model | Description | MSRP |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| EXTWARR811 | 1 year extended warranty | \$65.00 |
| EXTWARR812 | 2 year extended warranty | \$93.00 |
| EXTWARR813 | 3 year extended warranty | \$130.00 |
| Cables | | |
| OPC2273 | 5m audio connection cable between the VEPG3 and the M604A (Waterproof 8-pin connector). | \$150.00 |
| OPC2274 | 5m audio connection cable between the VEPG3 and the FR5000 series (D-SUB 25-pin connector). For use only with systems that do not utilize tones or RAN's for squelching. | \$235.00 |
| OPC2275 | 5m audio connection cable between the VEPG3 and the F5061/D series or A120 (RJ-45 modular plug connector with speaker plug). | \$150.00 |
| Chargers | | |
| BC207S | 12V / 3.5A AC adapter for VEPG3/IP1000C | \$85.00 |
| Mounting Hardware | | |
| MB VP3 | Rack mounting shelf for VEPG3/IP1000C | \$100.00 |
| MB99A | Wall mounting bracket VEPG3/IP1000C | \$65.00 |
| Remote Communication | | |
| CT24 | Digital voice converter (supplied with RCFS10 and works with VEPG3) | \$1,200.00 |
| RCFS10 | Remote Communicator software + CT-24 (digital voice converter unit - each IDAS system requires 1 CT-24) | \$1,820.00 |

F3031S – F4031S Series

Analog Submersible Portables are discontinued and no longer available from Icom.
Compatible accessories outlined below may still be available.

Accessories

| Model | Description | MSRP |
|--------------------|-------------------------------------------------------------------------------------------------|---------|
| Antennas | | |
| FASC25U | 400-430MHz antenna for LM portables | \$13.00 |
| FASC25V | 136-150MHz antenna for LM portables | \$13.00 |
| FASC26US | 400-450MHz stubby antenna for LM portables | \$14.50 |
| FASC55V | 146-174MHz standard antenna for LM portables | \$13.00 |
| FASC56VS | 150-160MHz stubby antenna for LM portables | \$14.50 |
| FASC57U | 430-470MHz standard antenna for LM radios (red ring) | \$13.00 |
| FASC57VS | 160-174MHz stubby antenna for LM portables | \$14.50 |
| FASC61UC | 380-520MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC61VC | 136-174MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC62V | 150-160MHz high gain antenna for LM portables (10") | \$55.00 |
| FASC63V | 155-165MHz high gain antenna for LM portables (9.5") | \$55.00 |
| FASC72U | 470-512MHz antenna for LM portables | \$13.00 |
| FASC73US | 450-470MHz stubby antenna for LM portable radios | \$14.50 |
| Batteries | | |
| BP232WP | Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value) IP67 waterproof battery | \$75.00 |
| BP240 | Battery case that holds 6 AAA alkaline batteries (1W output power) | \$35.00 |
| Belt Clips | | |
| AW STUD/SWIVEL KIT | Metal stud that slides on like a belt clip and it's attached to a strong metal swivel belt clip | \$21.00 |
| AW SWIVEL | Swivel clip used with the AW Stud/Swivel Kit. | \$13.00 |
| MB93 | Swivel belt clip | \$11.00 |
| MB94 | Alligator belt clip | \$10.50 |
| MB94R | Alligator belt clip with long clip that angles the antenna/top of radio off the body | \$18.00 |
| MB96N | Swivel belt hanger to use with standard belt clip | \$37.00 |

Accessories

| Model | Description | MSRP |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------|
| Cables | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| OPC656 | DC power cable for gang charger | \$12.00 |
| Carrying Cases | | |
| LCF3021S SWIVEL | Leather carrying case with a metal swivel clip and cutout for the display | \$50.00 |
| NCF3021S CLIP | Nylon carrying case with a clip and cutout for the display | \$27.00 |
| Chargers | | |
| AD106 | Adapter cup for the BC119N/BC121N for the radios with the BP232N/H battery | \$28.00 |
| AD122 | Adapter cup that fits into the BC197 22/23 for the BP232N/H batteries | \$23.00 |
| BC119N 02 | Rapid charger requiring radio specific adapter cup; 100-240V w/Euro style plug | \$76.00 |
| BC145SA 31 | AC adapter for BC119N; 100-240V with US style plug | \$25.00 |
| BC147SA | AC adapter for trickle chargers; 100-240V with a US style plug | \$15.00 |
| BC147SE 15 | AC adapter for trickle chargers; 230V with a Euro style plug | \$16.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |
| BC160 | Rapid charger for radios with the BP230/231/232 battery; 100-240V with a US style plug | \$70.00 |
| BC160E | Rapid charger for radios with the BP230/231/232 battery; 100-240V with a Euro style plug | \$70.00 |
| BC197 22 | Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with US style plug | \$510.00 |
| BC197 23 | Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with Euro style plug | \$510.00 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| MB130 | Vehicle charger bracket holds rapid charger and requires cigarette lighter cable | \$83.00 |
| Encryption & Internal Modules | | |
| UT109R 21 | Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110. | \$105.00 |
| UT110R 21 | Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. Works only in analog mode. | \$173.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------|
| Microphones | | |
| HM158LA | Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker) | \$47.00 |
| HM159LA | Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker) | \$77.00 |
| HM-HD7I7WP | Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector) | \$110.00 |
| SP-AT1 | Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape) | \$31.50 |
| Software & Cables | | |
| CSF3021/F5021/F5011 | F3021/5021/5011 series programming software | \$72.00 |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |
| Wire Kits | | |
| HM166LA | Earphone microphone with 2-pin right angle connector | \$53.00 |

F11-F21 Discontinued

The F11/21 portables are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

| Model | Description | MSRP |
|-----------------------|------------------------------------------------------------|---------|
| Antennas | | |
| AD98FSC | Antenna connector adapter for "J" to "BNC" conversion | \$22.00 |
| FASC25V | 136-150MHz antenna for LM portables | \$13.00 |
| FASC55V | 146-174MHz standard antenna for LM portables | \$13.00 |
| FASC56VS | 150-160MHz stubby antenna for LM portables | \$14.50 |
| FASC57U | 430-470MHz standard antenna for LM radios (red ring) | \$13.00 |
| FASC57VS | 160-174MHz stubby antenna for LM portables | \$14.50 |
| FASC61UC | 380-520MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC61VC | 136-174MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC73US | 450-470MHz stubby antenna for LM portable radios | \$14.50 |
| Batteries | | |
| BP208N | Battery case that holds 6 AA alkaline batteries. | \$22.00 |
| BP210N | NiMH 7.2V 1650mAh battery | \$95.00 |
| Belt Clips | | |
| MB103 | Alligator belt clip | \$12.50 |
| MB74N | Alligator Clip for BP209 & BP210 (non N version batteries) | \$12.00 |
| MB86 | Swivel belt clip that screws into back of radio | \$12.00 |
| SPRING CLIP L | Long spring clip insert length 3.5 inches | \$5.00 |
| Cables | | |
| OPC656 | DC power cable for gang charger | \$12.00 |
| Carrying Cases | | |
| LCF21 CLIP | Leather carrying case with a clip F11/21 radios | \$45.00 |
| NCF21 LOOP | Nylon carrying case with a loop F11/21 radios | \$25.00 |

Accessories

| Model | Description | MSRP |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------|
| Chargers | | |
| AD101 | Adapter cup for the BC119N or BC121N for the BP210N & BP211 batteries | \$28.00 |
| AD94 11 | Adapter cup for the BC119N or BC121N for the BP209N/BP210N batteries | \$28.00 |
| BC145SA 31 | AC adapter for BC119N; 100-240V with US style plug | \$25.00 |
| BC146 01 | Drop-in trickle charger base for the F11/21/3G/4G/30G/40G series. Requires BC147 AC adapter. | \$32.00 |
| BC147SA | AC adapter for trickle chargers; 100-240V with a US style plug | \$15.00 |
| BC147SE 15 | AC adapter for trickle chargers; 230V with a Euro style plug | \$16.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |
| Headsets | | |
| HS94 | Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392 | \$25.00 |
| HS95 | Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392 | \$215.00 |
| HS97 | Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392 | \$42.00 |
| OTTO V4EX2CC5 | Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle connector) | \$90.00 |
| OTTO V4EX2CS5 | Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle screw down connector) | \$145.00 |
| VS1L | VOX/PTT case with 2-pin right angle connector. Must use with HS94/HS95/HS97 | \$44.00 |
| Manuals | | |
| 94414314 | F11/F11S/F21/F21S service manual - CD | \$0.00 |
| 97713705 | F21/F21S service manual hardcopy | \$0.00 |
| 97713930 | F11/F11S service manual hardcopy | \$0.00 |
| 98813703 | F11/F11S & F21/F21S owner's manual | \$0.00 |
| Microphones | | |
| HM158LA | Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker) | \$47.00 |
| HM159LA | Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker) | \$77.00 |
| OTTO V2C2CS11 | Legacy speaker microphone (2-pin screw down connector) | \$0.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|----------------------------------------------------------------------------------------------|----------|
| Software & Cables | | |
| CSF11 | F11/F21 Program Sftwre | \$72.00 |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |
| Wire Kits | | |
| HM128L | Earphone/mic with 2-pin right angle connector | \$28.50 |
| HM153LA | Covert durable microphone with earphone combination (right angle 2-pin screw down connector) | \$125.00 |
| HM166LA | Earphone microphone with 2-pin right angle connector | \$53.00 |

F14/F24 - F33G/F43G - F43TR – F3021/F4021 Accessories

The F14/F24 - F33G/43G, F43TR & F3021 / F4021 portables are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

| Model | Description | MSRP |
|--------------------|-------------------------------------------------------------------------------------------------|---------|
| Antennas | | |
| FASC25U | 400-430MHz antenna for LM portables | \$13.00 |
| FASC25V | 136-150MHz antenna for LM portables | \$13.00 |
| FASC55V | 146-174MHz standard antenna for LM portables | \$13.00 |
| FASC56VS | 150-160MHz stubby antenna for LM portables | \$14.50 |
| FASC57U | 430-470MHz standard antenna for LM radios (red ring) | \$13.00 |
| FASC57VS | 160-174MHz stubby antenna for LM portables | \$14.50 |
| FASC61UC | 380-520MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC61VC | 136-174MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC62V | 150-160MHz high gain antenna for LM portables (10") | \$55.00 |
| FASC63V | 155-165MHz high gain antenna for LM portables (9.5") | \$55.00 |
| FASC72U | 470-512MHz antenna for LM portables | \$13.00 |
| FASC73US | 450-470MHz stubby antenna for LM portable radios | \$14.50 |
| LAIRD EXH 160 MXI | 155-160MHz antenna | \$26.00 |
| LARSEN SPHL10160IC | 151-163MHz helical ¼ wave antenna center tuned to 157MHz | \$26.00 |
| Batteries | | |
| BP232H | Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value) | \$75.00 |
| BP240 | Battery case that holds 6 AAA alkaline batteries (1W output power) | \$35.00 |
| Belt Clips | | |
| AW STUD/SWIVEL KIT | Metal stud that slides on like a belt clip and it's attached to a strong metal swivel belt clip | \$21.00 |
| AW SWIVEL | Swivel clip used with the AW Stud/Swivel Kit. | \$13.00 |
| MB93 | Swivel belt clip | \$11.00 |
| MB94 | Alligator belt clip | \$10.50 |
| MB94R | Alligator belt clip with long clip that angles the antenna/top of radio off the body | \$18.00 |
| MB96N | Swivel belt hanger to use with standard belt clip | \$37.00 |

Accessories

| Model | Description | MSRP |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------|
| Cables | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| OPC656 | DC power cable for gang charger | \$12.00 |
| Carrying Cases | | |
| LCF14 SWIVEL | Leather carrying case with a swivel F14/24 & F3011/4011 radios | \$50.00 |
| LCF3021S SWIVEL | Leather carrying case with a metal swivel clip and cutout for the display | \$50.00 |
| NCF3021S CLIP | Nylon carrying case with a clip and cutout for the display | \$27.00 |
| Chargers | | |
| AD106 | Adapter cup for the BC119N/BC121N for the radios with the BP232N/H battery | \$28.00 |
| AD122 | Adapter cup that fits into the BC197 22/23 for the BP232N/H batteries | \$23.00 |
| BC145SA 31 | AC adapter for BC119N; 100-240V with US style plug | \$25.00 |
| BC147SA | AC adapter for trickle chargers; 100-240V with a US style plug | \$15.00 |
| BC147SE 15 | AC adapter for trickle chargers; 230V with a Euro style plug | \$16.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |
| BC160 | Rapid charger for radios with the BP230/231/232 battery; 100-240V with a US style plug | \$70.00 |
| BC160E | Rapid charger for radios with the BP230/231/232 battery; 100-240V with a Euro style plug | \$70.00 |
| BC197 22 | Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with US style plug | \$510.00 |
| BC197 23 | Six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed); 100-240V with Euro style plug | \$510.00 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| MB130 | Vehicle charger bracket holds rapid charger and requires cigarette lighter cable | \$83.00 |
| Encryption & Internal Modules | | |
| UT109 02 | Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110. | \$105.00 |
| UT109R 21 | Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110. | \$105.00 |
| UT110 01 | Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. | \$0.00 |
| UT110 02 | Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. | \$173.00 |

Accessories

| Model | Description | MSRP |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------|
| UT110R 21 | Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. Works only in analog mode. | \$173.00 |
| UT124 01 | Man down unit | \$90.00 |
| Headsets | | |
| HS94 | Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392 | \$25.00 |
| HS95 | Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392 | \$215.00 |
| HS97 | Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392 | \$42.00 |
| OTTO V4EX2CC5 | Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle connector) | \$90.00 |
| OTTO V4EX2CS5 | Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle screw down connector) | \$145.00 |
| VS1L | VOX/PTT case with 2-pin right angle connector. Must use with HS94/HS95/HS97 | \$44.00 |
| Manuals | | |
| 94414845 | F33G/F43G service manual - CD | \$28.97 |
| 94414913 | F14/F24 CD service manual | \$16.95 |
| 94415195 | F3021/F4021 CD service manual | \$28.97 |
| 97714843 | F43GS/GT service manual - hardcopy | \$31.32 |
| 97714895 | F33GS/GT service manual hardcopy | \$31.07 |
| 97714922 | F14/F14S service manual hardcopy | \$24.82 |
| 97714932 | F24/F24S service manual hardcopy | \$29.79 |
| 97715148 | F3021 service manual - hardcopy | \$34.59 |
| 97715171 | F4021 service manual - hardcopy | \$43.66 |
| 98814817 | F43GS/GT owner's manual | \$11.17 |
| 98814946 | F14/F24 owner's manual | \$31.86 |
| 98815180 | F3021/4021 owner's manual | \$6.42 |
| Microphones | | |
| HM158LA | Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker) | \$47.00 |
| HM159LA | Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker) | \$77.00 |
| HM-HD7I7WP | Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector) | \$110.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|-----------------------------------------------------------------------------------------------------------|------------|
| IMPACT HD3-I3 | Heavy duty speaker mic w/3.5mm accessory jack (2-pin screw down connector) | \$59.00 |
| OTTO V110282 | Speaker mic earpiece(2.5mm straight plug) | \$50.00 |
| OTTO V110433 | Speaker mic earpiece (3.5mm right angle plug) | \$0.00 |
| OTTO V2C2CS11 | Legacy speaker microphone (2-pin screw down connector) | \$0.00 |
| SP-AT1 | Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape) | \$31.50 |
| RedHawk | | |
| IAS BC-RHADPTR | 100-240V charger adapter for use with the IAS OPC-RHUSB | \$70.00 |
| IAS BC-RHCHG1 | 100-240V single unit charger for RedHawk mic | \$105.00 |
| IAS BC-RHCHG12 | 100-240V 12 unit charger for the RedHawk mics | \$1,000.00 |
| IAS BP-RHBATT1 | 3.8V 1200mAh battery for RedHawk mic | \$45.00 |
| IAS CP-RHLP | 12-24V cigarette lighter plug requiring 2 USB cables | \$60.00 |
| IAS CS-RHSW | Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed. | \$120.00 |
| IAS OPC-RHI2 | RedHawk 2-pin cable connects GPS mic to radio | \$93.00 |
| IAS OPC-RHUSB | USB cable to connect mic with PC or charger adapter. One comes with each microphone. | \$30.00 |
| Software & Cables | | |
| CSF14 | F14/F24 Program Sftwre w/ MDC | \$0.00 |
| CSF3021/F5021/F5011 | F3021/5021/5011 series programming software | \$72.00 |
| CSF33G | F33G/F43G Prg Software | \$0.00 |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |
| Wire Kits | | |
| HM128L | Earphone/mic with 2-pin right angle connector | \$28.50 |
| HM153LA | Covert durable microphone with earphone combination (right angle 2-pin screw down connector) | \$125.00 |
| HM166LA | Earphone microphone with 2-pin right angle connector | \$53.00 |

F30G – F40G Series

The F30G & F40G portables are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

| Model | Description | MSRP |
|-----------------------|----------------------------------------------------------------------|----------|
| Antennas | | |
| AD98FSC | Antenna connector adapter for "J" to "BNC" conversion | \$22.00 |
| FASC25V | 136-150MHz antenna for LM portables | \$13.00 |
| FASC55V | 146-174MHz standard antenna for LM portables | \$13.00 |
| FASC56VS | 150-160MHz stubby antenna for LM portables | \$14.50 |
| FASC57U | 430-470MHz standard antenna for LM radios (red ring) | \$13.00 |
| FASC57VS | 160-174MHz stubby antenna for LM portables | \$14.50 |
| FASC61UC | 380-520MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC61VC | 136-174MHz cut antenna for the specific frequency desired | \$19.00 |
| FASC73US | 450-470MHz stubby antenna for LM portable radios | \$14.50 |
| Batteries | | |
| BP210N | NiMH 7.2V 1650mAh battery | \$95.00 |
| BP210N FM | Intrinsically safe NiMH 7.2V 1650mAh battery for F30G/F40G IS radios | \$131.00 |
| Belt Clips | | |
| MB103 | Alligator belt clip | \$12.50 |
| MB74N | Alligator Clip for BP209 & BP210 (non N version batteries) | \$12.00 |
| MB86 | Swivel belt clip that screws into back of radio | \$12.00 |
| SPRING CLIP L | Long spring clip insert length 3.5 inches | \$5.00 |
| Cables | | |
| OPC656 | DC power cable for gang charger | \$12.00 |
| Carrying Cases | | |
| NCF30G LOOP | Nylon carrying case with a loop for the F30G/40G & M36 radios | \$25.00 |

Accessories

| Model | Description | MSRP |
|------------------------------------------|-----------------------------------------------------------------------------------------------------|----------|
| Chargers | | |
| AD94 11 | Adapter cup for the BC119N or BC121N for the BP209N/BP210N batteries | \$28.00 |
| BC145SA 31 | AC adapter for BC119N; 100-240V with US style plug | \$25.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |
| Encryption & Internal Modules | | |
| UT109 02 | Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110. | \$105.00 |
| UT110 02 | Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. | \$173.00 |
| UT124 01 | Man down unit | \$90.00 |
| Headsets | | |
| HS94 | Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392 | \$25.00 |
| HS95 | Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392 | \$215.00 |
| HS97 | Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392 | \$42.00 |
| OTTO V410399 | Skull Mic System w/earcup and 80mm body PTT for F30G/40G and M88 | \$650.00 |
| VS1SC | VOX/PTT case with 9-pin connector. Must use with HS94/HS95/HS97. | \$68.00 |
| Manuals | | |
| 94413511 | F40GS/GT service manual - CD | \$0.00 |
| 94414803 | F30G/F40G service manual - CD | \$0.00 |
| 97713510 | F30GS/GT service manual hardcopy | \$0.00 |
| 97713513 | F40GS/GT service manual hardcopy | \$0.00 |
| 98813509 | F30G/F40G owner's manual | \$0.00 |
| Microphones | | |
| EM80 | 9-pin full size speaker mic for F30G series. IS approved to work with F30G IS radios. | \$15.00 |
| HM131SC | Lightweight speaker microphone with earphone jack (9-pin) | \$79.00 |
| OTTO V110282 | Speaker mic earpiece(2.5mm straight plug) | \$50.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|--------------------------------------------------------------------------------|----------|
| Software & Cables | | |
| CSF30G | F30G/F40G Prg Software | \$72.00 |
| OPC966U | USB programming cloning cable for radios with 9-pin connector | \$168.00 |
| Wire Kits | | |
| OTTO V1T12CD137 | Throat Mic Sys w/tube ear piece and body PTT with 9 pin connector for F30G/40G | \$505.00 |



U.S. Land Mobile Retail
Product Catalog

Icom America Inc.



U.S. Marine Retail Product & Price Catalog

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VHF Handhelds



M25

VHF Marine Transceiver

SPECS

| | |
|-----------------------------|---------------------------------------------------|
| Output Power: | 5W, 1W |
| Waterproof Rating: | IPX7 (submersible protection) |
| Frequencies: | Tx: 156.025–157.425MHz Rx: 156.050–163.275MHz |
| Usable Channel Groups: | INT, USA, CAN and WX |
| Type of Emission: | FM (16K0G3E) |
| Current Drain (at 3.7V DC): | Tx (High): 2.3A Rx (at AF max): 300mA/200mA |
| Weight: | 7.8oz |
| Versions: | Marine blue, metallic gray, pearl white |



FEATURES

- Float 'n flash
- USB charging
- 11 hours battery life
- Large LCD with simple user interface (30% larger than M24)
- 550mW audio output
- 4-step battery life indicator
- Dual/Tri-watch functions
- Weather channel with weather alert
- Instant access to Ch. 16 or programmable call channel
- Auto scan function
- Tag scan
- Favorite channel functions
- Monitor function opens noise squelch
- LCD auto backlighting
- AquaQuake draining function

COMES WITH

- Battery charger (BC217SA)
- Belt clip (MB133)
- Antenna (FASC59V)
- Hand strap
- Owner's manual
- Warranty: 3 years

IPX7

M25

VHF Marine Transceiver

Configurations

| Model | Description | MSRP |
|-----------|--------------------------------------------------|----------|
| M25 GRAY | 5W floating marine VHF handheld in metallic gray | \$191.00 |
| M25 WHITE | 5W floating marine VHF handheld in pearl white | \$191.00 |
| M25 BLUE | 5W floating marine VHF handheld in marine blue | \$191.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|------------------------------------------------------|----------|
| Antennas | | |
| FASC59V | Standard antenna M25/M37/M93D/M92D | \$21.00 |
| Batteries | | |
| BP282 | 1500mAh Li-ion battery for the M25 | \$50.00 |
| Belt Clips | | |
| MB133 | Alligator type belt clip | \$17.00 |
| Chargers | | |
| BC217SA | USB charger; 100-240V with a US style plug | \$22.00 |
| Microphones | | |
| HM213 | Waterproof floating speaker mic for M25 | \$120.00 |
| Software & Cables | | |
| CSM25 | M25 programming software (requires OPC478UC+OPC1655) | \$95.00 |
| OPC1655 | Cloning cable adapter for M25/M36/M93D | \$47.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |

M37

VHF Marine Handheld

SPECS

| | |
|------------------------|-------------------------------------------------------------------------------------------|
| Output Power: | 6W, 1W |
| Waterproof Rating: | IP57 rating |
| Frequencies: | Tx: 156.025-157.425MHz Rx: 156.050-163.275MHz |
| Usable Channel Groups: | INT, USA, CAN, WX |
| Type of Emission: | 16K0G3E |
| Current Drain: | Tx (at 6.0W/1.0W output): 2.5A/1.0A Rx (Max audio. Inter SP/Exter SP): 0.4A/0.2A |
| Weight: | 10.3oz (with BP296) |



FEATURES

700mW audio output
Channel history function stores the last five channels used for easy recall
Float'n Flash function
Low Battery Alert function
Voice Loud and Mute function enables to temporary maximize/mute the volume
AquaQuake™ function prevents audio degradation from a water-logged speaker
Dualwatch and Tri-Watch functions
Favorite Channel function
Instant access to channel 16 and the Call channel
Weather channels with Weather Alert function

COMES WITH

Battery pack (BP296)
Trickle charger (BC235)
AC adapter (BC217SA)
Belt clip (MB133)
Antenna (FASC59V)
Hand strap
Owner's manual
Warranty: 3 years



M37

VHF Marine Handheld

Configurations

| Model | Description | MSRP |
|-------|----------------------------------------------------------------|----------|
| M37 | 6W marine VHF floating handheld with battery, charger included | \$277.00 |

Accessories

| Model | Description | MSRP |
|-----------------------|--------------------------------------------|----------|
| Antennas | | |
| FASC59V | Standard antenna M25/M37/M93D/M92D | \$21.00 |
| Batteries | | |
| BP296 | 3.6V 2350mAh Li-Ion battery (M37) | \$75.00 |
| BP297 | Alkaline case for M37 (3 x AAA) | \$30.00 |
| Belt Clips | | |
| MB133 | Alligator type belt clip | \$17.00 |
| Carrying Cases | | |
| NCP1 | Nylon chest pack | \$50.00 |
| Chargers | | |
| BC217SA | USB charger; 100-240V with a US style plug | \$22.00 |
| BC235 | Desktop trickle charger (requires BC217SA) | \$21.00 |
| Microphones | | |
| HM213 | Waterproof floating speaker mic for M25 | \$120.00 |

M73

VHF Marine Transceiver

SPECS

| | |
|------------------------|-----------------------------------------------------------|
| Output Power: | 6W, 3W, 1W |
| Waterproof Rating: | IPX8 (submersible) |
| Frequencies: | Tx: 156.025-157.425MHz Rx: 156.050-163.275MHz |
| Usable Channel Groups: | INT, USA, CAN, WX |
| Type of Emission: | FM (16K0G3E) |
| Current Drain: | Tx (at 6W output): 1.5A Rx (Max.audio): 450mA/250mA |
| Weight: | 11.3oz (with BP245N) |



FEATURES

Both Versions:

- Slim, hourglass body and wide viewing angle LCD
- IPX8 Submersible Plus™
- 700mW loud audio
- 6W RF output power
- AquaQuake™ water draining function
- Dual/Tri-Watch function for monitoring Channel 16 and/or call channel
- 4 level battery indicator
- Favorite channel and tag scan functions
- Auto power save function

Plus Version:

- Last call voice recording
- Bidirectional active noise cancelling

COMES WITH

Antenna (FAS64V)
Battery pack (BP245N)
Belt clip (MB103)
Cigarette lighter cable (CP25H)
Rapid charger (BC210)
Hand strap
Owner's manual
Warranty: 3 years



M73

VHF Marine Transceiver

Configurations

| Model | Description | MSRP |
|----------|----------------------------------------------------------------------------------------|----------|
| M73 | 6W IPX8 submersible handheld | \$315.00 |
| M73 PLUS | 6W IPX8 submersible handheld with built-in active noise cancelling and voice recording | \$390.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------|
| Antennas | | |
| AD92SMA | Antenna connector adapter to connect a BNC-type antenna | \$20.00 |
| FAS64V | Standard antenna for the M72/M73 (4 17/32" or 115mm) | \$17.00 |
| Batteries | | |
| BP245H | 7.4V 2000mAh Li-Ion battery for M72/M73 | \$115.00 |
| Belt Clips | | |
| MB103 | Alligator belt clip | \$12.50 |
| MB86 | Swivel belt clip that screws into back of radio | \$12.00 |
| MB96N | Swivel belt hanger to use with standard belt clip | \$37.00 |
| Cables | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| OPC656 | DC power cable for gang charger | \$12.00 |
| Chargers | | |
| AD129 | Adapter cup for BC197 gang charger for M73 | \$27.00 |
| BC123SA | AC adapter for rapid chargers; 100-240V with US style plug | \$25.00 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |
| BC197 32 | Six unit charger for radios with the BP245N Li-Ion battery (includes AC adapter and cups installed); 100-240V with US style plug | \$515.00 |
| BC210 | Rapid charger for the BP-245N includes AC adapter with US plug | \$80.00 |
| Headsets | | |
| HS94 | Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392 | \$25.00 |
| HS95 | Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392 | \$215.00 |
| HS97 | Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392 | \$42.00 |
| OPC1392 | Headset adapter to use with HS94/95/97 for the M73/M72/GM1600/M90 | \$75.00 |
| Microphones | | |
| HM167 | Lightweight IPX8 waterproof speaker mic M73/GM1600/M92/M72 | \$120.00 |
| HM202 | Compact IPX7 waterproof speaker mic M73/M72 | \$130.00 |
| Software & Cables | | |
| CSM73 | Programming software for the M73 | \$95.00 |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |
| OPC922 | Cloning cable adapter for M72/M73/M92D | \$65.00 |

M73

VHF Marine Transceiver

M85

VHF Marine Transceiver

SPECS

Output Power:

Marine: 5W, 3W, 1W

Land mobile: 2W, 1W

Waterproof Rating: IP67

Frequencies:

Marine Tx: 156.025-157.425MHz

Marine Rx: 156.050-163.275MHz

LMR Tx/Rx: 136.000-174.000MHz

Usable Channel Groups: USA, INT,CAN, WX
100 LMR

Type of Emission:

Marine 16K0G3E

LMR 16K0F3E

11K0F3E

Current Drain: Tx (at 5W output): 1.5A

Rx (at AF max): 0.45A

Weight: 8.7oz



FEATURES

Compact and lightweight

Covers 136-174MHz land mobile frequency

Up to 100 programmable land mobile channels

700mW loud audio

Three emergency functions: MOB alarm, Man Down, and Lone Worker

Multi-function button allows user to change from marine to land mobile channels or use the scrambler function

Built-in voice scrambler (32-code)

AquaQuake™

Internal VOX capability

Weather channel receiving

Priority scan

Dual/Tri-watch function for monitoring CH16 and/or call channels

COMES WITH

Battery pack (BP290)

Battery charger (BC227)

AC adapter (BC123SA)

Antenna (FAS58V)

Belt clip (MBB3)

Hand strap

Owner's manual

Warranty: 3 years

M85

VHF Marine Transceiver

Configurations

| Model | Description | MSRP |
|-------|--------------------------------------------------------------------|----------|
| M85 | Marine VHF 5W handheld; 100 land mobile programmable channels (2W) | \$440.00 |

Accessories

| Model | Description | MSRP |
|-----------------------|------------------------------------------------------------------------------------|----------|
| Antennas | | |
| FASC58V | Standard antenna M24/M34/M36/M85 | \$16.00 |
| Batteries | | |
| BP290 | 2010mAh li-ion battery | \$105.00 |
| BP291 | Battery case 5 x AA | \$50.00 |
| BP294 | 3150mAh li-ion battery for the F52D/F62D/M85 | \$165.00 |
| Belt Clips | | |
| MB136 | Swivel belt clip for F1000/F3400/F7010/F52D/M85 series | \$15.00 |
| MB96N | Swivel belt hanger to use with standard belt clip | \$37.00 |
| MBB3 | Standard belt clip | \$16.00 |
| Cables | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| OPC656 | DC power cable for gang charger | \$12.00 |
| Carrying Cases | | |
| LCF1052S | Leather case with swivel belt loop and D-ring for the F52D | \$50.00 |
| NCF1052C | Nylon case for the F52D with a clip | \$27.00 |
| Chargers | | |
| BC123SA | AC adapter for rapid chargers; 100-240V with US style plug | \$25.00 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |
| BC214-1 | Six gang charger (includes AC adapter with US plug) | \$510.00 |
| BC214-1E | Six gang charger (includes AC adapter with Euro plug) | \$510.00 |
| BC225 | Smart rapid charger; 100-240V with a US style plug | \$135.00 |
| BC226 | Connectable rapid charger (connect up to 6) and requires the BC228 AC adapter | \$75.00 |
| BC227 | Rapid charger that goes into trickle mode at a 80% charge (US Plug) | \$67.00 |
| BC228 | AC adapter for BC226 | \$70.00 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| Headsets | | |
| HS94 | Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392 | \$25.00 |
| HS95 | Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392 | \$215.00 |
| HS97 | Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392 | \$42.00 |
| VS3 | Compact clippable PTT Bluetooth with earphone via 3.5mm jack for all-day operation | \$149.00 |
| VS5MC | VOX/PTT switch cable to use with headset (HS94/95/97) | \$150.00 |
| Microphones | | |
| HM184H | 14-pin loud waterproof speaker mic (no accessory jack) | \$118.00 |

M85

VHF Marine Transceiver

Accessories

| Model | Description | MSRP |
|------------------------------|---------------------------------------------------------------------------------------------------|----------|
| HM222 | IP68 waterproof speaker microphone w/3.5mm accessory jack (14-pin connector) | \$145.00 |
| HM236 | Compact waterproof speaker microphone | \$125.00 |
| HM-HD7I6WP | Large waterproof, high gain speaker microphone with 3.5mm accessory jack (14-pin connector) | \$120.00 |
| SP27 | Acoustic tube earphone with a clip (3.5mm) | \$35.00 |
| SP29 | Earhook type earphone with 3.5mm plug | \$25.00 |
| SP40 | Earphone with 3.5mm plug | \$30.00 |
| SP-AT1 | Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape) | \$31.50 |
| Miscellaneous | | |
| AD118 | 14-pin ACC adapter to use with Hirose plug accessories | \$80.00 |
| AD135 | 3.5mm earphone jack adapter that plugs into a 14-pin connector | \$42.00 |
| Software & Cables | | |
| CSM85 | M85 programming software | \$100.00 |
| OPC1862 | USB programming cloning cable for radios with 14-pin connector | \$189.00 |
| RSBC225 | Battery management software for the BP-283/284/BP290. Can connect up to 30 BC-225 chargers to it. | \$250.00 |
| Wire Kits | | |
| EH15B | Earphone with 2.5mm plug to use with HM-163MC | \$30.00 |
| HM163MC | Lapel mic with 2.5mm earphone jack | \$200.00 |
| SP26 | Tube earphone with 2.5mm plug to use with HM-163MC/HM-153LS | \$25.00 |
| SP28 | Earhook type earphone with 2.5mm plug to use with HM-163MC/HM-153LS | \$25.00 |
| SP32 | Tube adapter for use with the EH-15B | \$30.00 |

M85IS

VHF Intrinsically Safe Marine Transceiver

SPECS

| | |
|------------------------|--------------------------------------------------|
| Output Power: | |
| Marine: | 5W, 3W, 1W |
| Land mobile: | 2W, 1W |
| Waterproof Rating: | IP67 |
| Frequencies: | |
| Marine Tx: | 156.025-157.425MHz |
| Marine Rx: | 156.050-163.275MHz |
| LMR Tx/Rx: | 136.000-174.000MHz |
| Usable Channel Groups: | USA, INT,CAN, WX 100 LMR |
| Type of Emission: | |
| Marine | 16K0G3E |
| LMR | 16K0F3E 11K0F3E |
| Current Drain: | Tx (at 5W output): 1.5A Rx (at AF max): 0.45A |
| Weight: | 8.7oz |



FEATURES

Compact and lightweight
Covers 136-174MHz land mobile frequency
Up to 100 programmable land mobile channels
700mW loud audio
Three emergency functions: MOB alarm, Man Down, and Lone Worker
Multi-function button allows user to change from marine to land mobile channels or use the scrambler function
Built-in voice scrambler (32-code)
AquaQuake™
Internal VOX capability
Weather channel receiving
Priority scan
Dual/Tri-watch function for monitoring CH16 and/or call channels
Intrinsically Safe: meets ANSI/TIA-4950-A, ANSI/UL 121201 requirements for:

- Intrinsically safe: Class I, Division 1, Groups C, D;
- Class II, Division 1, Groups E, F, G;
- Class III. T3C.
- Non-incendive: Class I, Division 2, Groups A, B, C, D

COMES WITH

Battery pack (BP292IS)
Battery charger (BC227)
AC adapter (BC123SA)
Antenna (FAS58V)
Belt clip (MBB3)
Hand strap
Owner's manual
Warranty: 3 years

Note: The M85IS should only be used with the specified Intrinsically Safe options. UL certified the M85IS and accessories under the official names on the boxes and UL stickers M85UL, BP292UL, and HM184UL.

M85IS

VHF Intrinsically Safe Marine Transceiver

Configurations

| Model | Description | MSRP |
|-------|---------------------------------------------------------------------------------------|----------|
| M85IS | Intrinsically safe marine VHF 5W handheld; 100 land mobile programmable channels (2W) | \$610.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|---------------------------------------------------------------------------------------------------|----------|
| Antennas | | |
| FASC58V | Standard antenna M24/M34/M36/M85 | \$16.00 |
| Batteries | | |
| BP292IS | 2010mAh li-ion intrinsically safe battery | \$225.00 |
| Belt Clips | | |
| MB136 | Swivel belt clip for F1000/F3400/F7010/F52D/M85 series | \$15.00 |
| MB96N | Swivel belt hanger to use with standard belt clip | \$37.00 |
| MBB3 | Standard belt clip | \$16.00 |
| Cables | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| OPC656 | DC power cable for gang charger | \$12.00 |
| Carrying Cases | | |
| LCF1052S | Leather case with swivel belt loop and D-ring for the F52D | \$50.00 |
| NCF1052C | Nylon case for the F52D with a clip | \$27.00 |
| Chargers | | |
| BC123SA | AC adapter for rapid chargers; 100-240V with US style plug | \$25.00 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |
| BC214-1 | Six gang charger (includes AC adapter with US plug) | \$510.00 |
| BC214-1E | Six gang charger (includes AC adapter with Euro plug) | \$510.00 |
| BC226 | Connectable rapid charger (connect up to 6) and requires the BC228 AC adapter | \$75.00 |
| BC227 | Rapid charger that goes into trickle mode at a 80% charge (US Plug) | \$67.00 |
| BC228 | AC adapter for BC226 | \$70.00 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| Microphones | | |
| HM184IS | 14-pin intrinsically safe approved waterproof speaker mic (no accessory jack) | \$150.00 |
| Software & Cables | | |
| CSM85 | M85 programming software | \$100.00 |
| OPC1862 | USB programming cloning cable for radios with 14-pin connector | \$189.00 |
| RSBC225 | Battery management software for the BP-283/284/BP290. Can connect up to 30 BC-225 chargers to it. | \$250.00 |

M93D

VHF Marine Transceiver

SPECS

| | |
|------------------------|--------------------------------------------------------------------------------|
| Output Power: | 5W, 1W |
| Waterproof Rating: | IPX7 (waterproof protection) |
| Frequencies: | Tx: 156.025-157.425 MHz Rx: 156.050-163.275 MHz |
| Usable Channel Groups: | INT, USA, CAN, WX |
| Type of Emission: | FM (16K0G3E) DSC (16K0G2B) |
| Current Drain: | Tx (5W/1W output): 1.5A/700mA Rx (Inter SP/Exter SP Max audio): 450mA/259mA |
| Weight: | 11.2 oz (with BP275) |



FEATURES

- Built-in Glass D DSC with a red rear button for distress calls
- Large LCD with full dot matrix display
- Float'n flash
- Active noise cancelling
- Built-in GPS
- Integrated GNSS receiver
- Soft keys to assign 19 functions
- AquaQuake™ draining function
- Navigation function from current position to the specified waypoint
- 50 waypoint memories with alphanumeric name for navigation
- Weather channel receive with alert function
- Dual/Tri-Watch function for monitoring Ch. 16 and/or call channel
- Battery indicator shows remaining battery power in four levels
- Favorite channel function for quick access to often used functions

COMES WITH

- Antenna (FASC59V)
- Battery pack (BP285)
- Battery charger (BC220)
- AC adapter (BC123SA)
- Cigarette lighter cable (CP25H)
- Belt Clip (MB-133)
- Hand strap
- Owner's manual
- Warranty: 3 years

IPX7



M93D

VHF Marine Transceiver

Configurations

| Model | Description | MSRP |
|-------|-------------------------------------------------------|----------|
| M93D | 5 Watt VHF handheld with built-in GPS and Class D DSC | \$400.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|-------------------------------------------------------------------|----------|
| Antennas | | |
| FASC59V | Standard antenna M25/M37/M93D/M92D | \$21.00 |
| Batteries | | |
| BP285 | Li-ion 7.2V 1570mAh (typical), 1485mAh (minimum) battery for M93D | \$110.00 |
| Belt Clips | | |
| MB133 | Alligator type belt clip | \$17.00 |
| Cables | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| OPC656 | DC power cable for gang charger | \$12.00 |
| Chargers | | |
| BC123SA | AC adapter for rapid chargers; 100-240V with US style plug | \$25.00 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |
| BC214 14 | Gang charger for the M93D. Includes the BC157. | \$515.00 |
| BC220 | Rapid charger for the M93D | \$65.00 |
| Microphones | | |
| HM165 | Waterproof speaker mic for M34/M36/M93D | \$110.00 |
| HM228 | Compact IPX7 speaker mic for M93D | \$98.00 |
| Software & Cables | | |
| OPC1655 | Cloning cable adapter for M25/M36/M93D | \$47.00 |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |

VHF Fixed Mount



M200 EXPORT ONLY

VHF Marine Transceiver

SPECS

| | |
|------------------------|---------------------------------------------------|
| Output Power: | 25W, 1W (High, low) |
| Waterproof Rating: | IPX7 (submersible protection) |
| Frequencies: | Tx: 156.025–162.000MHz Rx: 156.025–162.025MHz |
| Usable Channel Groups: | USA, INT, CAN |
| Type of Emission: | FM (16K0G3E) |
| Current Drain: | Tx (at 25W output): 5.5A Rx (Max audio): 200mA |
| Weight: | 1.7lb |



FEATURES

- Dualwatch and tri-watch function
- Favorite channel function
- Built-in ultra-stable TCXO for reliable frequency stability
- Channel operation with the hand microphone
- Instant-access button for Channel 16 and call channel
- Priority scan and normal scan
- Built-in low voltage indicator
- Keypad backlighting

COMES WITH

- Hand microphone (HM164B)
- DC Power cable (OPC891A)
- Mounting bracket kit
- Owner's manual
- Warranty: 3 years

IPX7

M200 EXPORT ONLY

VHF Marine Transceiver

Configurations

| Model | Description | MSRP |
|-------|-------------------------------------------------------------|----------|
| M200 | VHF fixed mount marine radio - EXPORT ONLY NOT FCC APPROVED | \$255.00 |

Accessories

| Model | Description | MSRP |
|--------------------------|----------------------------------------------------------------------------------------------------|---------|
| Microphones | | |
| HM164B | Standard black hand mic M200/M304/M412 | \$44.00 |
| Miscellaneous | | |
| MB92 | Dust cover M304/402 series | \$10.00 |
| Mounting Hardware | | |
| MB69 | Flush mount kit for mounting controller or speaker to a panel M200/M412/M302/M402/M45/M304/M422 | \$39.00 |

M400BB

VHF Marine Transceiver

SPECS

| | |
|------------------------|------------------------------------------------------------------------|
| Output Power: | 25W, 1W |
| Waterproof Rating: | IPX7 (submersible) |
| Frequencies: | Tx: 156.025–157.425MHz Rx: 156.050–163.275MHz Ch. 70: 156.525MHz |
| Usable Channel Groups: | USA, INT, CAN, WX |
| Type of Emission: | FM (16K0G3E) DSC (16K0G2B) |
| Current Drain: | Tx (at 25W output): 5.5A Rx (Max audio): 3.5A |
| Weight: | 1.83lb (M400BB) 14.1oz (HM195B/SW) |



FEATURES

- Space-saving, two-piece configuration
- New intuitive user interface
- Active noise cancelling
- 10W loud audio, public address and foghorn
- Built-in class D DSC
- Common NMEA interface
- AIS target call with MA-500TR
- MarineCommander™ compatible
- AquaQuake™ water draining function
- Dual/tri-watch function for monitoring Ch.16 and/or call channel

COMES WITH

- Commandmic (HM195B/SW)
- DC Power cable
- Owner's manual
- Warranty: 3 years

IPX7

M400BB

VHF Marine Transceiver

Configurations

| Model | Description | MSRP |
|-----------|---------------------------------------------------------|----------|
| M400BB | Black box marine VHF fixed mount with black Command Mic | \$590.00 |
| M400BB SW | Black box marine VHF fixed mount with white Command Mic | \$590.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|------------------------------------------------------------------------------------------------------------------|------------|
| External Speakers | | |
| SP37 | 40W hailer/speaker for fixed mounts | \$66.00 |
| Microphones | | |
| HM195B | CommandMic IV with yellow backlit LCD in black | \$203.00 |
| HM195GB | CommandMic IV with white backlit LCD in black | \$203.00 |
| HM195GW | CommandMic IV with white backlit LCD in super white | \$203.00 |
| HM195SW | Command Mic IV with yellow backlit LCD in super white | \$203.00 |
| OPC1541 | 6.1m/20ft extension cable to use with the COMMANDMIC III/IV with the OPC1540. Up to 2 OPC-1541 can be connected. | \$75.00 |
| Miscellaneous | | |
| IUK2CMA | Dual COMMANDMIC adapter | \$465.00 |
| Navigation | | |
| MA500TR KIT | AIS Transponder & MXG-500S GPS receiver | \$1,065.00 |
| Software & Cables | | |
| CSM400BB | M400BB programming software. Requires OPC-478UC + OPC-980 cables. | \$125.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |
| OPC980 | Cloning cable adapter for M424/M504/M604 | \$37.00 |

M330 – M330G

VHF Marine Transceiver

SPECS

| | |
|------------------------|----------------------------------------------------------------------|
| Output Power: | 25W, 1W (High, low) |
| Waterproof Rating: | IPX7 (Waterproof protection) |
| Frequencies: | Tx: 156.025–161.600MHz Rx: 156.050–163.275MHz Ch70: 156.525MHz |
| Usable Channel Groups: | USA, CAN, INT and WX |
| Type of Emission: | FM (16K0G3E) DSC (16K0G2B) |
| Current Drain: | Tx (at 25W output): 5A Rx (AF max): 1A |
| Weight: | 730g; 1.6lb |
| Versions: | Black or super white GPS or non GPS |



FEATURES

- Built-in GPS receiver with a supplied GPS antenna (G version)
- Built-in Class D DSC with CH70 dedicated receiver
- Intuitive user interface
- Common NMEA interface for external GPS/NAV connection
- MA-500TR Class B AIS transponder compatible
- Tag scan and favorite channel functions
- Dual/tri-watch function for monitoring CH16 and/or call channel
- Priority scan function
- Display and keypad backlighting
- External speaker connection
- AquaQuake™ draining function

COMES WITH

- Hand microphone (HM235B/W)
- DC power cable
- Mounting bracket kit
- Owner's manual
- Warranty: 3 years

IPX7

M330 – M330G

VHF Marine Transceiver

Configurations

| Model | Description | MSRP |
|----------|------------------------------------------------------------------------------------------------|----------|
| M330 11 | Black marine compact VHF fixed mount | \$245.00 |
| M330 21 | White marine compact VHF fixed mount | \$245.00 |
| M330G 31 | Black marine compact VHF fixed mount with built-in GPS receiver and supplied GPS antenna | \$328.00 |
| M330G 41 | Super white marine compact VHF fixed mount with built-in GPS receiver and supplied GPS antenna | \$328.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|-----------------------------------------|------------|
| Microphones | | |
| HM235B | Black microphone for M330 | \$55.00 |
| HM235W | White microphone for M330 | \$55.00 |
| Mounting Hardware | | |
| MBF5 | Flush mount kit for M330 series | \$30.00 |
| Navigation | | |
| MA500TR KIT | AIS Transponder & MXG-500S GPS receiver | \$1,065.00 |
| Software & Cables | | |
| CSM330 | M330 programming software | \$100.00 |

M424G

VHF Marine Transceiver

SPECS

| | |
|------------------------|-------------------------------------------------------------------------------|
| Output Power: | 25W, 1W |
| Waterproof Rating: | IPX7 (submersible protection) |
| Frequencies: | Tx: 156.025–157.425MHz Rx: 156.050–163.275MHz |
| Usable Channel Groups: | USA, CAN, INT, WX |
| Type of Emission: | FM (16K0G3E) DSC (16K0G2B) |
| Current Drain: | Tx 25W output: 5.5A Rx AF Max External SP: 5.0A Internal SP: 1.5A |
| Weight: | 2.65lb |



FEATURES

- Built-in GPS
- Active noise canceling
- 10W loud audio, public address and foghorn
- Built-in class D DSC
- Optional COMMANDMICIV™ HM195B/SW or HM195GB/GSW
- Common GPS/NAV interface
- MarineCommander™ compatible
- MA-500TR AIS transponder compatible
- AquaQuake™ water draining function
- Weather channel with alert function
- Dualwatch and Tri-watch functions for monitoring Ch.16 and/or call channel
- Priority and normal scan
- Built-in attenuator for local communication

COMES WITH

- Hand microphone (HM-205)
- DC power cable
- Mounting bracket kit
- Owner's manual
- Warranty: 3 years

IPX7

M424G

VHF Marine Transceiver

Configurations

| Model | Description | MSRP |
|----------|-------------------------|----------|
| M424G 21 | Black fixed mount | \$475.00 |
| M424G 22 | Super white fixed mount | \$475.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|------------------------------------------------------------------------------------------------------------------|------------|
| External Speakers | | |
| SP24 | External speaker (4x4") for marine fixed mount radios (7W) | \$57.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| SP37 | 40W hailer/speaker for fixed mounts | \$66.00 |
| Microphones | | |
| HM195B | CommandMic IV with yellow backlit LCD in black | \$203.00 |
| HM195GB | CommandMic IV with white backlit LCD in black | \$203.00 |
| HM195GW | CommandMic IV with white backlit LCD in super white | \$203.00 |
| HM195SW | Command Mic IV with yellow backlit LCD in super white | \$203.00 |
| HM196B | Standard hand microphone for M424 and works with the M424G | \$85.00 |
| HM196SW | Standard hand microphone for M424 and works with the M424G | \$85.00 |
| HM205B | Speaker microphone M424G/M506 | \$85.00 |
| OPC1540 | 6.1m/20ft connection cable to use with the COMMANDMIC III/IV (mounting hardware required) | \$90.00 |
| OPC1541 | 6.1m/20ft extension cable to use with the COMMANDMIC III/IV with the OPC1540. Up to 2 OPC-1541 can be connected. | \$75.00 |
| Miscellaneous | | |
| IUK2CMA | Dual COMMANDMIC adapter | \$465.00 |
| Mounting Hardware | | |
| MB132 | Flush mount kit for M324/G/M424/G | \$39.00 |
| Navigation | | |
| MA500TR KIT | AIS Transponder & MXG-500S GPS receiver | \$1,065.00 |
| Software & Cables | | |
| CSM92D/M424 | Programming software for M92D & M424 | \$90.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |
| OPC980 | Cloning cable adapter for M424/M504/M604 | \$37.00 |

M506

VHF Marine Transceiver

SPECS

| | |
|--------------------|---------------------------------------------------------------------------------|
| Output Power: | 25W or 1W (at 13.8V DC) |
| Waterproof Rating: | IPX8 |
| Frequencies: | Tx: 156.025–157.425MHz Rx: 156.050–163.275MHz CH70: 156.525MHz AIS1, 2 |
| Usable Channels: | USA, INT, CAN, and WX |
| Type of Emission: | 16K0G3E (FM), 16K0G2B (DSC) |
| Current Drain: | Tx 25W output: 5.5A Rx AF Max External SP: 5.0A Internal SP: 1.5A |
| Weight | 3.09lb |



FEATURES

Integrated AIS Receiver on specific versions
NMEA 2000® and NMEA 0183 connectivity on specific versions
Last call voice recording
Active noise cancelling
25W two-way hailer
Large LCD and intuitive user interface
80dB (typical) IMD and channel selectivity
MA-500TR AIS transponder and Marine-Commander™ compatible
Compatible with COMMANDMICIV™

COMES WITH

Hand microphone (HM205B/RB)
DC power cable
Mounting bracket kit
Owner's manual
Warranty: 3 years

IPX8

M506

VHF Marine Transceiver

Configurations

| Model | Description | MSRP |
|---------|-----------------------------------------------------------------------|----------|
| M506 01 | Class D DSC marine VHF radio | \$610.00 |
| M506 11 | Class D DSC marine VHF radio with NMEA2000 | \$755.00 |
| M506 21 | Class D DSC marine VHF radio with NMEA2000 and AIS receiver | \$925.00 |
| M506 31 | Class D DSC marine VHF radio with rear mic and NMEA2000 | \$825.00 |
| M506 41 | Class D DSC marine VHF radio with rear mic, NMEA2000 and AIS receiver | \$990.00 |

Accessories

| Model | Description | MSRP |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|------------|
| INSTALLATION MARINE | | \$0.00 |
| Encryption & Internal Modules | | |
| UT112 | Digital voice scrambling unit - 32 Codes | \$160.00 |
| External Speakers | | |
| SP24 | External speaker (4x4") for marine fixed mount radios (7W) | \$57.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| SP37 | 40W hailer/speaker for fixed mounts | \$66.00 |
| Microphones | | |
| HM195B | CommandMic IV with yellow backlit LCD in black | \$203.00 |
| HM195GB | CommandMic IV with white backlit LCD in black | \$203.00 |
| HM195GW | CommandMic IV with white backlit LCD in super white | \$203.00 |
| HM195SW | Command Mic IV with yellow backlit LCD in super white | \$203.00 |
| HM205B | Speaker microphone M424G/M506 | \$85.00 |
| HM205RB | Speaker microphone for M506 rear connector & M605 | \$115.00 |
| OPC1000 | 6.1m/20ft connection cable to use with the HM126RB/RG/HM205RB/HM157 (mounting hardware req.) | \$80.00 |
| OPC1540 | 6.1m/20ft connection cable to use with the COMMANDMIC III/IV (mounting hardware required) | \$90.00 |
| OPC1541 | 6.1m/20ft extension cable to use with the COMMANDMIC III/IV with the OPC1540. Up to 2 OPC-1541 can be connected. | \$75.00 |
| OPC999 | 20ft extension cable to connect COMMANDMIC II or HM-205RB to the OPC1000 and radio. Connect up to two HM205RB with M506 or one with M605. | \$55.00 |
| Miscellaneous | | |
| UX231 | AIS receive board for M506 | \$200.00 |
| Mounting Hardware | | |
| MB132 | Flush mount kit for M324/G/M424/G | \$39.00 |
| MB75 | Flush mount kit for mounting controller or speaker to a panel for M506/M605/M802/M504/M604/MA500TR/M502/M602 | \$37.00 |
| Navigation | | |
| MA500TR KIT | AIS Transponder & MXG-500S GPS receiver | \$1,065.00 |
| Software & Cables | | |
| CSM506 | M506 programming software. Requires OPC-478UC + OPC-980 cables. | \$120.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |
| OPC980 | Cloning cable adapter for M424/M504/M604 | \$37.00 |

M506

VHF Marine Transceiver

M605

VHF Marine Transceiver

SPECS

| | |
|------------------------|----------------------------------------------------------------------------------------------------------|
| Output Power: | 25W, 1W |
| Waterproof Rating: | IPX8 |
| Frequencies: | Tx: 156.025–161.600 MHz Rx: 156.025–162.000 MHz CH70: 156.525 MHz Ais1, 2: 161.975, 162.025 MHz |
| Usable Channel Groups: | USA, CAN, INT and WX |
| Type of Emission: | 16K0G3E (FM), 16K0G2B (DSC) |
| Current drain: | Tx (at 25W output): 6.0A Rx (Maximum audio): 8.0A |
| Weight: | 3.30lb |
| Versions: | Radio without AIS receiver Radio with AIS receiver |



FEATURES

30W listen back hailer
Built-in horn/foghorn
GNSS antenna included
Configuration flexibility

- M605 + three COMMANDMICS
- M605 + two COMMANDMICS + one Command Head
- M605 + two Command Heads + one COMMANDMIC

4.3" wide color TFT LCD
Night mode ensures readability in dark places
Intuitive user interface
NMEA2000™ and NMEA0183 connectivity
Class D DSC
Active noise cancelling
Last call voice recording

COMES WITH

Radio
Hand microphone (HM-205RB)
GNSS antenna (UX-241)
PC power cable
Mounting bracket kit
Warranty: 3 years

IPX8

M605

VHF Marine Transceiver

Configurations

| Model | Description | MSRP |
|---------|-----------------------------------------------------------------|------------|
| M605 11 | VHF fixed mount with color display and rear mic connector | \$1,225.00 |
| M605 21 | VHF fixed mount with AIS, color display, and rear mic connector | \$1,530.00 |

Accessories

| Model | Description | MSRP |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Antennas | | |
| UX241 | GPS antenna | \$55.00 |
| Command Head | | |
| OPC2377 | 32.8ft extension cable for RC-M600 | \$90.00 |
| OPC2383 | 32.8ft connection cable for RC-M600 | \$90.00 |
| RCM600 | Command head for M605. Comes with OPC-2383 & HM-205RB. | \$640.00 |
| Encryption & Internal Modules | | |
| UT112 | Digital voice scrambling unit - 32 Codes | \$160.00 |
| External Speakers | | |
| SP24 | External speaker (4x4") for marine fixed mount radios (7W) | \$57.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| SP37 | 40W hailer/speaker for fixed mounts | \$66.00 |
| GPS | | |
| MXG5000S | GPS receiver | \$330.00 |
| Microphones | | |
| HM195B | CommandMic IV with yellow backlit LCD in black | \$203.00 |
| HM195GB | CommandMic IV with white backlit LCD in black | \$203.00 |
| HM195GW | CommandMic IV with white backlit LCD in super white | \$203.00 |
| HM195SW | Command Mic IV with yellow backlit LCD in super white | \$203.00 |
| HM205RB | Speaker microphone for M506 rear connector & M605 | \$115.00 |
| OPC1000 | 6.1m/20ft connection cable to use with the HM126RB/RG/HM205RB/HM157 (mounting hardware req.) | \$80.00 |
| OPC1540 | 6.1m/20ft connection cable to use with the COMMANDMIC III/IV (mounting hardware required) | \$90.00 |
| OPC1541 | 6.1m/20ft extension cable to use with the COMMANDMIC III/IV with the OPC1540. Up to 2 OPC-1541 can be connected. | \$75.00 |
| OPC2384 | 12-pin to 8-pin conversion cable to connect HM195 to M605 (1 cable required per HM195) | \$50.00 |
| OPC999 | 20ft extension cable to connect COMMANDMIC II or HM-205RB to the OPC1000 and radio. Connect up to two HM205RB with M506 or one with M605. | \$55.00 |
| Miscellaneous | | |
| UX231 | AIS receive board for M506 | \$200.00 |
| UX251 | AIS receiver unit for the M605 | \$200.00 |
| Mounting Hardware | | |
| MB75 | Flush mount kit for mounting controller or speaker to a panel for M506/M605/M802/M504/M604/MA500TR/M502/M602 | \$37.00 |

M605

VHF Marine Transceiver

Accessories

| Model | Description | MSRP |
|------------------------------|-------------------------------------------------------------------------------------------------------------|------------|
| Navigation | | |
| MA500TR KIT | AIS Transponder & MXG-500S GPS receiver | \$1,065.00 |
| Software & Cables | | |
| CSM605 | Programming software for the M605. Includes MMSI reset dongle. Requires OPC2382 + OPC478UC for programming. | \$100.00 |
| OPC2382 | Conversion cable to program M605 (links OPC478UC to M605) | \$27.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |

HM195/G

COMMANDMIC™ IV Remote-Control Microphone

HM195B/SW – Orange backlighting

HM195GB/GW – White backlighting

Total control of all communications and Class D DSC functions.

Menu system provides easy and intuitive operation.

The bottom line of the dot-matrix display shows the software key functions, which can be toggled with the left and right buttons.

The directional keypad allows you to perform various operations and settings

IPX7 Submersible rating

Superior audio performance

AquaQuake™

Size (W × H × D): 2.66 × 5.69 × 1.46 in.

Weight (approx.; except cables): 14.1 oz

Supplied accessories:

- 20ft connection cable (OPC-1540)
- Mounting hardware for OPC-1540
 - Connector cap (part#8930069360)
 - Five screws (part#8810010710)
 - C-plate (part#8930069220)
 - Mic hanger (part#8950006870)



Configurations

| Model | Description | MSRP |
|---------|-------------------------------------------------------|----------|
| HM195GB | CommandMic IV with white backlit LCD in black | \$203.00 |
| HM195GW | CommandMic IV with white backlit LCD in super white | \$203.00 |
| HM195B | CommandMic IV with yellow backlit LCD in black | \$203.00 |
| HM195SW | Command Mic IV with yellow backlit LCD in super white | \$203.00 |

Accessories

| Model | Description | MSRP |
|----------------------|------------------------------------------------------------------------------------------------------------------|----------|
| Microphones | | |
| OPC1540 | 6.1m/20ft connection cable to use with the COMMANDMIC III/IV (mounting hardware required) | \$90.00 |
| OPC1541 | 6.1m/20ft extension cable to use with the COMMANDMIC III/IV with the OPC1540. Up to 2 OPC-1541 can be connected. | \$75.00 |
| OPC2384 | 12-pin to 8-pin conversion cable to connect HM195 to M605 (1 cable required per HM195) | \$50.00 |
| Miscellaneous | | |
| IUK2CMA | Dual COMMANDMIC adapter | \$465.00 |

SSB



M802 EXPORT ONLY

HF Marine Transceiver

SPECS

| | |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output Power: | 150W, 60W, 20W PEP (Selectable) |
| Frequencies: | Tx: 1.6–2.9999, 4.0–4.9999, 6.0–6.9999, 8.0–8.9999, 12.0–13.9999, 16.0–17.9999, 18.0–19.9999, 22.0–22.9999, 25.0–27.5000MHz Rx: 0.5–29.9999MHz (continuous) |
| Channels: | 1335 (max.) (160 programmable; 249 ITU SSB duplex; 721 ITU SSB simplex; 662 ITU FSK duplex; 160 e-mail; 21ITU 4MHz simplex; 31 ITU 8MHz simplex) |
| Type of Emission: | J3E (SSB), J2B (AFSK), F1B (FSK), A1A (CW), H3E (AM*) *Rx only |
| Current Drain: | Tx (Max power): 30A Rx (Max audio): 3.0A |
| Weight: | |
| Main unit | 10.36lb |
| Controller | 1.26lb |
| Speaker | 0.81lb |

FEATURES

Standard 4x8 remote controller
Large LCD with dot-matrix characters
Easy to use in all conditions
Built-in digital selective calling
Digital signal processor advantage
150W (PEP) of powerful output
One-touch e-mail access
Automatic antenna tuner, AT140
Wide band receive coverage
Remote control mic allows you to select channels directly
Accessory RS232C port allows connection of modem, etc.
GPS input, NMEA 0183 version 3.01
A headphone jack in front of the controller



COMES WITH

Remote controller (RC25)
Separation cable (16.4ft) (OPC1106)
Hand microphone (HM135)
External speaker (SP24)
DC power cables (OPC1107A)
Owner's manual
Warranty: 2 years

M802 EXPORT ONLY

HF Marine Transceiver

Configurations

| Model | Description | MSRP |
|---------|-----------------------------------------------------------|------------|
| M802 11 | 150W marine VHF SSB with DSC (Export/Fed government only) | \$3,420.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Antenna Tuners | | |
| AT140 | HF automatic antenna tuner | \$710.00 |
| MN100 | Antenna matcher. Matches the transceiver to a dipole antenna. Covers all HF bands from 1.5 to 30MHz. Two 8m antenna wires come standard. | \$480.00 |
| MN100L | Antenna matcher. Matches the transceiver to a long wire antenna. Covers all HF bands from 1.5 to 30mhz. One 15m antenna comes standard. | \$455.00 |
| OPC1147N | Shielded control cable to connect the M802 to the AT140 (10m) | \$79.00 |
| Antennas | | |
| AH710 | Folded dipole antenna with an SO-239 connector. Covers 1.9 to 30MHz band. Length is approx 80.3ft. | \$430.00 |
| Cables | | |
| OPC1107A | M802 Main Unit DC PC | \$28.00 |
| External Speakers | | |
| SP24 | External speaker (4x4") for marine fixed mount radios (7W) | \$57.00 |
| Manuals | | |
| 94414860 | M802 service manual - CD | \$28.49 |
| 97714197 | M802 service manual hardcopy | \$82.89 |
| 98814198 | M802 OWNERS MANUAL | \$17.55 |
| Microphones | | |
| HM135 | Hand microphone; water resistant, remote function for M802 | \$91.00 |
| Mounting Hardware | | |
| M802 MMB | Mounting Bracket M802 | \$54.00 |
| MB75 | Flush mount kit for mounting controller or speaker to a panel for M506/M605/M802/M504/M604/MA500TR/M502/M602 | \$37.00 |
| Remote Mounting | | |
| M802 CHEA | An adaptor that allows 2 control cables to be hooked together for long distance between the head and the radio | \$23.00 |
| OPC1106 | Seperation cable between controller and main unit (16.4ft) for M802 | \$45.00 |
| RC25 | Remote controller head for M802 | \$441.00 |
| Software & Cables | | |
| CSM802 | M802 Program Software | \$79.00 |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |

M803

HF Marine SSB

SPECS

Frequencies:

| | |
|------|-------------------------------------------------------------------------------------------------------------------------------------|
| Tx: | 1.6–2.9999, 4.0–4.9999, 6.0–6.9999, 8.0–8.9999, 12.0–13.9999, 16.0–17.9999, 18.0–19.9999, 22.0–22.9999, 25.0–27.5000MHz |
| Rx: | 0.5–29.9999MHz (continuous) |
| DSC: | 2.1875, 4.2075, 6.3120, 8.4145, 12.5770, 16.8045MHz |

Mode:

| | |
|--------|---------------------------------------------------------------------------------------|
| Tx/Rx: | J3E (USB, LSB), J2B (AFSK), F1B (FSK), A1A (CW), H3E' (AM) (' H3E receive only) |
|--------|---------------------------------------------------------------------------------------|

| | |
|------|-----|
| DSC: | J2B |
|------|-----|

Current drain (at 13.6 V DC):

| | |
|-----------|-------------------------------------------|
| Receive: | Less than 3.0 A (Maximum audio output) |
| Transmit: | 30 A (Maximum output power) |

Weight:

| | |
|------------|-------|
| Main unit | 9.7lb |
| Controller | 1.7lb |



FEATURES

- Emergency distress button
- Intuitive user interface
- Large main dial and software keys at the bottom of the display, provide simple operation and easy access to often used functions
- 4.3" wide color TFT display
- Night mode display
- Integrated GPS receiver includes GPS, GLONASS, and SBAS function
- Two minute instant replay function
- Advance RF direct sampling system
- HF e-mail ready
- IPX7 waterproof remote controller
- NMEA 0183 version 4.10 data input/output (4800-38400bps)

COMES WITH

- Remote controller
- PC power cable
- Remote control cable
- GPS antenna (16.4ft)
- Microphone (HM214H)
- Mounting bracket kits
- ACC plugs & spare fuses
- Owner's manual
- Warranty: 2 years

M803

HF Marine SSB

Configurations

| Model | Description | MSRP |
|-------|--------------------------------------------------------|------------|
| M803 | 150W advanced SSB with Class E DSC MF/HF certification | \$3,850.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Antenna Tuners | | |
| AT140 | HF automatic antenna tuner | \$710.00 |
| MN100 | Antenna matcher. Matches the transceiver to a dipole antenna. Covers all HF bands from 1.5 to 30MHz. Two 8m antenna wires come standard. | \$480.00 |
| MN100L | Antenna matcher. Matches the transceiver to a long wire antenna. Covers all HF bands from 1.5 to 30mhz. One 15m antenna comes standard. | \$455.00 |
| OPC1465 | 32.8ft shielded control cable from AT140 to M803 | \$86.00 |
| Antennas | | |
| AH710 | Folded dipole antenna with an SO-239 connector. Covers 1.9 to 30MHz band. Length is approx 80.3ft. | \$430.00 |
| External Speakers | | |
| SP24 | External speaker (4x4") for marine fixed mount radios (7W) | \$57.00 |
| Microphones | | |
| HM214H | Hand microphone for GM800 & M803 | \$95.00 |
| Mounting Hardware | | |
| MB75 | Flush mount kit for mounting controller or speaker to a panel for M506/M605/M802/M504/M604/MA500TR/M502/M602 | \$37.00 |
| Software & Cables | | |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |

M700PRO EXPORT ONLY

SSB Radio Telephone

SPECS

| | |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Output Power: | 150W, 60W, 20W PEP (Selectable) |
| Frequencies: | |
| Receive | 500kHz-29.99MHz |
| Transmit | 1.6-2.9999, 4.0-4.9999, 6.0-6.9999, 8.0-8.9999, 12.0-13.9999, 16.0-17.9999, 18.0-19.9999, 22.0-22.9999, 25.0- 27.5000MHz |
| Channels: | 150 (max.; 3 groups of 50 channels each) |
| Type of Emission: | J3E (USB), LSB, H3T (AM), J2B (AFKSK), F1B (FSK), R3E, A1A (CW) |
| Weight: | 17.2lb |



FEATURES

Rugged 150 watt transceiver
150 memory channels
Selectable dual/tri watch
PC Programmable
Large LCD display

COMES WITH

Hand microphone (HM180)
Mounting bracket (SP24)
DC power cables (OPC568)
Owner's manual
Warranty: 2 years

M700PRO EXPORT ONLY

SSB Radio Telephone

Configurations

| Model | Description | MSRP |
|----------|------------------------------------|------------|
| M700PROE | 150W SSB transceiver - EXPORT ONLY | \$2,175.00 |

Accessories

| Model | Description | MSRP |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Antenna Tuners | | |
| AT130 | Auto antenna tuner M710/IC-78 | \$690.00 |
| AT140 | HF automatic antenna tuner | \$710.00 |
| MN100 | Antenna matcher. Matches the transceiver to a dipole antenna. Covers all HF bands from 1.5 to 30MHz. Two 8m antenna wires come standard. | \$480.00 |
| MN100L | Antenna matcher. Matches the transceiver to a long wire antenna. Covers all HF bands from 1.5 to 30mhz. One 15m antenna comes standard. | \$455.00 |
| OPC566 | Cable to connect the AT130 to the M710 (30 ft.) | \$168.00 |
| Antennas | | |
| AH710 | Folded dipole antenna with an SO-239 connector. Covers 1.9 to 30MHz band. Length is approx 80.3ft. | \$430.00 |
| Cables | | |
| OPC568 | M710/M700PRO Power Cord | \$50.00 |
| Manuals | | |
| 97712480 | M700PRO service manual hardcopy | \$0.00 |
| 98812145 | M700PRO owner's manual | \$0.00 |
| Microphones | | |
| HM180 | Microphone for M710/M700PRO | \$106.00 |

GMDSS



GM1600

Survival Craft 2-Way VHF Radio

SPECS

| | |
|-------------------|-----------------------------------------------------------|
| Output Power: | 2W, 1W |
| Frequencies: | 156.300-156.875MHz Rx: 156.050-163.275MHz |
| Type of Emission: | FM (16K0G3E) |
| Current Drain: | Tx 2W output: 1.0A 1W output: 0.7A Rx AF max: 200mA |
| Weight: | 13.6oz (with BP234) |



FEATURES

Meets the strict environmental requirements for survival craft radio
High capacity Lithium battery, BP234, has superior low temperature
Large keypad with positive button action
Wide viewing angle LCD display
One touch access to Channel 16 and call channel
Highly visible yellow colored body
Bright LED indicator on the top of panel
Optional VOX headset for on-board use

COMES WITH

GM1600 21K:
Battery pack (BP252)
Battery pack (BP234)
Battery charger (BC173)
AC adapter (BC147SA)
Belt clip (MB103Y)
Antenna (FAS61V)
Neck strap
Owner's manual
Warranty: 3 years

GM1600:
Battery pack (BP234)
Belt clip (MB103Y)
Antenna (FAS61V)
Neck strap
Owner's manual
Warranty: 3 years

GM1600

Survival Craft 2-Way VHF Radio

Configurations

| Model | Description | MSRP |
|------------|-------------------------------------------------------------------------------------------------------------------------|------------|
| GM1600 | GMDSS VHF handheld for survival crafts; radio plus BP-234 lithium battery | \$1,000.00 |
| GM1600 21K | GMDSS VHF handheld for survival crafts; includes li-ion battery/charger plus the BP-234 battery. Surface shipping only. | \$1,090.00 |

Accessories

| Model | Description | MSRP |
|-----------------------|-------------------------------------------------------------------------------------------------|----------|
| Antennas | | |
| FAS61V | Standard antenna for GM1600 | \$17.00 |
| Batteries | | |
| BP224 | 7.2V 750mAh NiCd battery - GM1600/M32/M2A/M90 | \$63.00 |
| BP234 | 9.0V 3300mAh lithium battery pack GM1600. FedEx ground shipping only. No shipments to HI or AK. | \$250.00 |
| BP252 | 7.4V 980mAh Li-Ion battery (M36/M34/GM1600) | \$72.00 |
| Belt Clips | | |
| MB103Y | Yellow alligator belt clip for the GM1600 | \$14.00 |
| MB86 | Swivel belt clip that screws into back of radio | \$12.00 |
| MB96N | Swivel belt hanger to use with standard belt clip | \$37.00 |
| Cables | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| OPC656 | DC power cable for gang charger | \$12.00 |
| Carrying Cases | | |
| NCP1 | Nylon chest pack | \$50.00 |
| Chargers | | |
| AD109 | Adapter cup fits the BC119N/BC121N and charges the BP224 (M90/GM1600) | \$18.00 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |
| BC145SA 31 | AC adapter for BC119N; 100-240V with US style plug | \$25.00 |
| BC147SA | AC adapter for trickle chargers; 100-240V with a US style plug | \$15.00 |
| BC147SE 15 | AC adapter for trickle chargers; 230V with a Euro style plug | \$16.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC158 01 | Desktop trickle charger (GM1600 & M90 with BP224) | \$18.00 |
| BC173 01 | Desktop trickle charger (M34/M36/GM1600/BP224) requires BC-147S | \$28.00 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| Headsets | | |
| HS94 | Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392 | \$25.00 |
| HS95 | Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392 | \$215.00 |
| HS97 | Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392 | \$42.00 |
| OPC1392 | Headset adapter to use with HS94/95/97 for the M73/M72/GM1600/M90 | \$75.00 |
| Manuals | | |
| 94414927 | GM1600 CD service manual | \$0.00 |
| 97715149 | GM1600 service manual hardcopy | \$0.00 |

GM1600

Survival Craft 2-Way VHF Radio

Accessories

| Model | Description | MSRP |
|------------------------------|------------------------------------------------------------|----------|
| 98815160 | GM1600 owner's manual | \$0.00 |
| Microphones | | |
| HM167 | Lightweight IPX8 waterproof speaker mic M73/GM1600/M92/M72 | \$120.00 |
| Software & Cables | | |
| CSGM1600 | GM1600 programming software | \$65.00 |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |

GM600 EXPORT ONLY

VHF GMDSS Marine Transceiver

SPECS

| | |
|--------------------|--------------------------------------------------------------------|
| Output Power: | 25W 1W |
| Waterproof Rating: | IPX7 (submersible construction) |
| Frequencies: | Tx: 156.025–161.600MHz Rx: 156.025–162.000MHz DSC 156.525MHz |
| Usable Channel: | INT channels |
| Type of Emissions: | 16K0G3E(FM) 16K0G2B(DSC) |
| Current Drain: | Tx (at 25W output): 3.3A Rx (Max audio): 2.0A |
| Weight (approx): | 3.5lb |



FEATURES

- Class A DSC
- Dedicated distress button
- Meets MED “wheel mark” requirements
- Meets ITU-R M.493-13 DSC
- 4.3” wide color TFT LCD
- Night mode ensures readability in dark places
- Intuitive user interface
- 10W audio when plugged into an external speaker
- Optional DC-DC converter

COMES WITH

- Radio
- Hand Microphone (HM-214V)
- DC power cable
- Mounting bracket kit
- Warranty: 3 years

IPX7

GM600 EXPORT ONLY

VHF GMDSS Marine Transceiver

Configurations

| Model | Description | MSRP |
|-------|-----------------------|------------|
| GM600 | VHF GMDSS fixed mount | \$2,040.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|---------------------|----------|
| <i>Power Supplies</i> | | |
| PS310 01 | 24V DC-DC converter | \$350.00 |
| PS310 02 | 12V DC-DC converter | \$350.00 |

GM800 EXPORT ONLY

VHF GMDSS Marine Transceiver

SPECS

| | |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Output Power: | RF: 125W 85W Audio: 4W 2W |
| Waterproof Rating: | IPX7 (waterproofing for controller) |
| Frequencies: | Tx: 0.5–29.9999MHz (ITU marine channels) Rx: 156.025–162.000MHz (continuously) DSC 2.1875, 4.2075, 6.3120, 8.4145, 12.5770, 16.8045MHz |
| Type of Emissions: | Tx/Rx: J3E(USB/LSB*), H3E* (AM), J2B* (AFSK), F1B (FSK), A1A* (CW) *Receive only. DSC: F1B |
| Current Drain: | Tx Maximum power: Less than 20A (at 1.1kHz and 1.7kHz two tones) Rx Maximum audio: Less than 3A |
| Weight (approx): | Main unit 8.6kg, Controller |

FEATURES

- Class A DSC
- Dedicated distress button
- Meets MED “wheel mark” requirements
- Meets ITU-R M.493-13 DSC
- Dedicated DSC watch-keeping receiver continuously scans and six distress channels in rotation
- Store up to 100 MMSI members for DSC calls with a 10=character ID name
- 4.3” wide viewing color display
- Almost 180 degree wide viewing angle with high resolution characters
- function icons
- Night display mode
- Remote distress alarm
- Printer connector (IEEE-1284)
- Built-in 24V DC-DC converter



COMES WITH

- Radio
- Handset (HS-98)
- Mounting bracket kit
- Warranty: 3 years

IPX7

GM800 EXPORT ONLY

VHF GMDSS Marine Transceiver

Configurations

| Model | Description | MSRP |
|-------|--------------------------------------------------|------------|
| GM800 | GMDSS MF/HF radio with Class A DSC - Export only | \$8,500.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|---------------------------------------------------|----------|
| <i>Antenna Tuners</i> | | |
| AT141 | Export HC automatic antenna tuner - special order | \$775.00 |

AIS/Radar



MA500TR

Class B AIS Transponder

SPECS

| | |
|----------------------------|----------------------------------------------------------------------------------------|
| Output Power: | 2W |
| Frequencies: | 161.975, 162.025, 156.025-162.025MHz |
| Type of Emission: | 16K0GXW (GMSK) |
| Weight: | 2.2lb |
| DATA Input Interface: | IEC 61162-1:2000 (4,800bps), IEC 61162-2 (38,400bps) |
| Sentence Format: | RMC, GGA, GSA, GSV, DTM, GNS, GLL, GBS and VTG |
| Input Level at 2V Applied: | Less than 2mA |
| DATA Output Interface: | |
| NMEA1, NMEA3: | IEC 61162-1:2000 (4,800bps), IEC 61162-2 (38,400bps) |
| NMEA2: | IEC 61162-2 (38,000bps) |
| Sentence Format: | |
| NMEA1: | DSC, RMC, GGA, VTG, GSA, GSV, GBS, DTM, DSE, GNS and GLL |
| NMEA2: | VDM, VDO, ALR, ACA, ACS, TXT, RMC, GGA, GNS, GLL, VTG, GSA, GSV, GBS, and DTM |
| NMEA3: | RMC, GGA, VTG, GSA, GSV, GBS, DTM, GNS and GLL |
| Output Level: | 5V, 40Ma max. |



FEATURES

Class B AIS transponder for Non-SOLAS vessels, receives dual AIS channels (Ch. 87B and Ch. 88B) simultaneously and receives both Class A and Class B AIS information

Simple operation

CPA and TCPA for collision-risk management

Individual DSC call

100 Waypoints memory

Safety-related message

3-line NMEA input/output

GPS receiver with SBAS function

Full dot-matrix display with adjustable backlight and contrast

IPX7 waterproof protection

Self diagnosis function

Flush mount installation with optional MB-75

Slow warm function

COMES WITH

Mounting bracket kits

GPS receiver with 32.8ft cable (MXG5000)

DC power cable

NMEA connector cable

Owner's manual

Warranty: 3 years non-waterproof

MA500TR

Class B AIS Transponder

Configurations

| Model | Description | MSRP |
|-------------|-----------------------------------------|------------|
| MA500TR KIT | AIS Transponder & MXG-500S GPS receiver | \$1,065.00 |

Accessories

| Model | Description | MSRP |
|--------------------------|--------------------------------------------------------------------------------------------------------------|----------|
| GPS | | |
| MXG5000S | GPS receiver | \$330.00 |
| Manuals | | |
| 94415578 | MA500TR CD service manual | \$28.97 |
| 97715574 | MA500TR service manual - hardcopy | \$33.14 |
| 98815579 | MXA500TR owner's manual | \$31.39 |
| Mounting Hardware | | |
| MB75 | Flush mount kit for mounting controller or speaker to a panel for M506/M605/M802/M504/M604/MA500TR/M502/M602 | \$37.00 |

MR-1010R2

Marine Radar

SPECS

| | |
|-------------------|-----------------------------|
| Display Type: | 10.4-inch Color TFT LCD |
| Resolution: | 480 x 640 dots |
| Type of Emission: | 16K0G3E (FM) |
| Minimum Range: | 25m; 82ft (at 1/8 NM range) |
| Maximum Range: | 36 NM |



FEATURES

- Connect to a DSC radio to use the DSC information function
- Connect to an external AIS device to use the AIS overlay function
- Large color display with an approximate 176° viewing angle
- Color RFT LCD (480x640 dots) display offers bright vivid echos with 16 steps gradient intensity
- Easily adjust the screen color (day, night and user settings) with the "BRILL" button
- Language setting is selectable from English, Indonesian, Korean, Spanish, Thai and Vietnamese
- Simplified ARPA function helps prevent collision risk with other vessels or objects
- TLL (Target Latitude Longitude) function
- True trail function
- 10.2-42V wide DC input to prevent over voltage damage
- Two user programmable alarm zones
- Optional video output unit

MR-1010R2

Marine Radar

Configurations

| Model | Description | MSRP |
|----------|------------------------------|------------|
| MR1010R2 | Marine radar, 4kW, color LCD | \$3,550.00 |

Accessories

| Model | Description | MSRP |
|----------------------|------------------------------------|----------|
| Miscellaneous | | |
| UX252 | Analog TCG output for the MR1010R2 | \$280.00 |

Discontinued Radios



M36

The M36 VHF Marine Transceivers are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories

SPECS

| | |
|------------------------|-------------------------------------------------------------------------------------------------------------------|
| Output Power: | 6W, 1W w/BP252 2W, 1W w/BP251 alkaline cells |
| Waterproof Rating: | IP57 (dust-protection and waterproof protection) |
| Frequencies: | Tx: 156.025-157.425MHz Rx: 156.050-163.275MHz |
| Usable Channel Groups: | INT, USA, CAN, WX |
| Type of Emission: | FM (16K0G3E) |
| Current Drain: | Tx (at 6W output): 1.5A Rx (at AF max): Internal speaker 300mA External speaker 200mA Power save 10mA |
| Weight: | 10.4oz (with BP252) |



FEATURES

- Clear voice + voice boost
- Floats
- AquaQuake draining function
- LOUD button
- Noise cancelling microphone
- Automatic volume adjustment
- Low power consumption
- Large buttons and slim dimensions
- Dual/Tri-watch functions
- 4-step battery life indicator
- Weather channel with weather alert
- Auto scan function
- Instant access to Ch 16 or Ch 9

COMES WITH

- Battery pack (BP252)
- Battery charger (BC173)
- AC adapter (BC147)
- Belt clip (MB109)
- Antenna (FASc58V)
- Hand strap
- Owner's manual
- Warranty: 3 years



IP57
SUBMERSIBLE &
DUST PROTECTED

Accessories

| Model | Description | MSRP |
|------------------------------|-----------------------------------------------------------------|----------|
| Antennas | | |
| FASC58V | Standard antenna M24/M34/M36/M85 | \$16.00 |
| Batteries | | |
| BP251 | Alkaline case for M34/M36 (5 x AAA) | \$38.00 |
| BP252 | 7.4V 980mAh Li-Ion battery (M36/M34/GM1600) | \$72.00 |
| Belt Clips | | |
| MB109 | Belt clip for the M34/M36/M92D | \$10.00 |
| Cables | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| Carrying Cases | | |
| NCF30G LOOP | Nylon carrying case with a loop for the F30G/40G & M36 radios | \$25.00 |
| NCP1 | Nylon chest pack | \$50.00 |
| Chargers | | |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |
| BC145SA 31 | AC adapter for BC119N; 100-240V with US style plug | \$25.00 |
| BC147SA | AC adapter for trickle chargers; 100-240V with a US style plug | \$15.00 |
| BC147SE 15 | AC adapter for trickle chargers; 230V with a Euro style plug | \$16.00 |
| BC162 01 | Rapid charger for M34/M36. Includes BC123SA with US plug. | \$60.00 |
| BC173 01 | Desktop trickle charger (M34/M36/GM1600/BP224) requires BC-147S | \$28.00 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| Manuals | | |
| 94416500 | M36 CD service manual | \$0.00 |
| 97715432 | M36 service manual hardcopy | \$0.00 |
| Microphones | | |
| HM165 | Waterproof speaker mic for M34/M36/M93D | \$110.00 |
| Software & Cables | | |
| CSM36 | M36 Programming Software | \$79.00 |
| OPC1655 | Cloning cable adapter for M25/M36/M93D | \$47.00 |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |

M24

The M24 VHF Marine Transceivers are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

| Model | Description | MSRP |
|------------------------------|--------------------------------------------------------------------------------|----------|
| Antennas | | |
| FASC58V | Standard antenna M24/M34/M36/M85 | \$16.00 |
| Batteries | | |
| BP266 | Li-ion 1500mAh battery for the M24 | \$60.00 |
| Belt Clips | | |
| MB124 | Alligator type belt clip | \$12.00 |
| Cables | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| Chargers | | |
| AD123 02 | Adapter cup for BC119N for M24 | \$23.00 |
| BC119N 02 | Rapid charger requiring radio specific adapter cup; 100-240V w/Euro style plug | \$76.00 |
| BC145SA 31 | AC adapter for BC119N; 100-240V with US style plug | \$25.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |
| BC199SE 13 | Wall charger for the M24; 100-240V with a Euro style plug | \$15.00 |
| CP24 | Cigarette lighter cable that charges the charger in a vehicle | \$28.00 |
| Manuals | | |
| 94415605 | M24 CD service manual | \$0.00 |
| 97715604 | M24 service manual - hardcopy | \$0.00 |
| 98815603 | M24 owner's manual | \$0.00 |
| Software & Cables | | |
| CSM24 | M24 programming software | \$72.00 |
| OPC2091 | Cloning cable adapter for M24 | \$35.00 |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |

M72

The M72 VHF Marine Transceivers are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories

Accessories

| Model | Description | MSRP |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------|
| Antennas | | |
| FAS64V | Standard antenna for the M72/M73 (4 17/32" or 115mm) | \$17.00 |
| Batteries | | |
| BP245H | 7.4V 2000mAh Li-Ion battery for M72/M73 | \$115.00 |
| Belt Clips | | |
| MB103 | Alligator belt clip | \$12.50 |
| MB86 | Swivel belt clip that screws into back of radio | \$12.00 |
| MB96N | Swivel belt hanger to use with standard belt clip | \$37.00 |
| Cables | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| OPC656 | DC power cable for gang charger | \$12.00 |
| Chargers | | |
| AD114 | M72 adapter cup for BC119N/BC121N | \$0.00 |
| BC119N 02 | Rapid charger requiring radio specific adapter cup; 100-240V w/Euro style plug | \$76.00 |
| BC145SA 31 | AC adapter for BC119N; 100-240V with US style plug | \$25.00 |
| BC147SA | AC adapter for trickle chargers; 100-240V with a US style plug | \$15.00 |
| BC147SE 15 | AC adapter for trickle chargers; 230V with a Euro style plug | \$16.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |
| BC197 32 | Six unit charger for radios with the BP245N Li-Ion battery (includes AC adapter and cups installed); 100-240V with US style plug | \$515.00 |
| BC210 | Rapid charger for the BP-245N includes AC adapter with US plug | \$80.00 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| Headsets | | |
| HS94 | Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392 | \$25.00 |
| HS95 | Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392 | \$215.00 |
| HS97 | Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392 | \$42.00 |
| OPC1392 | Headset adapter to use with HS94/95/97 for the M73/M72/GM1600/M90 | \$75.00 |
| Manuals | | |
| 94415064 | M72 CD service manual | \$0.00 |
| 97715066 | M72 service manual - hardcopy | \$0.00 |
| 98815033 | M72 owner's manual | \$0.00 |
| Microphones | | |
| HM167 | Lightweight IPX8 waterproof speaker mic M73/GM1600/M92/M72 | \$120.00 |
| HM202 | Compact IPX7 waterproof speaker mic M73/M72 | \$130.00 |
| Software & Cables | | |
| CSM72 | M72 Programming Software | \$65.00 |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |

Accessories

| Model | Description | MSRP |
|--------|----------------------------------------|---------|
| OPC922 | Cloning cable adapter for M72/M73/M92D | \$65.00 |

M92D

The M92D VHF Marine Transceivers are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

| Model | Description | MSRP |
|------------------------------|----------------------------------------------------------------|----------|
| Antennas | | |
| FASC59V | Standard antenna M25/M37/M93D/M92D | \$21.00 |
| Batteries | | |
| BP275 | 7.4V 1500mAh Li-ion battery for M92D | \$110.00 |
| Belt Clips | | |
| MB109 | Belt clip for the M34/M36/M92D | \$10.00 |
| Cables | | |
| OPC515L | DC power cable for single unit rapid chargers | \$26.00 |
| OPC656 | DC power cable for gang charger | \$12.00 |
| Chargers | | |
| BC123SA | AC adapter for rapid chargers; 100-240V with US style plug | \$25.00 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |
| BC147SA | AC adapter for trickle chargers; 100-240V with a US style plug | \$15.00 |
| BC147SE 15 | AC adapter for trickle chargers; 230V with a Euro style plug | \$16.00 |
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| CP25H | Cigarette lighter cable to use with BC-210 rapid charger | \$27.00 |
| Microphones | | |
| HM167 | Lightweight IPX8 waterproof speaker mic M73/GM1600/M92/M72 | \$120.00 |
| Software & Cables | | |
| CSM92D/M424 | Programming software for M92D & M424 | \$90.00 |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |
| OPC922 | Cloning cable adapter for M72/M73/M92D | \$65.00 |

M412

The M412 VHF Marine Transceivers are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

| Model | Description | MSRP |
|------------------------------|----------------------------------------------------------------------------------------------------|------------|
| Cables | | |
| OPC891A | M504/M422 power cord | \$12.00 |
| External Speakers | | |
| SP24 | External speaker (4x4") for marine fixed mount radios (7W) | \$57.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| Manuals | | |
| 94415576 | M412 CD service manual | \$0.00 |
| 97715573 | M412 service manual hardcopy | \$0.00 |
| 98815577 | M412 owner's manual | \$0.00 |
| Microphones | | |
| HM164B | Standard black hand mic M200/M304/M412 | \$44.00 |
| Mounting Hardware | | |
| M422 MMB | Black mounting bracket for M412/M422 | \$27.00 |
| M422SW MMB | Mounting bracket super white M412/M422 | \$27.00 |
| MB69 | Flush mount kit for mounting controller or speaker to a panel M200/M412/M302/M402/M45/M304/M422 | \$39.00 |
| Navigation | | |
| MA500TR KIT | AIS Transponder & MXG-500S GPS receiver | \$1,065.00 |
| Software & Cables | | |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |

M504

The M504 VHF Marine Transceivers are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

| Model | Description | MSRP |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Cables | | |
| OPC891A | M504/M422 power cord | \$12.00 |
| Encryption & Internal Modules | | |
| UT112 | Digital voice scrambling unit - 32 Codes | \$160.00 |
| External Speakers | | |
| SP24 | External speaker (4x4") for marine fixed mount radios (7W) | \$57.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| Manuals | | |
| 94415078 | M504 CD service manual | \$22.67 |
| 97715079 | M504 service manual - hardcopy | \$49.21 |
| 98816438 | M504A owner's manual | \$17.12 |
| Microphones | | |
| HM126B | Standard black front mount mic for M504 | \$83.00 |
| HM126RB | Standard black rear mount mic for M504/M604 | \$100.00 |
| OPC1000 | 6.1m/20ft connection cable to use with the HM126RB/RG/HM205RB/HM157 (mounting hardware req.) | \$80.00 |
| OPC1540 | 6.1m/20ft connection cable to use with the COMMANDMIC III/IV (mounting hardware required) | \$90.00 |
| OPC1541 | 6.1m/20ft extension cable to use with the COMMANDMIC III/IV with the OPC1540. Up to 2 OPC-1541 can be connected. | \$75.00 |
| OPC1542 | Extension cable for rear panel mic connections. Use with the HM-126RG/RG microphone. | \$0.00 |
| OPC999 | 20ft extension cable to connect COMMANDMIC II or HM-205RB to the OPC1000 and radio. Connect up to two HM205RB with M506 or one with M605. | \$55.00 |
| Mounting Hardware | | |
| M504B MMB | Black mounting bracket for M504/M502 | \$0.00 |
| M504G MMB | Gray mounting bracket for M504/M502 | \$0.00 |
| MB75 | Flush mount kit for mounting controller or speaker to a panel for M506/M605/M802/M504/M604/MA500TR/M502/M602 | \$37.00 |
| Software & Cables | | |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |
| OPC980 | Cloning cable adapter for M424/M504/M604 | \$37.00 |

M604

The M604 VHF Marine Transceivers are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Configurations

| Model | Description | MSRP |
|---------|-----------------------------------------------------------------|------------|
| M605 11 | VHF fixed mount with color display and rear mic connector | \$1,225.00 |
| M605 21 | VHF fixed mount with AIS, color display, and rear mic connector | \$1,530.00 |

Accessories

| Model | Description | MSRP |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------|
| Antennas | | |
| UX241 | GPS antenna | \$55.00 |
| Cables | | |
| OPC1174 | M602/M604 DC power cord | \$14.00 |
| Command Head | | |
| OPC2377 | 32.8ft extension cable for RC-M600 | \$90.00 |
| OPC2383 | 32.8ft connection cable for RC-M600 | \$90.00 |
| RCM600 | Command head for M605. Comes with OPC-2383 & HM-205RB. | \$640.00 |
| Encryption & Internal Modules | | |
| UT112 | Digital voice scrambling unit - 32 Codes | \$160.00 |
| External Speakers | | |
| SP24 | External speaker (4x4") for marine fixed mount radios (7W) | \$57.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| SP37 | 40W hailer/speaker for fixed mounts | \$66.00 |
| GPS | | |
| MXG5000S | GPS receiver | \$330.00 |
| Manuals | | |
| 94415181 | M604 CD service manual | \$22.66 |
| 97715182 | M604 service manual hardcopy | \$50.57 |
| 98816439 | M604A owner's manual | \$17.23 |
| Microphones | | |
| HM126RB | Standard black rear mount mic for M504/M604 | \$100.00 |
| HM195B | CommandMic IV with yellow backlit LCD in black | \$203.00 |
| HM195GB | CommandMic IV with white backlit LCD in black | \$203.00 |
| HM195GW | CommandMic IV with white backlit LCD in super white | \$203.00 |
| HM195SW | Command Mic IV with yellow backlit LCD in super white | \$203.00 |
| HM205RB | Speaker microphone for M506 rear connector & M605 | \$115.00 |
| OPC1000 | 6.1m/20ft connection cable to use with the HM126RB/RG/HM205RB/HM157 (mounting hardware req.) | \$80.00 |
| OPC1540 | 6.1m/20ft connection cable to use with the COMMANDMIC III/IV (mounting hardware required) | \$90.00 |
| OPC1541 | 6.1m/20ft extension cable to use with the COMMANDMIC III/IV with the OPC1540. Up to 2 OPC-1541 can be connected. | \$75.00 |
| OPC2384 | 12-pin to 8-pin conversion cable to connect HM195 to M605 (1 cable required per HM195) | \$50.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|------------|
| OPC999 | 20ft extension cable to connect COMMANDMIC II or HM-205RB to the OPC1000 and radio. Connect up to two HM205RB with M506 or one with M605. | \$55.00 |
| Miscellaneous | | |
| UX231 | AIS receive board for M506 | \$200.00 |
| UX251 | AIS receiver unit for the M605 | \$200.00 |
| Mounting Hardware | | |
| M602 MMB | Black Mounting Bracke M602 01 | \$29.00 |
| M604G MMB | Gray mounting bracket for M604 | \$0.00 |
| MB75 | Flush mount kit for mounting controller or speaker to a panel for M506/M605/M802/M504/M604/MA500TR/M502/M602 | \$37.00 |
| Navigation | | |
| MA500TR KIT | AIS Transponder & MXG-500S GPS receiver | \$1,065.00 |
| Software & Cables | | |
| CSM604A | M604A programming software | \$82.00 |
| CSM605 | Programming software for the M605. Includes MMSI reset dongle. Requires OPC2382 + OPC478UC for programming. | \$100.00 |
| OPC2382 | Conversion cable to program M605 (links OPC478UC to M605) | \$27.00 |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |
| OPC980 | Cloning cable adapter for M424/M504/M604 | \$37.00 |



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Network Product Catalog

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Product



IP501H

LTE Portable

SPECS

| | | |
|-------------------------|----------|---------------------------------------------|
| Network: | 4G bands | LTE B2, B4, B5, B17 |
| | 3G bands | W-CDMA B2, B5 |
| AF output: | | Internal 400mW (16Ω) External 200mW (8Ω) |
| Voice Codec: | | G.726 (32kbps) |
| Mil Spec: | | 810C, D, E, F |
| Waterproof: | | IP67/55/54 |
| Dimensions (W x H x D): | | 2.3 x 3.7 x 1.3 in. |
| Weight: | | 8.5 oz |
| Warranty: | | 2 Year |

IP501H requires airtime service on the LTE-Connect system



FEATURES

Full duplex communication. Users can talk and receive at the same time.
Multiple users can initiate calls. No requirements to check or wait for channel availability.
Group calls with three or more people
Built-in Bluetooth
Voice message recording
Individual, Group, Talkgroup, Multiplex Talkgroup and All calls
Emergency button, Lone Worker and Man Down functions
Vibration alert function notifies of incoming call
Text message reception and preprogrammed message transmission
Up to 500 memory address book (including Group, Individual, Talkgroup and Telephone lists)
OTAP – performed by Icom America

SUPPLIED ACCESSORIES

Antenna
SIM card (custom for IP501H)
Li-Ion battery (BP-272)
Belt clip (MB-135)
Wrist strap
Owner's manual



Configurations

| Model | Description | MSRP |
|--------|------------------------------------------------------------------------------------------------|----------|
| IP501H | Portable LTE radio with SIM card installed. Monthly airtime fee will apply with activated SIM. | \$610.00 |

Accessories

| Model | Description | MSRP |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------|
| EXTWARR811 | 1 year extended warranty | \$65.00 |
| EXTWARR812 | 2 year extended warranty | \$93.00 |
| EXTWARR813 | 3 year extended warranty | \$130.00 |
| Batteries | | |
| BP272 | Li-ion 7.4V 2000mAh (typical capacity), 1880mAh (minimum value) | \$139.00 |
| Belt Clips | | |
| MB135 | Alligator type belt clip | \$10.00 |
| Cables | | |
| OPC2144 | Right angle plug adapter cable to plug old straight pin connector headsets into (required to use with OPC478 when programming radios) | \$35.00 |
| OPC254L | Power supply cable; 10-14V DC required for high power output | \$20.00 |
| Carrying Cases | | |
| NC100H | Nylon case with a clip for the IP100H | \$25.00 |
| Chargers | | |
| BC123SA | AC adapter for rapid chargers; 100-240V with US style plug | \$25.00 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |
| BC157S | AC adapter for gang chargers; 100-240V with US style plug | \$150.00 |
| BC157SE | AC adapter for gang chargers; 100-240V with Euro style plug | \$130.00 |
| BC202IP2 | Rapid charger (includes BC-123SA AC adapter with US plug) | \$70.00 |
| BC211 | Rapid rate 6-unit charger - IP100H | \$510.00 |
| BC211E | Rapid rate 6-unit charger 230V European plug - IP100H | \$510.00 |
| BC218 | Car charger with bluetooth (requires CP22 or CP23L) | \$210.00 |
| BC218 CCK | Car charger kit includes 1 each: BC218, CP23L, MBA7, MBF1, HM215 & SP35 | \$490.00 |
| CP22 | Cigarette lighter cable with DC-DC converter for use with the BC179 for the A14/S. 12-24V DC input available. | \$69.00 |

Accessories

| Model | Description | MSRP |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------|----------|
| CP23L | 12V cigarette lighter cable for use with rapid chargers | \$38.00 |
| External Speakers | | |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |
| Headsets | | |
| HS102 | Over the head headset with earphone. Allows for full-duplex operation and requires the OPC-2359. | \$200.00 |
| HS94 | Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392 | \$25.00 |
| HS95 | Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392 | \$215.00 |
| HS97 | Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392 | \$42.00 |
| OPC2006LS | Adapter plug with VOX and no PTT to to use with the HS94/95/97 | \$35.00 |
| OPC2328 | Adapter plug with PTT to to use with the HS94/95/97 | \$100.00 |
| OPC2359 | PTT switch cable | \$80.00 |
| VS3 | Compact clippable PTT Bluetooth with earphone via 3.5mm jack for all-day operation | \$149.00 |
| Microphones | | |
| HM183LS | Waterproof compact speaker microphone (2pin connector) | \$120.00 |
| HM186LS | Compact speaker microphone with earphone jack (2 pin connector) | \$65.00 |
| HM215 | Speaker microphone for the BC-218 car charger | \$165.00 |
| IAHM600 | Heavy duty Bluetooth speaker microphone with loud audio, water/dust resistant & 40+ hours of talk time (charger included) | \$215.00 |
| Miscellaneous | | |
| SIM CARD | SIM card for U.S. LTE networks | \$9.00 |
| VESP1 | LTE speakerphone unit | \$550.00 |
| Mounting Hardware | | |
| MBA7 | Bracket adapter for the BC-218 | \$40.00 |
| Remote Mounting | | |
| MBF1 | Remote head mount. Adhesive pad and adjustable pivot points holds it securely. Requires MBA5, MBA7 or MBA8. | \$85.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|--------------------------------------------------------------------------------------|------------|
| Software & Cables | | |
| CSIP501H | IP501H programming software | \$60.00 |
| IACS1120G | OziTracker LTE tracking software, includes 20 assets | \$1,325.00 |
| IACS1121G | Each additional asset for OziTracker LTE tracking software | \$75.00 |
| IACS1122G | Additional copy of OziTracker LTE software for the same project | \$725.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |
| PROG-MF | Icom to program your land mobile mainframe with provided icf file or 1 to 2 channels | \$0.00 |
| Wire Kits | | |
| HM153LS | Microphone with 2.5mm earphone combination (right angle 2-pin connector) | \$130.00 |
| HM166LS | Earphone microphone with two pin right angle connector | \$99.00 |

IP501M

LTE Mobile

SPECS

| | | |
|-------------------------|--------------------------------------------------------------|-----------------|
| Network: | 4G bands | LTE B2, B4, B12 |
| | 3G bands | W-CDMA B2, B5 |
| Audio output power: | More than 4W (External SP, at 10% distortion into a 4Ω load) | |
| Voice Codec: | G.726 | |
| Mil Spec: | 810C, D, E, F, G | |
| Dimensions (W x H x D): | 4.9 x 1.1 x 6.1 in (Approximate) | |
| Weight: | 1.9 lb (Main unit, approximate) | |
| Warranty: | 2 Year | |

IP501M requires airtime service on the LTE-Connect System



FEATURES

Full-Duplex communication provides multiple users simultaneous conversations
Built-in Bluetooth and GPS
Noise Canceling function (TX only) for clear audio in noisy environments
Priority Interrupt Calling can break into an on-going call for an important message
Text Message function of up to 32 characters
Emergency Call & Lone Worker functions

SUPPLIED ACCESSORIES

Microphone (HM-241)
LTE antenna x 2
GPS antenna
DC power cable
Mounting bracket kit
Microphone hanger
Owner's manual



Configurations

| Model | Description | MSRP |
|--------|----------------------------------------------------------------------------------------------|----------|
| IP501M | Mobile LTE radio with SIM card installed. Monthly airtime fee will apply with activated SIM. | \$750.00 |

Accessories

| Model | Description | MSRP |
|------------|--------------------------|----------|
| EXTWARR811 | 1 year extended warranty | \$65.00 |
| EXTWARR812 | 2 year extended warranty | \$93.00 |
| EXTWARR813 | 3 year extended warranty | \$130.00 |

Cables

| | | |
|---------|---------------------------------------|----------|
| OPC2407 | D-SUB 25-pin connector for the IP501M | \$100.00 |
|---------|---------------------------------------|----------|

External Speakers

| | | |
|------|----------------------------------------------------------|----------|
| SP30 | 20W large external speaker | \$110.00 |
| SP35 | 5W external speaker with 3.5mm speaker jack and 2m cable | \$60.00 |

Headsets

| | | |
|-----|------------------------------------------------------------------------------------|----------|
| VS3 | Compact clippable PTT Bluetooth with earphone via 3.5mm jack for all-day operation | \$149.00 |
|-----|------------------------------------------------------------------------------------|----------|

Microphones

| | | |
|---------|---------------------------------------------------------------------------------------------------------------------------|----------|
| HM230HB | CommandMic with 10-key (IP55) for IP501M | \$330.00 |
| HM241 | Mobile microphone with emergency button for IP501M (IP54) | \$115.00 |
| IAHM600 | Heavy duty Bluetooth speaker microphone with loud audio, water/dust resistant & 40+ hours of talk time (charger included) | \$215.00 |
| SM28 | Desktop microphone for IP501M | \$100.00 |

Miscellaneous

| | | |
|----------|--------------------------------|--------|
| SIM CARD | SIM card for U.S. LTE networks | \$9.00 |
|----------|--------------------------------|--------|

Software & Cables

| | | |
|-----------|------------------------------------------------------------------|------------|
| CSIP501H | IP501H programming software | \$60.00 |
| IACS1120G | OziTracker LTE tracking software, includes 20 assets | \$1,325.00 |
| IACS1121G | Each additional asset for OziTracker LTE tracking software | \$75.00 |
| IACS1122G | Additional copy of OziTracker LTE software for the same project | \$725.00 |
| OPC1122U | PC to mobile radio programming cloning cable with USB connector. | \$99.00 |

IP100H

WLAN Portable Radio

SPECS

| | |
|-------------------------|---------------------------------------------------------------|
| Frequencies: | 2412-2472 MHz (13 channels) 5180-5700MHz (19 channels) |
| WLAN standard: | IEEE 802.11 a/b/g/n |
| Operating time: | Over 20 hours (with BP-271) |
| RF output: | Less than 10mW/MHz |
| Voice codec: | G.711 μ -law (64kbps) |
| AF output: | Internal 400mW (16 Ω) External 200mW (8 Ω) |
| Dimensions (W x H x D): | 2 9/23 x 3 47/64 x 1 3/64 in. |
| Weight: | 7.2 oz |
| Waterproof: | IPX7 waterproof rating |
| Warranty: | 1 Year |

Software: [Free download](#)



FEATURES

License-free system
IP1000C controller connects to the wireless network

- IPC1000C versions allows up to 20 or 100 radios per network

Add the IP100FS for an IP-based PC-dispatcher
Compact size, and lightweight
Supports simplex or full duplex with HM-153LS or HM-166LS connected
Digital sound quality
High security with encrypted communication
Beep/Vibration function for all call types
OPC-2006LS with HS94/95/97 are applicable for VOX and simplex operation
Supports WEP/WPA/WPA2

SUPPLIED ACCESSORIES

Li-Ion battery (BP-271)
Belt clip (MB-127)
Wrist strap
Short stub antenna
Antenna cover (used for internal antenna)
Owner's manual

IPX7

Configurations

| Model | Description | MSRP |
|-------------|---------------------------------------------|------------|
| IP1000C 100 | Manages up to 100 radios in a network | \$1,665.00 |
| IP100FS | IP based PC-dispatcher | \$1,650.00 |
| IP100H | IP license-free radio for wireless networks | \$455.00 |

Accessories

| Model | Description | MSRP |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------|
| EXTWARR611 | 1 year extended warranty | \$40.00 |
| EXTWARR612 | 2 year extended warranty | \$70.00 |
| EXTWARR613 | 3 year extended warranty | \$110.00 |
| Antennas | | |
| 3310004800 | IP100H antenna | \$29.99 |
| Batteries | | |
| BP271 | Li-ion 7.4V 1200mAh (typical capacity), 1150mAh (minimum value) | \$99.00 |
| BP272 | Li-ion 7.4V 2000mAh (typical capacity), 1880mAh (minimum value) | \$139.00 |
| BP273 | Battery case that holds 3 AA alkaline batteries | \$68.00 |
| Belt Clips | | |
| MB127 | Alligator belt clip | \$18.00 |
| Cables | | |
| OPC2144 | Right angle plug adapter cable to plug old straight pin connector headsets into (required to use with OPC478 when programming radios) | \$35.00 |
| Carrying Cases | | |
| NC100H | Nylon case with a clip for the IP100H | \$25.00 |
| Chargers | | |
| BC123SA | AC adapter for rapid chargers; 100-240V with US style plug | \$25.00 |
| BC123SE | AC adapter for rapid chargers; 100-240V with Euro style plug | \$26.00 |
| BC202IP2 | Rapid charger (includes BC-123SA AC adapter with US plug) | \$70.00 |
| BC207S | 12V / 3.5A AC adapter for VEPG3/IP1000C | \$85.00 |
| BC211 | Rapid rate 6-unit charger - IP100H | \$510.00 |

Accessories

| Model | Description | MSRP |
|------------------------------|--------------------------------------------------------------------------------------------------|------------|
| BC211E | Rapid rate 6-unit charger 230V European plug - IP100H | \$510.00 |
| Headsets | | |
| HS102 | Over the head headset with earphone. Allows for full-duplex operation and requires the OPC-2359. | \$200.00 |
| HS94 | Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392 | \$25.00 |
| HS95 | Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392 | \$215.00 |
| HS97 | Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392 | \$42.00 |
| OPC2006LS | Adapter plug with VOX and no PTT to to use with the HS94/95/97 | \$35.00 |
| OPC2328 | Adapter plug with PTT to to use with the HS94/95/97 | \$100.00 |
| OPC2359 | PTT switch cable | \$80.00 |
| Microphones | | |
| HM152 | Standard microphone for low/mid range mobile radios | \$44.00 |
| HM183LS | Waterproof compact speaker microphone (2pin connector) | \$120.00 |
| HM186LS | Compact speaker microphone with earphone jack (2 pin connector) | \$65.00 |
| SM26 | Desktop microphone with monitor switch for mobile radios | \$90.00 |
| Mounting Hardware | | |
| MB VP3 | Rack mounting shelf for VEPG3/IP1000C | \$100.00 |
| MB99A | Wall mounting bracket VEPG3/IP1000C | \$65.00 |
| Network | | |
| AP90M | Wireless LAN access point (no AC adapter included) | \$0.00 |
| IP100FS | IP based PC-dispatcher | \$1,650.00 |
| RSAP3 | Access point management software | \$1,500.00 |
| Remote Communication | | |
| CT23 01 | PTT microphone adapter to use SM-26 or HM-152 with a PC. Requires BC-147S. | \$120.00 |
| Software & Cables | | |
| OPC478 | RS-232S programming cable (2-pin connector handhelds) | \$60.00 |
| OPC478UC | USB programming cable (2-pin connectors handhelds) | \$70.00 |

Accessories

| Model | Description | MSRP |
|------------------|--------------------------------------------------------------------------|----------|
| Wire Kits | | |
| HM153LS | Microphone with 2.5mm earphone combination (right angle 2-pin connector) | \$130.00 |
| HM166LS | Earphone microphone with two pin right angle connector | \$99.00 |
| SP26 | Tube earphone with 2.5mm plug to use with HM-163MC/HM-153LS | \$25.00 |
| SP28 | Earhook type earphone with 2.5mm plug to use with HM-163MC/HM-153LS | \$25.00 |

SAT100

Satellite PTT Radio

SPECS

Operating temperature range:

-30°C to +60°C; -22°F to +140°F

Audio output power:

Internal speaker: 1500mW typical (At 5% distortion into an 8Ω load)

External speaker: 1000mW typical (At 5% distortion into an 8Ω load)

Battery life (Approximate): 14.5 hours (TX: RX: standby = 5 : 5 : 90)

Talkgroup: 15 groups (Maximum)

Antenna connector: SMA

Weight: 12.7 oz, 360g

Mil Specs: 810C, D, E, F, G

Waterproof rating: IP67



FEATURES

Two-way radio system using the Iridium® satellite network

One-to-Many Communications

Real-Time Low-Latency Communication

Operates 100% of the globe

Built-in emergency key

Secure communications with AES encryption

Short Data Message function

Voice recording function

Talkgroup Scan

Priority Interrupt Calling

Vibration Alert

Built-in Bluetooth® and GPS Receiver

Compatible with other Iridium® PTT devices

COMES WITH

Battery pack (BP-300)

Belt Clip (MBB-5)

Antenna (FA-S102U)

Desktop charger (BC-241)

AC adapter (BC-242)

Configurations

| Model | Description | MSRP |
|--------|---------------------------------------------------------|------------|
| SAT100 | Satellite PTT radio using the Iridium satellite network | \$1,600.00 |

Accessories

| Model | Description | MSRP |
|--------------------|------------------------------------------------------------------------------------|----------|
| Antennas | | |
| AH40 | Antenna (4.9ft) for in-vehicle and in-building use | \$245.00 |
| FAS102U | Antenna for SAT100 | \$210.00 |
| Batteries | | |
| BP300 | 7.2V 2350mAh li-ion battery for the SAT100 | \$150.00 |
| Cables | | |
| OPC2412 | Connection cable between VEPG4 & SAT100 | \$115.00 |
| Chargers | | |
| BC214NSAT | Six unit charger for SAT100 | \$450.00 |
| BC241 | Rapid charger with multi-plug AC adapter for SAT100 | \$70.00 |
| BC247 | Charger cradle for SAT100 for in-vehicle and in-building use | \$415.00 |
| Headsets | | |
| HS94 | Earpiece headset; use with VS/OPC2004/OPC2006/OPC1392 | \$25.00 |
| HS95 | Headset with boom mic; use with VS/OPC2004/OPC2006/OPC1392 | \$215.00 |
| HS97 | Earphone with throat mic headset; use with VS/OPC2004/OPC2006/OPC1392 | \$42.00 |
| VS3 | Compact clippable PTT Bluetooth with earphone via 3.5mm jack for all-day operation | \$149.00 |
| VS5MC | VOX/PTT switch cable to use with headset (HS94/95/97) | \$150.00 |
| Microphones | | |
| HM222 | IP68 waterproof speaker microphone w/3.5mm accessory jack (14-pin connector) | \$145.00 |
| SP27 | Acoustic tube earphone with a clip (3.5mm) | \$35.00 |
| SP29 | Earhook type earphone with 3.5mm plug | \$25.00 |
| SP40 | Earphone with 3.5mm plug | \$30.00 |
| SP-AT1 | Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape) | \$31.50 |

Accessories

| Model | Description | MSRP |
|----------------------|---------------------------------------------------------------------|----------|
| Miscellaneous | | |
| AD118 | 14-pin ACC adapter to use with Hirose plug accessories | \$80.00 |
| AD135 | 3.5mm earphone jack adapter that plugs into a 14-pin connector | \$42.00 |
| Wire Kits | | |
| EH15B | Earphone with 2.5mm plug to use with HM-163MC | \$30.00 |
| HM163MC | Lapel mic with 2.5mm earphone jack | \$200.00 |
| SP26 | Tube earphone with 2.5mm plug to use with HM-163MC/HM-153LS | \$25.00 |
| SP28 | Earhook type earphone with 2.5mm plug to use with HM-163MC/HM-153LS | \$25.00 |
| SP32 | Tube adapter for use with the EH-15B | \$30.00 |

VE-PG4

RoIP Gateway

SPECS

| | |
|-----------------------------|----------------------------------------------------------------------|
| Power Supply: | 12V DC +/- 10%, max 4A 100-240V AC (with the supplied AC adaptor) |
| Weight: | 4lb (Main unit, approximate) |
| Interface | |
| LAN/WAN: | RJ-45 type x 1 (Auto MDI/MDI-X) |
| LAN: | RJ-45 type x 1 (Auto MDI/MDI-X) |
| USB Host Interface: | USB 3.0 Standard A receptacles x3 |
| USB Console Interface: | USB 2.0 mini B receptacles x 1 |
| Network - 4G bands: | LET B2, B4, B12 (FCC) |
| Network - 3G bands: | W-CDMA B2, B5 (FCC) |
| External - Port Connectors: | 2.54 mm (0.1 in) pitch quick connector (4 terminals x3) x4 |
| External – Audio input: | -10 dBs/-40 dBs selectable Input impedance 10kΩ unbalance |
| External – Audio output: | -0 dBs/-20 dBs selectable 600Ω load unbalance/8Ω 1W speaker |
| External – Control input: | Low voltage contacts (3.3V DC/1mA)/Voltage input (3-16V) |
| External – Control output: | No voltage contacts (30V/100mA) /Open collector (3-16V 10mA) |



FEATURES

Bridge almost any modern communications system to Icom's universe of Network products and more:

- LTE PTT Products
- Wireless LAN radio products
- Icom IDAS conventional and trunking systems
- Analog radio systems
- P25 systems
- DMR systems
- SIP phone

Built-in controller for IP100H

Call recording to a USB drive

Microphone connection for base operation

Router functions with VPN tunnel

Management Features:

- SYSLOG and SNMP
- Telnet and SSH
- Ping Test and Traceroute Test
- Abnormal condition monitoring, such as LAN port link-down and SIP server registration error
- Administrator password
- SNTP server
- Security slot

WARRANTY

1-Year

Comes With

Antennas

Antenna case cable (1.9ft)

AC adapter (BC-236)

Quick connectors

MULTITRUNK

IDAS
ICOM DIGITAL ADVANCED SYSTEM

Configurations

| Model | Description | MSRP |
|-------|-----------------------------------------------------------------------------------------------------------------------|------------|
| VEPG4 | RoIP gateway that bridges land mobile radio systems. Deactivated SIM included. Airtime fees apply when SIM activated. | \$3,000.00 |

Accessories

| Model | Description | MSRP |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------|------------|
| Cables | | |
| OPC2273 | 5m audio connection cable between the VEPG3 and the M604A (Waterproof 8-pin connector). | \$150.00 |
| OPC2275 | 5m audio connection cable between the VEPG3 and the F5061/D series or A120 (RJ-45 modular plug connector with speaker plug). | \$150.00 |
| OPC2276 | 5m audio connection cable between the VEPG3 and the HM152/SM26 (Modular jack connector with speaker jack) | \$215.00 |
| OPC2389 | Cable connecting serial device w/RS232 | \$85.00 |
| OPC2390 | Cable connecting VEPG4 to FR5000/6000 | \$200.00 |
| Microphones | | |
| SM26 | Desktop microphone with monitor switch for mobile radios | \$90.00 |
| Miscellaneous | | |
| SIM CARD | SIM card for U.S. LTE networks | \$9.00 |
| Remote Communication | | |
| RCFS10 | Remote Communicator software + CT-24 (digital voice converter unit - each IDAS system requires 1 CT-24) | \$1,820.00 |



Network Product Catalog

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