



Procurement No: RA05-18

Radio Communications/Emergency Response & Mobile
Interoperable Equipment

Provided by:

Icom America Inc.
12421 Willows Road NE
Kirkland, WA 98034



Proposal Date: January 8, 2018



First in Communications

Executive Summary

January 8, 2018

Mr. William Burton
Houston-Galveston Area Council of Governments
Cooperative Purchasing Program
3555 Timmons, Suite 120
Houston, TX 77027

RE: RA05-18
Radio Communication/Emergency Response & Mobile Interoperability Equipment

Dear Mr. Burton

Thank you for the opportunity to present this proposal for the above-mentioned solicitation.

We understand your needs to be:

1. Select a vendor or vendor team to support your two-way radio communication and equipment needs.
2. Acquire a fixed discount for duration of contract.
3. Obtain reliable nationwide sales, service and support for all eligible End-users.
4. Partner with Vendors who encourage sales through small businesses, veteran-owned, and Minority and Woman Owned Business Enterprise.
5. Receive consistent purchase order acknowledgement and fulfillment.
6. Take timely product deliveries.

For complete details of our proposal please review the enclosed proposal.

Selected Area(s):

To meet the operational and financial needs of The HGAC within the Two-way Radio Equipment, Icom America proposes products with the following product groups:

Manufacturer	Product Group
ICOM	Amateur Products
ICOM	Avionics Products
ICOM	Marine Products
ICOM	Land Mobile Products
ICOM	Systems Products
ICOM	WLAN Products

As a recent HGAC Contract Holder (ie RA05-12, RA05-15), we have built many relationships with State & Local Agencies over the past decade and hope to continue our support of these valued Clients.

Icom's "*More for Less*" philosophy has given our HGAC End-user's the ability to really stretch their dollar, yet not inhibit the importance of a reliable and durable communications product. To further our support, we are pleased to share that we also offer a nationwide network of Authorized Dealers that are fully-trained and knowledgeable with the products we are offering.

As outlined the attached proposal, supported by each of the Icom America's Retail Product & Price Catalogs and our HGAC Form E Price Sheet(s), you will find these product group discounts, if honored with an award, would be fixed through the duration of the contract. Prices offered also include surface shipping & handling!

In addition, to the fair & reasonable prices offered; Icom America will carry on to offer excellent support services in Sales, Service, System Design, System Integration & Technical Support.

We trust you will continue to find Icom America to be great partner for the HGAC and look forward to your favorable reply to this opportunity.

If you have any questions please feel free to contact me at 425.450.6092 or salescontracts@icomamerica.com.

Warmest Regards,
ICOM AMERICA INC.



Kristina Pickering
Government Sales Program Manager

/kep
enclosures

FORM A - OFFEROR IDENTIFICATION & AUTHORIZED SIGNATORY
(DO NOT handwritten this Form. Information must be typed in.)

Invitation No.: RA05-18

Invitation Title: Radio Communication/Emergency Response & Mobile Interoperability Equipment

Offeror Company: Icom America Inc.

(Legal name of business which will appear on contract, if awarded)

Offeror Status: ☒ Manufacturer

☐ Dealer/Distributor

☐ Other

Response Type(1): ☐ Single Offeror Acting
Alone Or As Lead

☐ Multiple Offerors
Acting Jointly

Contract Signatory(2): Hiroshi Nakaoka

Title: President

Mailing Address(3): 12421 Willows Road NE Kirkland Washington 98034

Street/PO Box

City

State & Zip

Physical Address: 12421 Willows Road NE Kirkland Washington 98034

Street

City

State & Zip

Phone: 425-450-6092

Fax: 425-450-6063

Email Address: salescontracts@icomamerica.com

Federal Tax ID No.: 91-1083924

Web Page URL: www.icomamerica.com

(1) If Joint Offering, all parties must submit a signed Form A. A contract will be offered to each.

(2) Person who will sign final contract documents if an award is made.

(3) Address to which final contract documents would be sent for signature.

Member Contact Information

Contact Person(4): Government Customer Service

Title:

Mailing Address: 12421 Willows Road NE Kirkland Washington 98034

Street/PO Box

City

State & Zip

Physical Address: 12421 Willows Road NE Kirkland Washington 98034

Street

City

State & Zip

Toll Free Phone: 800-306-1403 (Local 425-450-6090)

Fax: 425-450-6063

Email Address: govsales@icomamerica.com

(4) Person who End Users will contact for product information and to get pricing quotes.

The Signatory below, on behalf of Offeror:

- Acknowledges having thoroughly reviewed the Invitation;
- Attests to having the authority to sign this response and commit Offeror to honor all requirements;
- Makes, under penalty of perjury, all required Offeror Certifications as detailed in General Terms;
- Certifies that all information provided in this Response is true and correct.

Signature: 

Title: President

Printed Name: Hiroshi Nakaoka

Date: 1/5/2018

FORM B - HISTORICALLY UNDERUTILIZED BUSINESS ENTERPRISES

Procurement No.: RA05-18

Title: Radio Communication/Emergency Response & Mobile Interoperability Equipment**Offeror:** Icom America Inc.

Most, if not all, of the Members of HGACBuy are subject to various requirements relative to purchasing goods and services from Historically Underutilized Business Enterprises (HUBs)(See Note 1). These requirements are promulgated by federal and state governmental authorities, and include measureable criteria such as 'percentage of total dollars spent directed to HUBs', 'number of HUB contractors used', 'HUB subcontractors employed by primary contractors', etc. These requirements are generally formalized in goal oriented programs.

HGACBuy is committed to promoting full and equal business opportunities for HUB contractors, and to assisting Cooperative Purchasing Program (COOP) Members in meeting mandated HUB goals. In that regard, Contractor shall make a good faith effort to use the services of Certified/Listed (See Note 2) HUBs whenever possible.

As part of a good faith effort, Contractor agrees to work with and assist HGACBuy Members in meeting HUB targets and goals, as may be required by any rules, processes or programs they might have in place. Such assistance may include such things as compliance with reporting requirements, provision of documentation, consideration of 'Certified/Listed' subcontractors, provision of documented evidence that an active participatory role for a HUB entity was considered in a procurement transaction, etc.

Note 1: There are many designations other than "HUB" used across the country within various jurisdictions. Examples include, terms such as Disadvantaged Business Enterprise (DBE), Minority Owned Business Enterprise (MBE), Woman Owned Business Enterprise (WBE), Small Disadvantaged Business (SDB), Small, Woman or Minority-owned Business (SWAM), etc. Regardless, of the formal designation, the overall objective of the relevant programs is basically the same, i.e. to insure that disadvantaged and underutilized members of the business community receive a fair share of public spending. The term HUB as used herein shall be understood to encompass all such programs/business enterprises, no matter what terminology is used by the Member.

Note 2: The terms "Certified" and "Listed" as used in conjunction with HUB programs relate to the process of HUB qualification review. Jurisdictions usually require that companies claiming HUB status be reviewed and confirmed as meeting certain minimum requirements to claim that status, and that the review and confirmation process be carried out by certain designated entities. They are then "Certified" or "Listed" by having their name included on an official listing published by the Certifying or Listing Authority.

Accepted and Agreed By:

X



(Hiroshi Nakaoka)

Title: President

Date: 1/5/2018

HUB Status Of Offeror☐ Offeror is a HUB, as detailed below.☐ Offeror is not a HUB.

Designation(s):

☐ HUB☐ DBE☐ MBE☐ WBE☐ Other

Certifying/Listing Authority(s):

Subcontracts

On a separate sheet, list any subcontractors that would be employed in providing products or services related to this procurement. Include subcontractor name, designation (HUB, DBE, etc.) and certifying/listing authority.

☐ Subcontractor List attached.☐ No Subcontractors will be used.

FORM C - RESPONSE CHECKLIST

Procurement No.: RA05-18

Title: Radio Communication/Emergency Response & Mobile Interoperability Equipment

Offeror: Icom America Inc.

This *FORM* is provided to help insure that all required Response elements have been completed and included, or certified as being available upon request. **Responses that do not comply with all requirements may be considered non-compliant.** Offeror's signatory must review each item below, and certify by initialing in the space to the right.

This Response Includes:	Init.
1 An "Original" hard copy of the COMPLETE submission, including all required <i>FORMS</i> , plus one COMPLETE copy, each in a separate hard-sided 3-ring binder.	
2 A copy of the COMPLETE submission, including all required <i>FORMS</i> , in electronic format (CD, DVD, flash drive). Forms D & E must be provided in the original excel format.	
3 An originally signed Form A from all entities who are party to this submission and who should be offered a contract if this submission is successful.	
4 A Form W-9 - Request for Taxpayer Identification Number and Certification shall be provided from each entity that has submitted a Form A for this submission (See Attachment)	
5 Form CIQ (Conflict of Interest Questionnaire) completed and signed and provided from each entity that has submitted a Form A for this submission (See Attachment)	
6 Form 1295 Form (Certificate of Interested Parties) must be filled out electronically with the Texas Ethics Commissions's online filing application, printed out, signed, notarized, and provided from each entity that has submitted a Form A for this submission (See Attachment)	
7 Marketing Plan (Form I) - Bidder shall provide a written narrative explaining in some detail activities that will be undertaken to actively market and promote an H-GAC contract to local government and non-profit End Users.	
House Bill HB 89 Verification Form - completed and signed and provided from each entity that has submitted a Form A for this submission (See Attachment)	
8 The required list of References .	
9 Details of " Service Organization ", including locations, hours, personnel and parts/service availability. (Applies to hard goods only.)	
10 Complete Warranty Documentation for all Products offered.	
11 The manufacturer's latest Specification Documents detailing standard features, operating characteristics, etc., for all products offered.	
12 If the Non-Resident Reciprocal Bid Act applies, a copy of your state statute and a determination of the status of Texas bidders/proposers in your home state. If not applicable, indicate "N/A"	N/A
13 A Bid/Proposal Bond , or Cashier's Check in the amount of \$3000 . (A percentage bond is NOT acceptable.)	N/A

FORM H - PRODUCT SUMMARY			Invitation No.: RA05-18
Offeror Name: Icom America Inc.			
A completed copy of this form must be provided with Proposal. On the table below, for each RA05-18 product code priced (Form D) , proposer shall provide a short summary detailing the items, equipment and/or services being offered for that specific product code. Proposer shall specify the product code, manufacturer and product category along with the product summary below.			
Product Code (ex. HA)	Manufacturer (ex. Harris Communications)	Product Category (ex. Radio Communication Equipment & Services)	Product Summary (Quick summary of your offering for this proposal)
HA	Icom	Radio Communications Equipment & Services	Amateur Radios, Receivers, Aviation Radios, Marine Radios, Land Mobile Radios Analog and Digital (P25 Phase 1, Phase 2 and IDAS NXDN) Mobiles, Portables, Base Stations, Repeaters, Trunking systems, Control Stations, Virtual radio software, IP linked systems, Multitrunk systems, WLAN Radios and Accessories for Icom radios.

FORM I - MARKETING PLAN	Invitation No.: RA05-18
Offeror Name:	Icom America Inc.
<p>Bidder shall provide a written narrative explaining in some detail actiities that will be undertaken to actively market and promote an H-GAC contract to local government and non-profit End Users.</p> <p>In addition to our internal training for both our Outside Sales Team, Inside Sales & Customer Service Groups, we also offer an incentives to our Authorized Dealer Network. Although we do not presently have "resellers" under our contract, we do offer a program for them to "support" the marketing of direct sales efforts to HGAC eligible Endusers. Over the past couple of years, the interest in his contract (ie RA05-15) over NASPO or even GSA has really picked up. We also have been capturing some interest via our corporate website, where we have a HGAC Support WebPage (linked to HGAC). That way if someone is looking on our site, they may also discover <u>this</u> Nationwide Contract in their "available contracts" listing. (http://www.icomamerica.com/en/governmentsales/contracts/hgac/). Lastly, our Sales Teams are asking more questions about it and how they can help their Client's either use or get signed up for future purchases. With the enhanced exposure and their growing confidence in how to explain the HGAC Contract, our Teams are also sharing about this important procurement tool at Trade Shows and Events Nationwide. Its been a great trend, which we hope to continue!</p>	

Request for Taxpayer Identification Number and Certification

Give Form to the
requester. Do not
send to the IRS.

Print or type
See Specific Instructions on page 2.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank. Icom America Inc.	
2 Business name/disregarded entity name, if different from above	
3 Check appropriate box for federal tax classification; check only one of the following seven boxes: <input type="checkbox"/> Individual/sole proprietor or single-member LLC <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ Note. For a single-member LLC that is disregarded, do not check LLC; check the appropriate box in the line above for the tax classification of the single-member owner. <input type="checkbox"/> Other (see instructions) ▶	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) _____ Exemption from FATCA reporting code (if any) _____ <small>(Applies to accounts maintained outside the U.S.)</small>
5 Address (number, street, and apt. or suite no.) 12421 Willows Road NE	Requester's name and address (optional)
6 City, state, and ZIP code Kirkland, WA 98034	
7 List account number(s) here (optional)	

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Note. If the account is in more than one name, see the instructions for line 1 and the chart on page 4 for guidelines on whose number to enter.

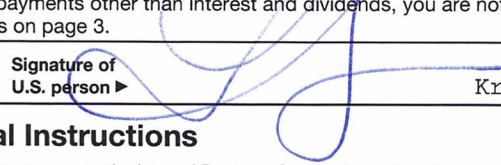
Social security number								
			-					
or								
Employer identification number								
9	1	-	1	0	8	3	9	2 4

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.

Sign Here	Signature of U.S. person ▶ 	Date ▶ 1/5/2018
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General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. Information about developments affecting Form W-9 (such as legislation enacted after we release it) is at www.irs.gov/fw9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following:

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)

- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
 - Form 1099-C (canceled debt)
 - Form 1099-A (acquisition or abandonment of secured property)
- Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding? on page 2.

By signing the filled-out form, you:

- Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
- Certify that you are not subject to backup withholding, or
- Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and
- Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See *What is FATCA reporting?* on page 2 for further information.

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor doing business with local governmental entity

FORM CIQ

This questionnaire reflects changes made to the law by H.B. 23, 84th Leg., Regular Session.

This questionnaire is being filed in accordance with Chapter 176, Local Government Code, by a vendor who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the vendor meets requirements under Section 176.006(a).

By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the vendor becomes aware of facts that require the statement to be filed. See Section 176.006(a-1), Local Government Code.

A vendor commits an offense if the vendor knowingly violates Section 176.006, Local Government Code. An offense under this section is a misdemeanor.

OFFICE USE ONLY

Date Received

1 Name of vendor who has a business relationship with local governmental entity.

Icom America Inc.

2 ☐ Check this box if you are filing an update to a previously filed questionnaire. (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date on which you became aware that the originally filed questionnaire was incomplete or inaccurate.)

3 Name of local government officer about whom the information is being disclosed.

Mr. Bill Burton for HGAC RA05-18

Name of Officer

4 Describe each employment or other business relationship with the local government officer, or a family member of the officer, as described by Section 176.003(a)(2)(A). Also describe any family relationship with the local government officer. Complete subparts A and B for each employment or business relationship described. Attach additional pages to this Form CIQ as necessary.

A. Is the local government officer or a family member of the officer receiving or likely to receive taxable income, other than investment income, from the vendor?

☐ Yes

☒ No


B. Is the vendor receiving or likely to receive taxable income, other than investment income, from or at the direction of the local government officer or a family member of the officer AND the taxable income is not received from the local governmental entity?

☐ Yes

☒ No

5 Describe each employment or business relationship that the vendor named in Section 1 maintains with a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership interest of one percent or more.

6 ☐ Check this box if the vendor has given the local government officer or a family member of the officer one or more gifts as described in Section 176.003(a)(2)(B), excluding gifts described in Section 176.003(a-1).

7 
Signature of vendor doing business with the governmental entity

01/04/18

Date

CERTIFICATE OF INTERESTED PARTIES

FORM 1295

1 of 1

Complete Nos. 1 - 4 and 6 if there are interested parties.
Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.

OFFICE USE ONLY CERTIFICATION OF FILING

1 Name of business entity filing form, and the city, state and country of the business entity's place of business.

Icom America Inc.
Kirkland, WA United States

Certificate Number:
2018-298771

Date Filed:
01/04/2018

Date Acknowledged:

2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.

HGACBuy

3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the services, goods, or other property to be provided under the contract.

HGACBuy RFP No. RA05-18
Two-way Radios: Amateur, Avionics, Marine, Land Mobile, WLAN, Receivers, Mobiles, Portables, Base Stations, Repeaters, Control Stations, Trunking & MultiTrunk Systems, etc.

4	Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
			Controlling	Intermediary
	Icom, Inc.	Osaka Hirano-ku Japan	X	

5 Check only if there is NO Interested Party.

☐

6 UNSWORN DECLARATION

My name is Hiroshi Nakaoka, and my date of birth is May 27, 1961.

My address is 12421 Willows Road NE, Kirkland, WA, 98034, USA.
(street) (city) (state) (zip code) (country)

I declare under penalty of perjury that the foregoing is true and correct.

Executed in King County, State of Washington, on the 5th day of January, 20 18.
State of Washington (month) (year)

My Appointment Expires

Gloria Rasmussen
Notary - Gloria Rasmussen

X

Hiroshi Nakaoka

Hiroshi Nakaoka, President

Signature of authorized agent of contracting business entity
(Declarant)

House Bill 89 Verification Form

Prohibition on Contracts with Companies Boycotting Israel

The 85th Texas Legislature approved new legislation, effective Sept. 1, 2017, which amends Texas Local Government Code Section 1. Subtitle F, Title 10, Government Code by adding Chapter 2270 which states that a governmental entity may not enter into a contract with a company for goods or services unless the contract contains a written verification from the company that it:

- 1) does not boycott Israel; and
- 2) will not boycott Israel during the term of the contract

Pursuant to Section 2270.001, Texas Government Code:

1. "Boycott Israel" means refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations specifically with Israel, or with a person or entity doing business in Israel or in an Israeli-controlled territory, but does not include an action made for ordinary business purposes; and
2. "Company" means a for-profit sole proprietorship, organization, association, corporation, partnership, joint venture, limited partnership, limited liability partnership, or any limited liability company, including a wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate of those entities or business associations that exist to make a profit.

I, (authorized official) Hiroshi Nakaoka, do hereby depose and verify the truthfulness and accuracy of the contents of the statements submitted on this certification under the provisions of Subtitle F, Title 10, Government Code Chapter 2270 and that the company named below:

- 1) does not boycott Israel currently; and
- 2) will not boycott Israel during the term of the contract; and
- 3) is not currently listed on the State of Texas Comptroller's Companies that Boycott Israel List located at <https://comptroller.texas.gov/purchasing/publications/divestment.php>

Icom America Inc

Company Name



(Hiroshi Nakaoka)

Signature of Authorized Official

President

Title of Authorized Official

January 5, 2018

Date

**CERTIFICATE OF LIABILITY INSURANCE**

DATE (MM/DD/YYYY)

1/5/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Commercial Lines - (206) 731-1200 USI Insurance Services National, Inc. - CA Lic#: 0D08408 999 Third Ave, Suite 4100 Seattle, WA 98104	CONTACT NAME: Beth Kennedy PHONE (A/C, No, Ext): 206-731-1200 FAX (A/C, No): 610-537-2350 E-MAIL ADDRESS: Elizabeth.C.Kennedy@usi.com														
INSURED ICOM America, Inc. 12421 Willows Rd. NE Kirkland, WA 98034-8751	<table border="1"> <thead> <tr> <th>INSURER(S) AFFORDING COVERAGE</th> <th>NAIC #</th> </tr> </thead> <tbody> <tr> <td>INSURER A: Sompo America Insurance Company</td> <td>11126</td> </tr> <tr> <td>INSURER B:</td> <td></td> </tr> <tr> <td>INSURER C:</td> <td></td> </tr> <tr> <td>INSURER D:</td> <td></td> </tr> <tr> <td>INSURER E:</td> <td></td> </tr> <tr> <td>INSURER F:</td> <td></td> </tr> </tbody> </table>	INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A: Sompo America Insurance Company	11126	INSURER B:		INSURER C:		INSURER D:		INSURER E:		INSURER F:	
INSURER(S) AFFORDING COVERAGE	NAIC #														
INSURER A: Sompo America Insurance Company	11126														
INSURER B:															
INSURER C:															
INSURER D:															
INSURER E:															
INSURER F:															

COVERAGES**CERTIFICATE NUMBER:** 12590293**REVISION NUMBER:** See below

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS														
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:		CPM40038M0	03/31/2017	03/31/2018	<table border="1"> <tr><td>EACH OCCURRENCE</td><td>\$ 1,000,000</td></tr> <tr><td>DAMAGE TO RENTED PREMISES (Ea occurrence)</td><td>\$ 100,000</td></tr> <tr><td>MED EXP (Any one person)</td><td>\$ 5,000</td></tr> <tr><td>PERSONAL & ADV INJURY</td><td>\$ 1,000,000</td></tr> <tr><td>GENERAL AGGREGATE</td><td>\$ 2,000,000</td></tr> <tr><td>PRODUCTS - COMP/OP AGG</td><td>\$ Excluded</td></tr> <tr><td></td><td>\$</td></tr> </table>	EACH OCCURRENCE	\$ 1,000,000	DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 100,000	MED EXP (Any one person)	\$ 5,000	PERSONAL & ADV INJURY	\$ 1,000,000	GENERAL AGGREGATE	\$ 2,000,000	PRODUCTS - COMP/OP AGG	\$ Excluded		\$
EACH OCCURRENCE	\$ 1,000,000																			
DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 100,000																			
MED EXP (Any one person)	\$ 5,000																			
PERSONAL & ADV INJURY	\$ 1,000,000																			
GENERAL AGGREGATE	\$ 2,000,000																			
PRODUCTS - COMP/OP AGG	\$ Excluded																			
	\$																			
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	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? <input type="checkbox"/> Y / N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N/A				<table border="1"> <tr> <td></td> <td>PER STATUTE</td> <td>OTH-ER</td> </tr> <tr><td>E.L. EACH ACCIDENT</td><td>\$</td><td></td></tr> <tr><td>E.L. DISEASE - EA EMPLOYEE</td><td>\$</td><td></td></tr> <tr><td>E.L. DISEASE - POLICY LIMIT</td><td>\$</td><td></td></tr> </table>		PER STATUTE	OTH-ER	E.L. EACH ACCIDENT	\$		E.L. DISEASE - EA EMPLOYEE	\$		E.L. DISEASE - POLICY LIMIT	\$			
	PER STATUTE	OTH-ER																		
E.L. EACH ACCIDENT	\$																			
E.L. DISEASE - EA EMPLOYEE	\$																			
E.L. DISEASE - POLICY LIMIT	\$																			

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Evidence of Insurance

CERTIFICATE HOLDER**CANCELLATION**

Houston-Galveston Area Council of Governments
 Cooperative Purchasing Program
 3555 Timmons, Suite 120
 Houston, TX 77027

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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ACORD 25 (2016/03)

Tab B: Products & Pricing**Contract Pricing**

Icom America Inc.'s contract pricing under H-GAC contract is specified on Forms D and E. We offer a percentage off of published retail price lists for all of the following product groups.

Item Description (Offeror may not change any description or add items)	Offered Price
Icom Amateur Product Group as shown in the retail product catalog dated Nov-2017 (included)	15% off List
Icom Avionics Product Group as shown in the retail product catalog dated Oct-2017 (included)	30% off List
Icom Land Mobile Product Group as shown in the retail product catalog dated Nov-2017 (included)	25% off List
Icom Marine Product Group as shown in the retail product catalog dated Aug-2017 (included)	30% off List
Icom Systems Product Group as shown in the retail product catalog dated Nov-2017 (included)	25% off List
Icom WLAN Product Group as shown in the retail product catalog dated Nov-2017 (included)	20% off List
Icom Supporting Product Accessories as shown within the retail pricers mentioned above.	25% off List
Icom Optional Services outlined are offered at list price.	List

Payment Terms

Icom America offers:

1. Extended payment terms of 2% 20, N30 (OAC)
2. Credit cards such as Visa, Mastercard and American Express (no prompt pay discount)

Freight Terms

FOB Destination CONUS, AK & HI

Free surface freight for off-the-shelf (OTS) products.

Freight charges for custom built radio communication systems may apply.

Certification of Best Pricing

Icom America Inc. certifies that the fixed discounts offered herein are as good as discounts offered to other local government customers who purchase directly from Icom America. The certification letter signed by our Government Sales Program Manager is enclosed.

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. Refer to individual product information for specific warranty coverage..

The standard warranty overview for products offered under this procurement is listed below:

Product Type or Group	Manufacturer's Warranty Period
Avionics	Two or Three years standard warranty (depends on radio) of purchase
Amateur/Receiver	One year standard warranty
Land Mobile Radio	Two or Three years standard warranty (depends on radio) of purchase
Marine	Two or Three years standard warranty (depends on radio) of purchase
Systems	One year standard warranty
WLAN	One year standard warranty
All Accessories	One year standard warranty
Parts & Labor	One year standard warranty from date of purchase of original equipment

Options Pricing**1. Extended Warranty**

Icom America Inc. offers extended warranty on landmobile radio mainframes as categorized below:

Mobiles Radios	1, 2 or 3 years extensions available
Portable Radios	1, 2 or 3 years extensions available
P25 Mobiles Radios	1, 2 or 3 years extensions available
P25 Portable Radios	1, 2 or 3 years extensions available
CY Repeaters	1, 2 or 3 years extensions available
FR Repeaters	1, 2 or 3 years extensions available

Land Mobile Extended Warranties must be purchased within 60 days of the radio purchase date. The pricing schedule is listed in the "Extended Warranty" pricing document enclosed.

2. Trade In Programs

Are available on a promotional basis, please watch our website for details:

<http://www.icomamerica.com/en/governmentsales/promotions/default.aspx>

3. Radio Programming

Products from our LandMobile and Systems product groups require frequency programming before use. Kindly refer to the price list for required programming software or if the End-user wishes for Icom America to program, the rates for that service.



First in Communications

January 8, 2018

Houston-Galveston Area Council of Governments
Cooperative Purchasing Program
3555 Timmons, Suite 120
Houston, TX 77027

RE: Certification of H-GAC Pricing

To Whom It May Concern,

We thank you in advance for the opportunity to bid the above-mentioned project.

Based on our published, contract prices and corporate discounting policies, the fixed discounts offered to our valued HGAC Customers is equal to or better than the pricing offered to our non-contract Customers.

Should you have any questions or require further information, please do not hesitate to contact us at either salescontracts@icomamerica.com or phone of 425.450.6092.

Warmest Regards,
ICOM AMERICA INC.



Kristina Pickering, KD7QEQ
Government Sales Program Manager



U.S. Amateur Retail Product & Price Catalog

November 2017



All stated specifications are subject to change without notice or obligation.
All Icom radios meet or exceed FCC regulations limiting spurious emissions.
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The IDAS™ name and logo are trademarks of Icom Inc. All other trademarks remain
the property of their respective owners.

Icom America Inc.

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Icom America Inc.

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Phone: 800-USA-ICOM (800.872.4266)
425.454.8155
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Web: www.icomamerica.com

Icom Service

Phone: 800.306.1380
Fax: 425.451.1064
E-Mail: service@icomamerica.com

Icom Parts

Phone: 800.346.0495
Fax: 425.586.6305
E-Mail: parts@icomamerica.com

Technical Support

Phone: 800.253.1498

Download Icom's current product line brochures instruction manuals, band plans and other information from:
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

Washington

Icom America Inc.
12421 Willows RD NE
Kirkland, WA 98034

Phone: 800.872.4266
Fax: 425.454.1509
Email: service@icomamerica.com

Services: Amateur, Avionics, Land Mobile,
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

ID51A PLUS2

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

Configurations

Model	Description	MSRP
ID51A BLACK2	Dual band D-STAR/ analog handheld with GPS in black with OPC2350LU included	\$650.00

Accessories

Model	Description	MSRP
Antennas		
AD92SMA	Antenna connector adapter to connect a BNC-type antenna	\$20.00
FAS270C	Wideband RX antenna (SMA)	\$35.00
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	\$25.00
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 51	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 the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC167SA	Wall trickle charger; 100-240V with US style plug	\$35.00
BC167SD	Wall trickle charger; 100-240V with Euro style plug	\$40.00
BC202 02	Rapid charger (includes BC-123SA AC adapter in the box 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
CP19R	Cigarette lighter cable with DC-DC converter, 10-16V DC required	\$52.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/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
Microphones		
HM183LS	Waterproof compact speaker microphone with right angle connector	\$120.00
HM186LS	Compact speaker microphone with slim right angle connector	\$65.00

ID51A

VHF UHF Dual Band Transceiver

Accessories

Model	Description	MSRP
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
Miscellaneous		
CT17	Level converter	\$190.00
Software & Cables		
OPC2218LU	Cloning/data cable with USB connector for ID51A/ID31A/5100A/7100	\$75.00
Wire Kits		
HM153LS	Covert durable microphone with earphone combination (right angle 2-pin connector)	\$175.00
HM166LS	Earphone microphone with two pin right angle connector	\$99.00

V80

VHF FM Transceiver

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

V80

VHF FM Transceiver

Configurations

Model	Description	MSRP
V80 HD	Radio with battery & charger (BP-265/BC193/BC-123SA)	\$184.00
V80 SPORT	5W, 2M (144-148 MHz) FM handheld with AA Alkaline case	\$124.00

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	\$43.00
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 51	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
BC191 12	110V rapid charger for radios with the NiMH BP264	\$67.00
BC191 13	220V Rapid charger for radios with the NiMH BP264	\$67.00
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	\$35.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge in vehicle. Requires charger & CP. Will not work with the BC119N.	\$83.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/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	\$28.97
97715517	V80 service manual hardcopy	\$43.94
98815525	V80 owner's manual	\$19.17
Microphones		
HM158LA	Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker)	\$47.00

V80

VHF FM Transceiver

Accessories

Model	Description	MSRP
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
OPC474	Radio to radio cloning cable (3.5mm to 3.5mm)	\$20.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$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

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

Configurations

Model	Description	MSRP
T70A HD 15	Analog Only - 5W, 2m/70cm (144-148/420-450MHz) FM handheld with battery (2000mAh Li-on) & rapid charger included	\$249.00

Accessories

Model	Description	MSRP
Antennas		
AD92SMA	Antenna connector adapter to connect a BNC-type antenna	\$20.00
FAS270C	Wideband RX antenna (SMA)	\$35.00
Batteries		
BP263	Battery case that holds 6 AA alkaline batteries	\$30.00
BP264	Ni-MH 7.2V 1400mAh	\$43.00
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
Carrying Cases		
LC174	T70A carrying case	\$45.00
Chargers		
BC123SA 51	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
BC191 12	110V rapid charger for radios with the NiMH BP264	\$67.00
BC191 13	220V Rapid charger for radios with the NiMH BP264	\$67.00
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 13	220V six unit charger for radios with the BP265 Li-Ion battery (includes AC adapter and cups installed)	\$510.00
BC197 51	110-240V six unit charger for radios with the BP265 Li-Ion battery (includes AC adapter with US plug and cups installed)	\$510.00
CP12L	Cigarette lighter cable with noise filter and right angle connector	\$43.00
CP19R	Cigarette lighter cable with DC-DC converter, 10-16V DC required	\$52.00
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge in vehicle. Requires charger & CP. Will not work with the BC119N.	\$83.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00

T70A

VHF/UHF FM Transceiver

Accessories

Model	Description	MSRP
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	\$42.00
Manuals		
94415529	T70A CD service manual	\$16.95
97715527	T70A service manual hardcopy	\$17.12
98815528	T70A owner's manual	\$19.17
Microphones		
HM131	Speaker/microphone with earphone jack and clip (straight 2-pin, both stereo plug)	\$45.00
SP27	Acoustic tube earphone with a clip to attach to clothing	\$35.00
Software & Cables		
CST70	T70A software	\$50.00
OPC474	Radio to radio cloning cable (3.5mm to 3.5mm)	\$20.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00
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. Comes standard with most mobile radios (9.8ft) and has a 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 CD service manual	\$16.95
97716530	2300H hardcopy service manual	\$53.80
98816533	2300H owner's manual	\$16.67
Microphones		
HM133V	Standard partial function remote microphone (squellch only) 2300H/V8000	\$106.00
HM154	Simple microphone for Amateur mobile radios (RJ45)	\$55.00
HM209	Noise cancelling microphone	\$145.00
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
OPC474	Radio to radio cloning cable (3.5mm to 3.5mm)	\$20.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$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	\$405.00
2730A DELUXE	VHF/UHF dual band transceiver with the MBA5 bracket included	\$445.00

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	Bluetooth pendant earpiece microphone w/PTT	\$149.00
Microphones		
HM154	Simple microphone for Amateur mobile radios (RJ45)	\$55.00
HM207	Control hand microphone (ID-5100)	\$99.00
HM209	Noise cancelling microphone	\$145.00
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 or MBA8.	\$85.00
OPC1156	Remote head extension cable (3.5m)	\$22.00
Software & Cables		
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$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	\$514.00
ID4100A DELUXE	VHF/UHF dual band D-STAR mobile with the MBA-8 included	\$560.00

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
OPC599	Cable adapter converts 13-pin ACC connector to 7-pin & 8-pin ACC connector	\$80.00
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	Bluetooth pendant earpiece microphone w/PTT	\$149.00
Microphones		
HM154	Simple microphone for Amateur mobile radios (RJ45)	\$55.00
HM207S	DTMF standard mic ID4100	\$140.00
HM209	Noise cancelling microphone	\$145.00
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 or MBA8.	\$85.00
OPC1156	Remote head extension cable (3.5m)	\$22.00
Software & Cables		
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$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	\$650.00

Accessories

Model	Description	MSRP
Cables		
OPC1132	DC power cable. Comes standard with most mobile radios (9.8ft) and has a 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	Bluetooth pendant earpiece microphone w/PTT	\$149.00
Microphones		
HM154	Simple microphone for Amateur mobile radios (RJ45)	\$55.00
HM207	Control hand microphone (ID-5100)	\$99.00
HM209	Noise cancelling microphone	\$145.00
Miscellaneous		
CT17	Level converter	\$190.00
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 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	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$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

Configurations

Model	Description	MSRP
IDRP2D 26	23cm digital data mode	\$1,027.00
IDRP2V 26	23cm digital voice module	\$1,414.00
IDRP2000V 26	D-Star 25/5W, 2m (144-148MHz) RF module	\$1,320.00
IDRP2C 06	D-Star Repeater controller	\$1,600.00
IDRP4000V 26	D-Star 25/5W, 70cm (440-450MHz) RF module DV mode	\$1,320.00

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	\$17.12
98815284	IDRP2000/4000 owner's manual	\$11.38
Software & Cables		
RSRP2 G2	Gateway software	\$394.00

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
Amplifiers		
PW1U 01	1KW Linear Amp	\$7,810.00
Antenna Tuners		
AH4 12	Automatic antenna tuner (long wire/AH2B)	\$430.00
AT180	Automatic antenna tuner (coax 50 Ohm load)	\$748.00
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
FL222	1.9kHz SSB filter IC-78/703 series/706 series/718/R75	\$300.00
Manuals		
94413342	718 CD service manual	\$16.95
97713343	718 service manual hardcopy	\$118.70
98813344	718 owner's manual	\$16.40
Microphones		
HM36	Hand microphone for all Amateur HF radios (8-pin connector)	\$100.00
SM30	Compact desktop microphone with low cut function	\$195.00
SM50	Desktop unidirectional microphone with up/down switches and low cut function	\$400.00

718

HF All Band Transceiver

Accessories

Model	Description	MSRP
Miscellaneous		
CT17	Level converter	\$190.00
Mounting Hardware		
MB23	Carry handle and mounting hardware for the IC-718/77/707/821H/R8500/R75	\$20.00
Remote Mounting		
MBF1	Remote head mount. Adhesive pad and adjustable pivot points holds it securely. Requires MBA5 or MBA8.	\$85.00

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/50MHz	144MHz	430/440MHz
SSB/CW.RTTF/FM/DV	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
Mult-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
Amplifiers		
PW1U 01	1KW Linear Amp	\$7,810.00
Antenna Tuners		
AH4 12	Automatic antenna tuner (long wire/AH2B)	\$430.00
AT180	Automatic antenna tuner (coax 50 Ohm load)	\$748.00
Antennas		
AH2B	Antenna element/base	\$599.00
AH-5NV	Fiberglass antenna element (14.8ft) for short range communication. Special order item.	\$1,875.00
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	\$19.72
Microphones		
HM103	Simple hand microphone (RJ45) for IC-706/703 series & 7100	\$125.00
HM151	Remote control microphone (7000/7100)	\$145.00
HM198	Hand microphone for 7100	\$55.00
HM209	Noise cancelling microphone	\$145.00
HM36	Hand microphone for all Amateur HF radios (8-pin connector)	\$100.00
SM30	Compact desktop microphone with low cut function	\$195.00
SM50	Desktop unidirectional microphone with up/down switches and low cut function	\$400.00
Miscellaneous		
CT17	Level converter	\$190.00
Mounting Hardware		
MB62	Main Unit mounting bracket for the 706 Series, 703 Series, 7000 & 7100	\$50.00

7100

HF/VHF/UHF Transceiver

Accessories

Model	Description	MSRP
Remote Mounting		
MBA1	Controller bracket for 7100	\$40.00
MBF1	Remote head mount. Adhesive pad and adjustable pivot points holds it securely. Requires MBA5 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
OPC2218LU	Cloning/data cable with USB connector for ID51A/ID31A/5100A/7100	\$75.00
RC28	Remote control USB encoder	\$370.00
RSBA1	IP remote control software for amateur radios	\$129.00

7200

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 *Guaranteed 0.5-29.7 and 50-54.000MHz **USB only
Receiver System:	Double conversion
Modes:	USB, LSB, CW, RTTY, (FSK), AM
Output Power:	SSB, CW, RTTY 2-100W; AM 1-40W
DSP Type:	IF 32 bit floating point DSP
Channels:	201 (199 regular, 2 scan edges)
Weight:	12.1 lb
Number in Case:	2
Warranty:	1 Year



FEATURES

- Digital IF filter with 51 passband widths
- AGC loop management
- Digital twin PBT
- USB port for PC Control
- Band stacking register
- CW carrier point (USB or LSB)
- Selectable digital filter shape CW & SSB
- Digital noise reduction and blanker
- Built-in 20dB attenuator
- Built-in voice synthesizer
- Preamplifier
- Dial lock
- Auto TS function
- 1Hz step tuning
- Quick split
- Quick set mode
- Power/SWR/ALC meter
- Rugged design for outdoor use
- Front facing speaker

SUPPLIED ACCESSORIES

- Microphone (HM36)
- DC power cable (OPC1457)
- Spare fuses
- Owner's manual

7200

HF/50MHz Transceiver

Configurations

Model	Description	MSRP
7200 02	100W HF + 6m ruggeized transceiver with DSP	\$1,146.00

Accessories

Model	Description	MSRP
Amplifiers		
PW1U 01	1KW Linear Amp	\$7,810.00
Antenna Tuners		
AH4 12	Automatic antenna tuner (long wire/AH2B)	\$430.00
AT180	Automatic antenna tuner (coax 50 Ohm load)	\$748.00
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 service manual CD version	\$28.97
97715409	7200 service manual hardcopy	\$160.78
98815380	7200 owner's manual	\$22.15
Microphones		
HM36	Hand microphone for all Amateur HF radios (8-pin connector)	\$100.00
SM30	Compact desktop microphone with low cut function	\$195.00
SM50	Desktop unidirectional microphone with up/down switches and low cut function	\$400.00
Miscellaneous		
CT17	Level converter	\$190.00
Mounting Hardware		
MB116	Front handles for the 7200	\$92.00
MB117	Carry handle and mounting hardware for the IC-7200	\$30.00
MB118	Mounting bracket for the IC-7200	\$30.00
Software & Cables		
RC28	Remote control USB encoder	\$370.00

7200

HF/50MHz Transceiver

Accessories

Model	Description	MSRP
RSBA1	IP remote control software for amateur radios	\$129.00

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
SP38	5W external speaker for HF radios	\$210.00

Amplifiers

PW1U 01	1KW Linear Amp	\$7,810.00
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Antenna Tuners

AH4 12	Automatic antenna tuner (long wire/AH2B)	\$430.00
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Antennas

AH2B	Antenna element/base	\$599.00
AH-5NV	Fiberglass antenna element (14.8ft) for short range communication. Special order item.	\$1,875.00
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

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

Miscellaneous

CT17	Level converter	\$190.00
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Mounting Hardware

MB118	Mounting bracket for the IC-7200	\$30.00
MB123	Carrying handle for 7300/9100/7410	\$35.00

Software & Cables

RC28	Remote control USB encoder	\$370.00
RSBA1	IP remote control software for amateur radios	\$129.00

9100

HF/VHF/UHF Transceiver

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

Optional

Ready-to-install 1200MHz band unit
D-STAR DV mode
CS9100 programming software
RSBA1 IP remote control software

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

9100

HF/VHF/UHF Transceiver

Configurations

Model	Description	MSRP
9100 02	100W/100W/100W/75W, HF/6m/2m/70cm transceiver	\$2,650.00

Accessories

Model	Description	MSRP
Amplifiers		
PW1U 01	1KW Linear Amp	\$7,810.00
Antenna Tuners		
AH4 12	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 service manual - CD	\$28.97
97715691	9100 service manual - hardcopy	\$219.69
98815693	9100 owner's manual	\$33.36
Microphones		
HM36	Hand microphone for all Amateur HF radios (8-pin connector)	\$100.00
SM30	Compact desktop microphone with low cut function	\$195.00
SM50	Desktop unidirectional microphone with up/down switches and low cut function	\$400.00
Miscellaneous		
CT17	Level converter	\$190.00
UX9100	1200MHz band unit	\$1,030.00

9100

HF/VHF/UHF Transceiver

Accessories

Model	Description	MSRP
<i>Mounting Hardware</i>		
MB123	Carrying handle for 7300/9100/7410	\$35.00
<i>Software & Cables</i>		
CS9100	Cloning software for 9100	\$60.00
RC28	Remote control USB encoder	\$370.00
RSBA1	IP remote control software for amateur radios	\$129.00

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
Amplifiers		
PW1U 01	1KW Linear Amp	\$7,810.00
Antenna Tuners		
AH4 12	Automatic antenna tuner (long wire/AH2B)	\$430.00
Antennas		
AH2B	Antenna element/base	\$599.00
AH-5NV	Fiberglass antenna element (14.8ft) for short range communication. Special order item.	\$1,875.00
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
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
Miscellaneous		
CT17	Level converter	\$190.00
Mounting Hardware		
MB121	Carrying handle for 7610	\$33.00
Software & Cables		
RC28	Remote control USB encoder	\$370.00
RSBA1	IP remote control software for amateur radios	\$129.00

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
Amplifiers		
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
Manuals		
94415352	7700 CD service manual	\$28.97
97715351	7700 service manual hardcopy	\$57.30
98815353	7700 owner's manual	\$35.15
Microphones		
HM36	Hand microphone for all Amateur HF radios (8-pin connector)	\$100.00
SM30	Compact desktop microphone with low cut function	\$195.00
SM50	Desktop unidirectional microphone with up/down switches and low cut function	\$400.00
Miscellaneous		
CT17	Level converter	\$190.00
Software & Cables		
RC28	Remote control USB encoder	\$370.00
RSBA1	IP remote control software for amateur radios	\$129.00

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
Amplifiers		
PW1U 01	1KW Linear Amp	\$7,810.00
External Speakers		
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	\$60.00
Microphones		
HM36	Hand microphone for all Amateur HF radios (8-pin connector)	\$100.00
SM30	Compact desktop microphone with low cut function	\$195.00
SM50	Desktop unidirectional microphone with up/down switches and low cut function	\$400.00
Miscellaneous		
7850/7851 BOOK	Technical reference book	\$50.00
CT17	Level converter	\$190.00

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	\$744.00

Accessories

Model	Description	MSRP
Antenna Tuners		
AH4 12	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		
OPC025A	12V DC power cord (751/745/740/735)	\$45.00
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
FL222	1.9kHz SSB filter IC-78/703 series/706 series/718/R75	\$300.00
Manuals		
94413419	78 CD service manual	\$50.22
97713420	78 service manual hardcopy	\$43.94
98813421	78 owner's manual	\$11.17
Microphones		
HM36	Hand microphone for all Amateur HF radios (8-pin connector)	\$100.00
SM30	Compact desktop microphone with low cut function	\$195.00
SM50	Desktop unidirectional microphone with up/down switches and low cut function	\$400.00

78

HF Transceiver for Export Only

Accessories

Model	Description	MSRP
Miscellaneous		
CT17	Level converter	\$190.00
Mounting Hardware		
MB23	Carry handle and mounting hardware for the IC-718/77/707/821H/R8500/R75	\$20.00
Remote Mounting		
MBF1	Remote head mount. Adhesive pad and adjustable pivot points holds it securely. Requires MBA5 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
PC controllable with optional CT17
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
Carrying Cases		
LC146A	R5/R6 carrying case	\$30.00
Chargers		
BC153SE	Trickle charger R5/R6/R20/BC194; 100-240V with a Euro style plug	\$30.00
BC194 02	Drop-in trickle charger stand to use with the BC-196S or CP-18A (R6)	\$39.00
BC196SA	120V AC adapter for R6/BC194	\$35.00
CP18A	Cigarette lighter cable 12V	\$40.00
Manuals		
94415532	R6 CD service manual	\$50.22
97715530	R6 hardcopy service manual	\$35.84
98815531	R6 owner's manual	\$21.06
Microphones		
SP27	Acoustic tube earphone with a clip to attach to clothing	\$35.00
SP-AT1	Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape)	\$31.50
Miscellaneous		
CT17	Level converter	\$190.00
Software & Cables		
CSR6	Programming software fo R6	\$58.00
OPC474	Radio to radio cloning cable (3.5mm to 3.5mm)	\$20.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00

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
Encryption & Internal Modules		
UT122	P-25 digital unit	\$299.00
External Speakers		
SP34	Base station high quality speaker with internal audio filters	\$465.00
Manuals		
98815256	R9500 owner's manual	\$115.35
Miscellaneous		
CT17	Level converter	\$190.00

Discontinued Radios



7600

The 7600 is discontinued and no longer available from Icom. Icom does still sell the below compatible accessories

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 Superheterodyne
Modes:	USB, LSB, CW, RTTY, PSK31, AM, FM
Output Power:	SSB, CW, RTTY, PSK31, FM 2- 100W; AM 1-30W
Channels:	101 (99 regular, 2 scan edges)
Weight:	22.0lb
Number in Case:	1
Warranty:	1 Year



FEATURES

Real-time, high resolution spectrum scope
Dual watch RX (same band only)
5.8 inch ultra wide viewing TFT display, 400 x 240 resolution
Three 1st IF (roofing) filters - 3kHz, 6kHz, 15kHz
Digital notch filter
Digital twin PBT
Digital voice recorder controls
RTTY/PSK31 encoder/decoder built in
Triple band stacking register
USB keyboard and USB flash drive connection (PC and software not required)
104dB dynamic range, +30dB, 3rd order intercept point in HF bands
Dual AGC loops controlled by DSP
Multi-function meter
Built-in high-speed automatic antenna tuner
Built-in memory keyer
Microphone equalizer and adjustable transmit bandwidth
RF speech compressor
Two types of send relay settings – mechanical or FET switch
Built-in 3-step RF attenuator (6, 12 and 18dB)
High stability TCXO unit

SUPPLIED ACCESSORIES

Hand microphone (HM36)
DC power cable (OPC1457)
Carrying handle (MB121)
CW key plug
Spare fuses)
Owner's manual

Configurations

Model	Description	MSRP
7600 02	100W HF + 6m transceiver with dual watch	\$3,500.00

Accessories

Model	Description	MSRP
Amplifiers		
PW1U 01	1KW Linear Amp	\$7,810.00
Antenna Tuners		
AH4 12	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
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		
94415460	7600 service manual - CD	\$28.97
97715444	7600 service manual - hardcopy	\$225.13
98815437	7600 owner's manual	\$31.35
Microphones		
HM36	Hand microphone for all Amateur HF radios (8-pin connector)	\$100.00
SM30	Compact desktop microphone with low cut function	\$195.00
SM50	Desktop unidirectional microphone with up/down switches and low cut function	\$400.00
Miscellaneous		
CT17	Level converter	\$190.00
Software & Cables		
RC28	Remote control USB encoder	\$370.00
RSBA1	IP remote control software for amateur radios	\$129.00

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. Comes standard with most mobile radios (9.8ft) and has a 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		
HM103	Simple hand microphone (RJ45) for IC-706/703 series & 7100	\$125.00
HM154	Simple microphone for Amateur mobile radios (RJ45)	\$55.00
HM209	Noise cancelling microphone	\$145.00
Remote Mounting		
MBF1	Remote head mount. Adhesive pad and adjustable pivot points holds it securely. Requires MBA5 or MBA8.	\$85.00
OPC1154A	3.5m front panel separation cable	\$20.00
Software & Cables		
OPC474	Radio to radio cloning cable (3.5mm to 3.5mm)	\$20.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$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	\$10.00
MB86	Swivel belt clip that screws into back of radio	\$11.00
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 51	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
BC139 02	Rapid charger for BP217 battery. Charges in approx 2.5 hours.	\$122.00
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
CP19R	Cigarette lighter cable with DC-DC converter, 10-16V DC required	\$52.00
Manuals		
94415462	80AD service manual - CD	\$50.22
97715445	80AD service manual - hardcopy	\$43.94
98815454	80AD owner's manual	\$29.63
Microphones		
HM131	Speaker/microphone with earphone jack and clip (straight 2-pin, both stereo plug)	\$45.00
HM189GPS	2-Pin GPS mic for 80AD	\$325.00
SP-AT1	Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape)	\$31.50
Software & Cables		
OPC474	Radio to radio cloning cable (3.5mm to 3.5mm)	\$20.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$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
Batteries		
BP256	Li-Ion 7.4V 1500mAh 92AD	\$115.00
BP257	Alkaline battery case AA x 2 (92AD)	\$48.00
Belt Clips		
MB111	Standard belt clip for the 92AD	\$20.00
Cables		
OPC254L	Power supply cable; 10-14V DC required for high power output	\$20.00
Carrying Cases		
LC168	92AD Carrying Case	\$35.00
Chargers		
BC123SA 51	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
BC177 02	92AD rapid charger	\$90.00
CP12L	Cigarette lighter cable with noise filter and right angle connector	\$43.00
CP19R	Cigarette lighter cable with DC-DC converter, 10-16V DC required	\$52.00
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
HM174	Waterproof IPX7 speaker microphone 92AD	\$165.00
OPC1797	Microphone adapter cable connects multipin to SP/Mic connectors	\$60.00
SP-AT1	Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape)	\$31.50
Software & Cables		
OPC474	Radio to radio cloning cable (3.5mm to 3.5mm)	\$20.00
RS92	Remote control software for 92AD. Must use with OPC-1799 that comes with the software.	\$110.00
Wire Kits		
HM128	Earphone-microphone with 2-pin straight connector	\$30.00

ID1

The ID1 is discontinued and no longer available from Icom. Icom does still sell the below compatible accessories

Accessories

Model	Description	MSRP
Cables		
OPC1069A	Ethernet cable for the IDRP products	\$15.00
OPC1132	DC power cable. Comes standard with most mobile radios (9.8ft) and has a 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
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		
94414968	ID1 CD service manual	\$28.97
97715091	ID1 service manual- hardcopy	\$44.57
98814785	ID1 owner's manual	\$23.56
Microphones		
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		
RSID1	ID1 control software	\$44.00

ID31A

The ID31A 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
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	\$25.00
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 51	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
BC202 02	Rapid charger (includes BC-123SA AC adapter in the box with US plug)	\$70.00
CP12L	Cigarette lighter cable with noise filter and right angle connector	\$43.00
CP19R	Cigarette lighter cable with DC-DC converter, 10-16V DC required	\$52.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/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
Manuals		
94416541	ID31A CD service manual	\$17.12
97716539	ID31A service manual hardcopy	\$31.07
98816540	ID31A owner's manual	\$18.87
Microphones		
HM186LS	Compact speaker microphone with slim right angle 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

Accessories

Model	Description	MSRP
Miscellaneous		
CT17	Level converter	\$190.00
Software & Cables		
OPC2218LU	Cloning/data cable with USB connector for ID51A/ID31A/5100A/7100	\$75.00
Wire Kits		
HM153LS	Covert durable microphone with earphone combination (right angle 2-pin connector)	\$175.00
HM166LS	Earphone microphone with two pin right angle connector	\$99.00

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. Comes standard with most mobile radios (9.8ft) and has a 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 CD service manual	\$28.97
97714097	V8000 service manual hardcopy	\$49.53
98814186	V8000 owner's manual	\$18.63
Microphones		
HM133V	Standard partial function remote microphone (squelch 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	\$42.00
OPC474	Radio to radio cloning cable (3.5mm to 3.5mm)	\$20.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00

7410

The 7410 is discontinued and no longer available from Icom. Icom does still sell the below compatible accessories

Accessories

Model	Description	MSRP
Amplifiers		
PW1U 01	1KW Linear Amp	\$7,810.00
Antenna Tuners		
AH4 12	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
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
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		
94415599	7410 service manual - CD	\$50.22
97715598	7410 service manual - hardcopy	\$88.65
98815597	7410 owner's manual	\$23.56
Microphones		
HM36	Hand microphone for all Amateur HF radios (8-pin connector)	\$100.00
SM30	Compact desktop microphone with low cut function	\$195.00
SM50	Desktop unidirectional microphone with up/down switches and low cut function	\$400.00
Miscellaneous		
CT17	Level converter	\$190.00
Mounting Hardware		
MB123	Carrying handle for 7300/9100/7410	\$35.00
Software & Cables		
RC28	Remote control USB encoder	\$370.00
RSBA1	IP remote control software for amateur radios	\$129.00

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
Batteries		
BP206	Li-Ion 3.7V 1650 standard battery for the R3/R20	\$71.00
Belt Clips		
MB86	Swivel belt clip that screws into back of radio	\$11.00
MB98	Standard belt clip for the F50/60 & M88	\$13.00
Carrying Cases		
LC158	R20 carrying case	\$45.00
Chargers		
BC153SA	Trickle charger R5/R6/R20/BC194; 100-240V with a US style plug	\$30.00
BC156	Desktop rapid charger for the R20 (not CEC compatible for AM radios)	\$110.00
CP18A	Cigarette lighter cable 12V	\$40.00
Manuals		
97714840	R20 service manual hardcopy	\$80.96
98814851	R20 owner's manual	\$21.61
Microphones		
SP-AT1	Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape)	\$31.50
Miscellaneous		
CT17	Level converter	\$190.00
Software & Cables		
CSR20	R20 cloning software and includes OPC1382 programming cable	\$66.00

R75

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

Accessories

Model	Description	MSRP
Chargers		
AD55S 22	110V AC power supply adapter	\$64.00
Encryption & Internal Modules		
UT106	DSP unit	\$195.00
External Speakers		
SP23	External speaker with 4 audio filters; headphone jack (5W)	\$330.00
Filters		
FL222	1.9kHz SSB filter IC-78/703 series/706 series/718/R75	\$300.00
FL223	9MHz 1.9kHz SSB filter IC-706 Series/746/756/775/781/R75	\$150.00
Manuals		
94412913	R75 CD service manual	\$28.97
97712938	R75 service manual hardcopy	\$119.61
98812934	R75 owner's manual	\$16.09
Miscellaneous		
CR282	High stability crystal (775DSP/R75)	\$230.00
CT17	Level converter	\$190.00
Mounting Hardware		
MB23	Carry handle and mounting hardware for the IC-718/77/707/821H/R8500/R75	\$20.00
Software & Cables		
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$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
Chargers		
AD55S 22	110V AC power supply adapter	\$64.00
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	\$100.00



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Handhelds



A14

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: 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



A14

VHF Air Band Transceiver

Configurations

Model	Description	MSRP
A14	Communications only airband handheld with full DTMF keypad	\$405.00

Accessories

Model	Description	MSRP
Antennas		
ANT SB	Avionic switchbox	\$115.00
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
MB96F	Leather belt hanger. Use with standard belt clip.	\$35.00
MB96N	Swivel belt hanger. Use with standard belt clip.	\$37.00
Cables		
OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$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 the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC160	Rapid charger for radios with the BP230/231/232 battery; 100-240V with a US style plug	\$67.00
BC160E	Rapid charger for radios with the BP230/231/232 battery; 100-240V with a Euro style plug	\$67.00
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	\$35.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge in vehicle. Requires charger & CP. Will not work with the BC119N.	\$83.00
Headsets		
PA OPC499	Headset adapter	\$60.00
PTT SW	Avionic PTT switch. Plugs into your headset.	\$28.00

A14

VHF Air Band Transceiver

Accessories

Model	Description	MSRP
Manuals		
94415339	A14/A14S service manual - CD	\$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
OPC474	Radio to radio cloning cable (3.5mm to 3.5mm)	\$20.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00

A24 / A6

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: 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



A24 / A6

VHF Air Band Transceiver

Configurations

Model	Description	MSRP
A24 01	Air band 5W handheld transceiver with VOR navigation	\$552.00
A6	Communications only airband 5W handheld with large display	\$475.00

Accessories

Model	Description	MSRP
Antennas		
ANT SB	Avionic switchbox	\$115.00
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	\$75.00
Belt Clips		
MB103	Alligator belt clip	\$12.50
MB86	Swivel belt clip that screws into back of radio	\$11.00
MB96F	Leather belt hanger. Use with standard belt clip.	\$35.00
MB96N	Swivel belt hanger. Use with standard belt clip.	\$37.00
Cables		
OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$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 the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
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	\$35.00
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

A24 / A6

VHF Air Band Transceiver

Accessories

Model	Description	MSRP
Microphones		
HM234	Aviation speaker mic (2-pin right angle connector)	\$105.00
Software & Cables		
CSA24	A24 Cloning Software	\$65.00
OPC474	Radio to radio cloning cable (3.5mm to 3.5mm)	\$20.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$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	\$715.00
A25N	Communications plus navigation aviation handheld 6W	\$870.00

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
MB96F	Leather belt hanger. Use with standard belt clip.	\$35.00
MB96N	Swivel belt hanger. Use with standard belt clip.	\$37.00
Chargers		
BC123SA 51	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 designed to hold a rapid charger allowing battery to charge in vehicle. Requires charger & CP. Will not work with the BC119N.	\$83.00
Headsets		
VS3	Bluetooth pendant earpiece microphone w/PTT	\$149.00
Microphones		
HM231	Waterproof speaker microphone (A25)	\$105.00
Software & Cables		
CSA25	A25 programming software	\$85.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00

Mobiles / Panel Mounts



A120

VHF Air Band Transceiver

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



A120

VHF Air Band Transceiver

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		
ANT SB	Avionic switchbox	\$115.00
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	Bluetooth pendant earpiece microphone w/PTT	\$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
Miscellaneous		
VEPG3	ROIP gateway	\$1,900.00
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	\$200.00
ICT ICO11 220V	220V power supply and cabinet for control station use for A120	\$230.00
Software & Cables		
CSA120	Programming software A120	\$90.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00
OPC592	Programming cloning cable for PC to radio (must use with OPC-478/UC)	\$17.00

A120

VHF Air Band Transceiver

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*
- Dual watch and priority watch functions

*Excludes TSO version

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 with PS80 04 power supply for base station option	\$3,630.00
A220M	Radio with MB-53 for mobile mount	\$2,680.00
A220T	TSO approved panel mount aviation radio	\$2,800.00

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
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

Configurations

Model	Description	MSRP
VEPG3	ROIP gateway	\$1,900.00

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

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
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Miscellaneous

CT24	Digital voice converter (supplied with RCFS10 and works with VEPG3)	\$1,200.00
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Mounting Hardware

MB VP3	Rack mounting shelf for VEPG3/IP1000C	\$100.00
MB99A	Wall mounting bracket VEPG3/IP1000C	\$65.00

Remote Communication

RCFS10	Remote Communicator software + CT-24 (digital voice converter unit - each IDAS system requires 1 CT-24)	\$1,820.00
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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	\$3,330.00
IAS X-BAND 50 AIR V	Airband AM & VHF FM cross band repeater	\$3,330.00

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

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	42x19 welded steel 2-post rack; 24U, 1,500lb weight capacity	\$1,025.00

Software & Cables

CSF3021/F5021/F5011	F3021/5021/5011 series programming software	\$72.00
OPC1122	PC to mobile radio programming cloning cable with RC-232S connector	\$99.00
OPC1122U	PC to mobile radio programming cloning cable with USB connector.	\$99.00
PROG-IAS	Icom to program your system products	\$0.00



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November 2017



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Icom America Inc.

Portables



F3011 – F4011 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:	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

Icom America Inc.

U.S. Land Mobile Retail: Product Catalog

F3011 – F4011 Series

Entry Level Analog Portables

Configurations

Model	Description	MSRP
F3011 41 RC	136-174MHz radio with rapid charger in the box (BC-160)	\$240.00
F4011 41 RC	400-470MHz radio with rapid charger in the box (BC-160)	\$240.00
F4011 42 RC	450-512MHz radio with rapid charger in the box (BC-160)	\$240.00

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	\$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	\$16.00
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	Metal stud that slides on where the belt clip goes. Requires AW Swivel	\$12.00
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
MB96F	Leather belt hanger. Use with standard belt clip.	\$35.00
MB96N	Swivel belt hanger. Use with standard belt clip.	\$37.00

F3011 – F4011 Series

Entry Level Analog Portables

Accessories

Model	Description	MSRP
Cables		
OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00
Carrying Cases		
LCF14 LOOP	Leather carrying case with a loop F14/24 & F3011/4011 radios	\$38.00
LCF14 SWIVEL	Leather carrying case with a swivel F14/24 & F3011/4011 radios	\$50.00
NCF14 CLIP	Nylon carrying case with a clip F14/24 & F3011/4011 radios	\$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 51	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 the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC160	Rapid charger for radios with the BP230/231/232 battery; 100-240V with a US style plug	\$67.00
BC160E	Rapid charger for radios with the BP230/231/232 battery; 100-240V with a Euro style plug	\$67.00
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	\$35.00
IA-TC100B	Travel charger piece the BC-160/BC-171 fits into. Req CP1/CP17L or OPC515L	\$45.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge in vehicle. Requires charger & CP. Will not work with the BC119N.	\$83.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	\$42.00
OTTO V4BA2CS1	Breeze behind-the-head headset, single speaker with left boom mic with 2-pin right angle screw down connector	\$107.00
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	\$47.00

F3011 – F4011 Series

Entry Level Analog Portables

Accessories

Model	Description	MSRP
	down connector, stereo mic/mono speaker)	
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)	\$60.00
OTTO V210288	Evolution heavy duty mic with hi/lo volume switch, 2.5mm earphone jack and 2-pin right angle screw down connector	\$113.00
OTTO V2C2CC11	Legacy speaker mic with 2-pin right angle connector	\$46.00
OTTO V2C2CS11	Legacy speaker microphone (2-pin screw down connector)	\$48.00
OTTO V2L2CC11	Profile speaker mic with 2-pin right angle connector	\$88.00
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
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	\$75.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00
PROG-MF	Icom to program your land mobile mainframe	\$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
KLEIN BODYGUARD-S6	Earloop/bud 2-wire kit w/screw down connector	\$32.00
OTTO E1EB2CC131	1-wire kit with earbud and in-line mic with 2-pin right angle connector	\$10.00
OTTO E1ET2CS131	2-wire D-hanger with in line mic/ptt with 2-pin right angle connector	\$32.00

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

IP54
DUST PROTECTION
& SPLASH PROOF



OTTO
ACCESSORIES
AVAILABLE

MDC 1200
Compatible

F3001 – F4001 Series

Entry Level Analog Portables

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	\$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	\$16.00
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

BP263	Battery case that holds 6 AA alkaline batteries	\$30.00
BP264	Ni-MH 7.2V 1400mAh	\$43.00
BP265	Li-ion 7.4V 1900mAh	\$62.00

Belt Clips

MB124	Alligator type belt clip	\$12.00
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Cables

OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$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

F3001 – F4001 Series

Entry Level Analog Portables

Accessories

Model	Description	MSRP
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 51	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 the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC191 12	110V rapid charger for radios with the NiMH BP264	\$67.00
BC191 13	220V Rapid charger for radios with the NiMH BP264	\$67.00
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
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 13	220V six unit charger for radios with the BP265 Li-Ion battery (includes AC adapter and cups installed)	\$510.00
BC197 51	110-240V six unit charger for radios with the BP265 Li-Ion battery (includes AC adapter with US plug and cups installed)	\$510.00
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge in vehicle. Requires charger & CP. Will not work with the BC119N.	\$83.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/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 V4BA2CS1	Breeze behind-the-head headset, single speaker with left boom mic with 2-pin right angle screw down connector	\$107.00
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	\$31.74
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

F3001 – F4001 Series

Entry Level Analog Portables

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)	\$60.00
OTTO V210288	Evolution heavy duty mic with hi/lo volume switch, 2.5mm earphone jack and 2-pin right angle screw down connector	\$113.00
OTTO V2C2CS11	Legacy speaker microphone (2-pin screw down connector)	\$48.00
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-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	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00
PROG-MF	Icom to program your land mobile mainframe	\$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
OTTO E1EB2CC131	1-wire kit with earbud and in-line mic with 2-pin right angle connector	\$10.00
OTTO E1ET2CS131	2-wire D-hanger with in line mic/ptt with 2-pin right angle connector	\$32.00

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,D,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 or FA-SC57U)
Battery pack (BP-279)
Belt Clip (MB-133)
Warranty: 2 years



Icom America Inc.

U.S. Land Mobile Retail: Product Catalog

F1000/S/T – F2000/S/T Series

Entry Level Analog Portables

Configurations

Model	Description	MSRP
F1000 01	136-174MHz 16 CH, no display	\$210.00
F1000S 05	136-174MHz, 128 CH, LCD, 4-key	\$300.00
F1000T 09	136-174MHz, 128CH, LCD, full DTMF keypad.	\$330.00
F2000 01	400-470MHz 16 channel, no display	\$210.00
F2000S 05	400-470MHz, 128 CH, LCD, 4-key	\$300.00
F2000T 09	400-470MHz, 128 CH, LCD, full DTMF keypad	\$330.00
F2000 21	450-512MHz 16 CH, no LCD	\$210.00
F2000S 23	450-512MHz, 128 CH, LCD, 4-key	\$300.00
F2000T 25	450-512MHz, 128 CH, LCD, full DTMF keypad	\$330.00

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	\$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	\$16.00
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
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Cables

OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00
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F1000/S/T – F2000/S/T Series

Entry Level Analog Portables

Accessories

Model	Description	MSRP
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 51	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 the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC213	Rapid charger with a US plug for radios with the BP279/BP280 battery (BC-123SA included)	\$42.00
BC213NAC	Rapid charger cup for radios with the BP279 battery (BC-123S not included)	\$26.00
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
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge in vehicle. Requires charger & CP. Will not work with the BC119N.	\$83.00
Headsets		
HS94	Earpiece headset; use with VS1/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 VS1/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 VS1/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-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		
CSF2000	Programming software for the F1000/2000 series	\$72.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00

F1000/S/T – F2000/S/T Series

Entry Level Analog Portables

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

F1000D – F2000D Series

IDAS™ Entry Level Portables

SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	5W (VHF); 4W (UHF)
Channels:	16
Channel Spacing:	12.5 / 6.25kHz
Mil Spec:	810 C, D, E
Scan:	Normal & priority
Weight:	9.17oz (with BP-280)
Waterproof Rating:	IP67 waterproof and dust tight



FEATURES

General Features:

- IP67 waterproof and dust tight
- Lone worker function
- Channel announcement
- BTL amplifier for loud audio output
- DTMF autodial memories

Digital Features:

- IDAS™ conventional
- IDAS™ single-site trunking
- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- PTT ID (TX)
- Individual/group calls
- Radio check (RX)
- Stun/Kill/Revive (RX)
- Remote monitor (RX)
- Emergency (TX)
- Call alert (RX)
- Digital voice scrambler (15-bit)
- Status Call (Power ON/OFF status and GPS request)
- Voting scan for multi-site conventional operation TX: Transmit, RX: Receive

SIGNALING (Analog Only)

CTCSS / DCS / DTMF encode & decode
2/5 Tone encode & decode
MDC1200: PTT ID & emergency call, radio check(RX) and stun/revive (RX)

COMES WITH

Antenna (FA-SC55V, FA-SC57U or FA-SC72U)
Battery (BP-280)
Belt Clip (MB-133)
Owner's manual
Warranty: 2 years



F1000D – F2000D Series

IDAS™ Entry Level Portables

Configurations

Model	Description	MSRP
F1000D 01	136-174MHz 16 CH, no display, IDAS	\$370.00
F2000D 01	400-470MHz 16 channel, no display, IDAS	\$370.00
F2000D 12	450-512MHz, IDAS 16 CH, no display	\$370.00

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	\$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	\$16.00
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
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Cables

OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00
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Carrying Cases

LCF1000S	Leather carrying case with a swivel for F1000/2000/D non display radios	\$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
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F1000D – F2000D Series

IDAS™ Entry Level Portables

Accessories

Model	Description	MSRP
BC123SA 51	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 the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC213	Rapid charger with a US plug for radios with the BP279/BP280 battery (BC-123SA included)	\$42.00
BC213NAC	Rapid charger cup for radios with the BP279 battery (BC-123S not included)	\$26.00
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
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge in vehicle. Requires charger & CP. Will not work with the BC119N.	\$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 VS1/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
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		
CSF2000D	Programming software for the F1000D/2000D	\$72.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00
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

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



F3201DEX – F4201DEX Series

IECEEx/ATEX Intrinsically Safe IDAS VHF/UHF Portables

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	PC to radio programming cloning cable with USB connector for radios with 14-pin connector	\$189.00
PROG-MF	Icom to program your land mobile mainframe	\$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)

SIGNALING

CTCSS / DTCS 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

F3210D – F4210D Series

Entry Level IDAS™ Trunking Portables

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	\$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	\$16.00
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
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
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Cables

OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00

Chargers

AD121	Adapter cup that fits into the BC197 12/13 for the BP265 Li-ion battery	\$23.00
BC123SA 51	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

F3210D – F4210D Series

Entry Level IDAS™ Trunking Portables

Accessories

Model	Description	MSRP
BC157S	AC adapter for the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
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 13	220V six unit charger for radios with the BP265 Li-Ion battery (includes AC adapter and cups installed)	\$510.00
BC197 51	110-240V six unit charger for radios with the BP265 Li-Ion battery (includes AC adapter with US plug and cups installed)	\$510.00
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge in vehicle. Requires charger & CP. Will not work with the BC119N.	\$83.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/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		
94416646	F3210D/4210D CD service manual	\$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
HM171GP	2-pin GPS mic for F3101D/4101D series	\$360.00
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 to attach to clothing	\$35.00
Software & Cables		
CSF3210D	Programming software for F3210D/4210D, F3230D/4230D & F5220D/6220D	\$72.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00
PROG-MF	Icom to program your land mobile mainframe	\$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 / DTCS 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



F3230D – F4230D Series

IDAS Trunking Portables

Configurations

Model	Description	MSRP
F3230DS 13	136-174MHz IDAS 128 channel MultiTrunk portable with display. Charger (BC-160) included.	\$575.00
F4230DS 13	400-470MHz IDAS 128 channel MultiTrunk portable with display. Charger (BC-160) included.	\$575.00
F4230DS 32	450-512MHz IDAS 128 channel MultiTrunk portable with display. Charger (BC-160) included.	\$575.00

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	\$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	\$16.00
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

BP232WP	Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value) IP67 waterproof battery	\$75.00
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Belt Clips

AW STUD	Metal stud that slides on where the belt clip goes. Requires AW Swivel	\$12.00
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
MB96F	Leather belt hanger. Use with standard belt clip.	\$35.00
MB96N	Swivel belt hanger. Use with standard belt clip.	\$37.00

F3230D – F4230D Series

IDAS Trunking Portables

Accessories

Model	Description	MSRP
Cables		
OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$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
NCF3021S LOOP	Nylon carrying case with a loop and cutout for the display	\$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
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 the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC160	Rapid charger for radios with the BP230/231/232 battery; 100-240V with a US style plug	\$67.00
BC160E	Rapid charger for radios with the BP230/231/232 battery; 100-240V with a Euro style plug	\$67.00
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
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/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 CD service manual	\$28.97
94416679	Service manual CD for F4230D	\$28.97
97716676	Service manual hardcopy F3230D	\$47.08
97716678	Service manual hardcopy F4230D	\$53.73
98816675	Owner's manual F3230D/4230D	\$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
Software & Cables		
CSF3210D	Programming software for F3210D/4210D, F3230D/4230D & F5220D/6220D	\$72.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00

F3230D – F4230D Series

IDAS Trunking Portables

Accessories

Model	Description	MSRP
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00
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

F50V/F60V Series

Submersible Analog Portables – Discontinued Limited Stock Available

SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	4W (UHF); 5W (VHF)
Channels:	128 With 8 memory banks
Channel Spacing:	12.5kHz
LCD Display:	8 Character
Programmable Keys:	7
Mil Spec:	810 C, D, E
Scan:	Normal & Priority
Weight:	9.9oz (with BP-227) (VHF) 10.0oz (with BP-227) (UHF)
Waterproof Rating:	IPX7 submersible (non V versions) & IP67 submersible (V versions)



FEATURES

F50V/F60V Features:	Conventional analog 700mW AF power w/ BTL amplifier Lone worker function Low battery beep 17 scanning list memories Surveillance function
Voice/Vibrate Features:	Vibration alert function 8 Minute voice recorder Paging function (special firmware required)

COMES WITH

Antenna (FA-S59V, FA-S27U or FA-S56U)
Battery (BP-227)
Belt Clip (MB-98)
Owner's manual
Warranty: 2 years

SIGNALING

CTCSS / DTCS Encode/Decode

Built-In 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

MDC1200

- PTT ID, Radio check, Caller ID
- Call alert, Selcall
- Emergency, emergency mic monitoring
- Stun/revive, Status/message
- 500 aliases



IPX7



OTTO
ACCESSORIES
AVAILABLE

IP57
SUBMERSIBLE &
DUST PROTECTED

Icom America Inc.

U.S. Land Mobile Retail: Product Catalog

F50V/F60V Series

Submersible Analog Portables – Discontinued Limited Stock Available

Configurations

Model	Description	MSRP
F50V 11	136-174MHz waterproof radio with voice and vibrate features	\$620.00
F60 81	400-470MHz intrinsically safe radio with UT-110 voice scrambler installed	\$686.00
F60V 16	450-512MHz waterproof radio	\$513.00
F60V 18	450-512MHz waterproof radio with voice and vibrate features	\$554.00

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

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 & M88 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)	\$16.00
FAS59V	150-174MHz standard antenna for the F50 & M88 (red ring)	\$13.00
FAS62VS	150-162MHz stubby antenna for F50/V (Red ring)	\$16.00
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	\$110.00

Belt Clips

MB86	Swivel belt clip that screws into back of radio	\$11.00
MB96F	Leather belt hanger. Use with standard belt clip.	\$35.00
MB96N	Swivel belt hanger. 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 BC121N or BC197 gang chargers	\$12.00

Carrying Cases

AW F50 AREA 51	Water repellant case with a swivel belt clip for the F50/60 & M88	\$35.00
LCF50 LOOP	Leather carrying case with a loop and cutout for the display	\$38.00
LCF50 SWIVEL	Leather carrying case with a loops swivel and cutout for the display	\$50.00
NCM88	Nylon carrying case with a clip for the F50/60 & M88 radios	\$26.00

F50V/F60V Series

Submersible Analog Portables – Discontinued Limited Stock Available

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 51	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 the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
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	\$35.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge in vehicle. Requires charger & CP. Will not work with the BC119N.	\$83.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	\$42.00
OTTO V410514	Lightweight single speaker w/in-line ptt, padded headband (9-pin connector)	\$155.00
OTTO V4HC2CM1	Hurricane lightweight, dual ear, behind-the-head headset with 9-pin connector	\$265.00
VS1SC	VOX/PTT case with 9-pin connector. Must use with HS94/HS95/HS97.	\$68.00
Manuals		
94415358	F60V CD service manual	\$16.95
94415376	F50V CD service manual	\$31.86
97715317	F50V service manual - hardcopy	\$46.64
97715356	F60V service manual - hardcopy	\$36.35
98815318	F50V/60V owner's manual	\$8.56
Microphones		
HM131SC	Speaker/microphone with earphone jack and clip (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
KLEIN K9900-S8	Speaker Mic Includes Audio Port F50/F60	\$70.00
KLEIN SCORPION	Listen Only earloop/earbud that plugs into speaker microphone	\$17.00
OTTO V110282	Speaker mic earpiece(2.5mm straight plug)	\$50.00
OTTO V110433	Speaker mic earpiece (3.5mm right angle plug)	\$60.00
OTTO V210272	Genesis waterproof mic with removable front grill cover. Mic output -44dBV. Nine pin connector	\$180.00
RedHawk		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	\$70.00

F50V/F60V Series

Submersible Analog Portables – Discontinued Limited Stock Available

Accessories

Model	Description	MSRP
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		
CSF50	F50/F60 Program Software	\$75.00
CSF50V	F50V Program Software	\$72.00
OPC966U	PC to radio programming cloning cable with USB connector for radios with 9-pin connector	\$168.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00
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

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



IDAS™
ICOM DIGITAL ADVANCED SYSTEM

Icom America Inc.

U.S. Land Mobile Retail: Product Catalog

F3161 – F4161 / F3161D – F4161D Series

Analog, LTR®, Digital Portables

Configurations

Model	Description	MSRP
F3161S 56	136-174MHz analog only radio, no DTMF keypad	\$578.00
F3161T 46	136-174MHz analog only radio, full DTMF keypad	\$602.00
F4161S 21	400-470MHz analog only radio, no DTMF keypad	\$578.00
F4161S 56	450-512MHz analog only radio, no DTMF keypad	\$578.00
F4161T 46	450-512MHz analog only radio, full DTMF keypad	\$602.00

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	\$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	\$16.00
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
BP232N FM	Intrinsically safe li-ion 7.4V 2000mAh (typical capacity), 1900mAh (minimum value) F3161/4161 IS series	\$145.00
BP240	Battery case that holds 6 AAA alkaline batteries (1W output power)	\$35.00

Belt Clips

AW STUD	Metal stud that slides on where the belt clip goes. Requires AW Swivel	\$12.00
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

F3161 – F4161 / F3161D – F4161D Series

Analog, LTR®, Digital Portables

Accessories

Model	Description	MSRP
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
MB96F	Leather belt hanger. Use with standard belt clip.	\$35.00
MB96N	Swivel belt hanger. Use with standard belt clip.	\$37.00
Cables		
OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00
Carrying Cases		
LCF3061S CLIP	Leather carrying case with a clip and cutout for display only F3161/4161 series	\$45.00
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 CLIP	Nylon carrying case with a clip for the F3161T/4161T radios with a full keypad	\$27.00
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 the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC160	Rapid charger for radios with the BP230/231/232 battery; 100-240V with a US style plug	\$67.00
BC160E	Rapid charger for radios with the BP230/231/232 battery; 100-240V with a Euro style plug	\$67.00
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	\$35.00
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	\$45.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge in vehicle. Requires charger & CP. Will not work with the BC119N.	\$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
UT124R 02	Man down unit	\$90.00
UT126H 03	6.25kHz digital module for F3161/4161 or F5061/6061 radios	\$250.00

F3161 – F4161 / F3161D – F4161D Series

Analog, LTR®, Digital Portables

Accessories

Model	Description	MSRP
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/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	\$28.97
97715082	F3161/D service manual-hardcopy	\$108.63
97715154U	F4161/D service manual-hardcopy	\$191.65
98815083	F3161/4161/D & F3061/4061 owner's manual	\$6.93
Microphones		
HM131SC	Speaker/microphone with earphone jack and clip (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
HM170GP	9-pin waterproof GPS mic for EMDC or digital versions of the F3161/4161 series	\$365.00
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)	\$60.00
SP-AT1	Single pin listen only w/QD acoustic tube (9", 3.5mm L-shape)	\$31.50
Miscellaneous		
AD52	Earphone adapter for the F3161/F4161/F30G/M88	\$25.00
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-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	PC to radio programming cloning cable with USB connector 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	\$0.00

F3161 – F4161 / F3161D – F4161D Series

Analog, LTR®, Digital Portables

Accessories

Model	Description	MSRP
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



F3261D – F4261D Series

Waterproof Analog, LTR®, & IDAS Digital Portables

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 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

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	\$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	\$16.00
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

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

F3261D – F4261D Series

Waterproof Analog, LTR®, & IDAS Digital Portables

Accessories

Model	Description	MSRP
MB96F	Leather belt hanger. Use with standard belt clip.	\$35.00
MB96N	Swivel belt hanger. Use with standard belt clip.	\$37.00
Cables		
OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$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
AD99N	Spacer for the AD94 adapter cup	\$6.40
BC123SA 51	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 the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC160	Rapid charger for radios with the BP230/231/232 battery; 100-240V with a US style plug	\$67.00
BC160E	Rapid charger for radios with the BP230/231/232 battery; 100-240V with a Euro style plug	\$67.00
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	\$35.00
IA-TC100A	Travel charger piece the BC-160/BC-171 fits into. Req CP1/CP17L or OPC515L	\$45.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge in vehicle. Requires charger & CP. Will not work with the BC119N.	\$83.00
SS BC61	Mobile rapid charger with cigarette adapter for the F3161 & F3261 series	\$215.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/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 CD service manual	\$16.95
97716573	F3261/4261 hardcopy service manual	\$42.12
98816575	F3261/4261 owner's manual	\$27.39
Microphones		
HM184H	14-pin loud waterproof speaker mic (no accessory jack)	\$118.00
HM-HD7I6WP	Large waterproof speaker microphone with 3.5mm accessory jack(14-pin connector)	\$120.00

F3261D – F4261D Series

Waterproof Analog, LTR®, & IDAS Digital Portables

Accessories

Model	Description	MSRP
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	PC to radio programming cloning cable with USB connector 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	\$110.00
PROG-MF	Icom to program your land mobile mainframe	\$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)



F3360D – F4360D Series

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

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
F4360DT 01	400-470MHz waterproof IDAS radio with GPS, 512CH, full DTMF keypad	\$895.00

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	\$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	\$16.00
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

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
MB96F	Leather belt hanger. Use with standard belt clip.	\$35.00
MB96N	Swivel belt hanger. Use with standard belt clip.	\$37.00

Cables

OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00

F3360D – F4360D Series

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

Accessories

Model	Description	MSRP
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
AD99N	Spacer for the AD94 adapter cup	\$6.40
BC123SA 51	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 the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC160	Rapid charger for radios with the BP230/231/232 battery; 100-240V with a US style plug	\$67.00
BC160E	Rapid charger for radios with the BP230/231/232 battery; 100-240V with a Euro style plug	\$67.00
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	\$35.00
IA-TC100A	Travel charger piece the BC-160/BC-171 fits into. Req CP1/CP17L or OPC515L	\$45.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge in vehicle. Requires charger & CP. Will not work with the BC119N.	\$83.00
SS BC61	Mobile rapid charger with cigarette adapter for the F3161 & F3261 series	\$215.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/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 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 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	PC to radio programming cloning cable with USB connector 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	\$110.00
OPC2338	14-pin programming cable plus transparent data transfer	\$235.00

F3360D – F4360D Series

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

Accessories

Model	Description	MSRP
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	\$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)

F52D/F62D Series

Analog & IDAS Digital Compact Waterproof Portables

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
ISL-AK25K	Add 25kHz into the radio	\$13.00
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	\$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	\$16.00
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

BP290	2010mAh li-ion battery	\$105.00
BP291	Battery case 5 x AA	\$50.00

Belt Clips

MB136	Swivel belt clip for F1000/F3400/F7010 series	\$15.00
MB96F	Leather belt hanger. Use with standard belt clip.	\$35.00
MB96N	Swivel belt hanger. 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 BC121N or BC197 gang chargers	\$12.00

F52D/F62D Series

Analog & IDAS Digital Compact Waterproof Portables

Accessories

Model	Description	MSRP
Chargers		
BC123SA 51	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 the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC214-1	Six gang charger for F3400 series (includes AC adapter with US plug)	\$510.00
BC214-1E	Six gang charger for F3400 series (includes AC adapter with Euro plug)	\$510.00
BC219N	Rapid charger for F52D/F62D; 100-240V with a US style plug	\$67.00
BC225	Smart rapid charger; 100-240V with a US style plug	\$135.00
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	\$42.00
VS3	Bluetooth pendant earpiece microphone w/PTT	\$149.00
VS5MC	VOX/PTT switch cable to use with headset (HS94/95/97)	\$150.00
Microphones		
EH15B	Earphone with 2.5mm plug to use with HM-163MC	\$30.00
HM163MC	Lapel mic with 2.5mm earphone jack	\$200.00
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
SP27	Acoustic tube earphone with a clip to attach to clothing	\$35.00
SP28	Earhook type earphone with 2.5mm plug to use with HM-163MC	\$25.00
SP29	Earhook type earphone with 3.5mm plug	\$25.00
SP32	Tube adapter for use with the EH-15B	\$30.00
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		
CSF52D	F52D/F62D programming software	\$100.00
CSOTPM1	Over-the-air programming (OTAP) manager software	\$520.00
OPC1862	PC to radio programming cloning cable with USB connector 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	\$0.00
RSBC225	Battery management software for the BP-283/284. Can connect up to 30 BC-225 chargers to it.	\$250.00

F52D/F62D Series

Analog & IDAS Digital Compact Waterproof Portables

Accessories

Model	Description	MSRP
Trunking		
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



F3400D – F4400D Series

VHF UHF Digital Handheld Transceiver

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.	\$900.00
F3400DT 01	136-174MHz IDAS portable with 1024 channels, a color display, and full DTMF keypad. Purchase antenna and charger separately.	\$960.00
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.	\$900.00
F4400DT 01	380-470MHz IDAS portable with 1024 channels, a color display, and full DTMF keypad. Purchase antenna and charger separately.	\$960.00
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.	\$900.00
F4400DT 31	450-512MHz IDAS portable with 1024 channels, a color display, and full DTMF keypad. Purchase antenna and charger separately.	\$960.00

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-AK25K	Add 25kHz into the radio	\$13.00
QCRRS01	3 year comprehensive radio repair service for IDAS radios	\$0.00

Antennas

FAS67VC	136-174MHz cut antenna - F3400/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	\$17.00
FAS81VS	136-150MHz stubby antenna for F3400	\$17.00
FAS82U	430-480MHz antenna for F4400	\$17.00
FAS82US	450-490MHz stubby antenna for F4400	\$17.00
FAS82V	148-162MHz antenna for F3400	\$17.00
FAS82VS	150-162MHz stubby antenna for F3400	\$17.00
FAS83U	470-520MHz antenna for F4400	\$17.00
FAS83V	160-174MHz antenna for F3400	\$17.00
FAS83VS	160-174MHz stubby antenna for F3400	\$17.00

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
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F3400D – F4400D Series

VHF UHF Digital Handheld Transceiver

Accessories

Model	Description	MSRP
MB136	Swivel belt clip for F1000/F3400/F7010 series	\$15.00
MB96F	Leather belt hanger. Use with standard belt clip.	\$35.00
MB96N	Swivel belt hanger. Use with standard belt clip.	\$37.00
Cables		
OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00
Carrying Cases		
LCF1034SW	Leather case with swivel belt loop and D-ring; no display cutout for the F3400D	\$45.00
LCF1035SW	Leather case with swivel belt loop and D-ring; display cutout for the F3400DS & F7010S	\$45.00
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 51	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 the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC214-1	Six gang charger for F3400 series (includes AC adapter with US plug)	\$510.00
BC214-1E	Six gang charger for F3400 series (includes AC adapter with Euro plug)	\$510.00
BC219	Rapid charger for radios with the BP283/BP284; 100-240V with a US style plug	\$67.00
BC219E	Rapid charger for radios with the F3400 series; 100-240V with a Euro style plug	\$67.00
BC225	Smart rapid charger; 100-240V with a US style plug	\$135.00
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
SS BC62	Mobile rapid charger with cigarette adapter for the F3400 & F7010 series	\$215.00
Encryption & Internal Modules		
CSKLD2	Encryption key loader software for F3400/F5400 & F7010/F7510 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 for F3400/F5400 & F7010/F7510 series	\$185.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/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 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
HM222	IP68 waterproof speaker microphone w/3.5mm accessory jack (14-pin connector)	\$145.00
IAHM600	Wireless speaker microphone, which includes charger and charging cable	\$215.00
SP27	Acoustic tube earphone with a clip to attach to clothing	\$35.00
SP29	Earhook type earphone with 3.5mm plug	\$25.00

F3400D – F4400D Series

VHF UHF Digital Handheld Transceiver

Accessories

Model	Description	MSRP
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
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	PC to radio programming cloning cable with USB connector 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	\$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 / DTCS 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

F70/F80 – F70D/F80D Series

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

Configurations

Model	Description	MSRP
F80T 56	450-512MHz intrinsically safe analog radio, full DTMF keypad (P25 upgradeable)	\$500.00
F80DS 31	380-450MHz P25 radio with FIPS AES installed, no DTMF keypad	\$1,065.00

Accessories

Model	Description	MSRP
EX2785J02	DES activation upgrade	\$551.00
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

Antennas

AD98FSC	Antenna connector adapter for "J" to "BNC" conversion	\$22.00
CEN EXD 380 MXI	380-420MHz stubby antenna for land mobile portable radios	\$14.50
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	\$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	\$16.00
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
BP254	Li-ion 7.2V 3040mAh (typical capacity), 2900mAh (minimum value) for P25 portables	\$155.00

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
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
MB96F	Leather belt hanger. Use with standard belt clip.	\$35.00
MB96N	Swivel belt hanger. Use with standard belt clip.	\$37.00

Cables

OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00

F70/F80 – F70D/F80D Series

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

Accessories

Model	Description	MSRP
Carrying Cases		
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
LCF70 LOOP	Leather case with a belt loop and DTMF keypad cutout for the F70/80 series radios	\$38.00
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
NCF70 CLIP	Nylon carrying case with a clip for the F70/80 radios with a full keypad cutout	\$27.00
NCF70 LOOP	Nylon carrying case with a loop for the F70/80 radios with a full keypad cutout	\$25.00
Chargers		
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 the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
Encryption & Internal Modules		
INSTALL-MF	Install a component into an LM mobile or portable	\$0.00
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 VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	\$42.00
OTTO V410514	Lightweight single speaker w/in-line ptt, padded headband (9-pin connector)	\$155.00
OTTO V4HC2CM1	Hurricane lightweight, dual ear, behind-the-head headset with 9-pin connector	\$265.00
VS1SC	VOX/PTT case with 9-pin connector. Must use with HS94/HS95/HS97.	\$68.00
KVL		
KA KVL125	KVL unit powered by 9-volt battery	\$3,185.00
OPC-IAKVL9	Interface Cable with 9 Pin Connector between F70D/F80D & KA KVL125	\$200.00
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)	\$130.00
HM169	Waterproof speaker mic (9-pin)	\$105.00

F70/F80 – F70D/F80D Series

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

Accessories

Model	Description	MSRP
IMPACT HD3-I5	Heavy duty use speaker mic with 3.5mm accessory jack (9-pin)	\$76.00
KLEIN SCORPION	Listen Only earloop/earbud that plugs into speaker microphone	\$17.00
OTTO V110282	Speaker mic earpiece(2.5mm straight plug)	\$50.00
OTTO V110433	Speaker mic earpiece (3.5mm right angle plug)	\$60.00
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-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	\$72.00
OPC1533	Radio to radio cloning cable between F1721/2721/D series mobiles & F70/80/D portable radios	\$88.00
OPC1536	Radio to radio cloning cable between F70/80/D portable radios	\$123.00
OPC966U	PC to radio programming cloning cable with USB connector 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	\$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)



F9011 – F9021 Series

P25 Digital & Analog Portables

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 15	136-174MHz P25 conventional portable, 6W, 512 CH, display, simple keypad	\$2,020.00
F9011S 25	136-174MHz P25 Conventional portable, 6W, 512 CH, display, simple keypad	\$1,530.00
F9011T 10	136-174MHz P25 conventional portable, 6W, 512 CH, display, full DTMF keypad	\$1,550.00
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

FAS25V	136-148 MHz flexible antenna - F9011 series	\$10.00
FAS58U	400-470 MHz flexible antenna - standard on F9021	\$16.00
FAS65V	148-160 MHz flexible antenna - standard on F9011	\$17.00
FAS67VC	136-174MHz cut antenna - F3400/F9011	\$30.00
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

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
MB115	Standard belt clip for F9011 series	\$10.00

Cables

OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00

Carrying Cases

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
NCF9011S CLIP	Nylon carrying case with a clip for the F9011/9021 radios without a full keypad	\$30.00
NCF9011T CLIP	Nylon carrying case with a clip for the F9011T/9021T radios with a full keypad	\$30.00

F9011 – F9021 Series

P25 Digital & Analog Portables

Accessories

Model	Description	MSRP
Chargers		
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 the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
SS BC63	Mobile rapid charger with cigarette adapter for the F9011 series	\$215.00
Encryption & Internal Modules		
INSTALL-MF	Install a component into an LM mobile or portable	\$0.00
UT124R 02	Man down unit	\$90.00
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
Headsets		
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
KVL		
KA KVL125	KVL unit powered by 9-volt battery	\$3,185.00
OPC-IAKVL14	Interface Cable with 14 Pin Connector between F9011/F9021 & KA KVL125	\$230.00
Microphones		
HM184H	14-pin loud waterproof speaker mic (no accessory jack)	\$118.00
HM-HD7I6WP	Large waterproof 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)	\$60.00
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 microhpone with GPS receiver. LCD display shows basic orientation of all members	\$584.00

F9011 – F9021 Series

P25 Digital & Analog Portables

Accessories

Model	Description	MSRP
	within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	
Software & Cables		
CSF9010/F9510	F9011/9511 programming software	\$72.00
OPC1862	PC to radio programming cloning cable with USB connector 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	\$110.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00
Trunking		
ISL-3	P25 trunking upgrade for the F9011/9511 series radios	\$500.00

F7010 – F7020 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, DTCS tone
MDC functions
DTMF autodial



F7010 – F7020 Series

P25 Conventional & Analog Portables

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
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
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

FAS67VC	136-174MHz cut antenna - F3400/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	\$17.00
FAS81VS	136-150MHz stubby antenna for F3400	\$17.00
FAS82U	430-480MHz antenna for F4400	\$17.00
FAS82US	450-490MHz stubby antenna for F4400	\$17.00
FAS82V	148-162MHz antenna for F3400	\$17.00
FAS82VS	150-162MHz stubby antenna for F3400	\$17.00
FAS83U	470-520MHz antenna for F4400	\$17.00
FAS83V	160-174MHz antenna for F3400	\$17.00
FAS83VS	160-174MHz stubby antenna for F3400	\$17.00

Batteries

BP284	Li-ion 7.4V 3210mAh (typical capacity), 3070mAh (minimum value)	\$175.00
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Belt Clips

MB133	Alligator type belt clip	\$17.00
MB136	Swivel belt clip for F1000/F3400/F7010 series	\$15.00
MB96F	Leather belt hanger. Use with standard belt clip.	\$35.00
MB96N	Swivel belt hanger. Use with standard belt clip.	\$37.00

Cables

OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00

F7010 – F7020 Series

P25 Conventional & Analog Portables

Accessories

Model	Description	MSRP
Carrying Cases		
LCF1035SW	Leather case with swivel belt loop and D-ring; display cutout for the F3400DS & F7010S	\$45.00
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 51	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 the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC214-1	Six gang charger for F3400 series (includes AC adapter with US plug)	\$510.00
BC214-1E	Six gang charger for F3400 series (includes AC adapter with Euro plug)	\$510.00
BC219	Rapid charger for radios with the BP283/BP284; 100-240V with a US style plug	\$67.00
BC219E	Rapid charger for radios with the F3400 series; 100-240V with a Euro style plug	\$67.00
BC225	Smart rapid charger; 100-240V with a US style plug	\$135.00
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
SS BC62	Mobile rapid charger with cigarette adapter for the F3400 & F7010 series	\$215.00
Encryption & Internal Modules		
CSKLD2	Encryption key loader software for F3400/F5400 & F7010/F7510 series	\$600.00
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
UT125 FIPS-2	FIPS 140-2 AES encryption board for F7010/F7510 series	\$830.00
UT134	AES/DES encryption board for F3400/F5400 & F7010/F7510 series	\$185.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	\$42.00
VS1MC	VOX/PTT case with 14-pin connector. Must use with HS94/HS95/HS97.	\$84.00
VS3	Bluetooth pendant earpiece microphone w/PTT	\$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
IAHM600	Wireless speaker microphone, which includes charger and charging cable	\$215.00
SP27	Acoustic tube earphone with a clip to attach to clothing	\$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

F7010 – F7020 Series

P25 Conventional & Analog Portables

Accessories

Model	Description	MSRP
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
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
OPC2362	Handheld to mobile zone copy cable (14-pin to 10-pin DIM)	\$100.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00
RSBC225	Battery management software for the BP-283/284. Can connect up to 30 BC-225 chargers to it.	\$250.00
Trunking		
ISL-P25P2	P25 Phase 2 trunking license - available late November/early December	\$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



F5011 - F6011 Series

Basic Analog Mobiles

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 mountable unity antenna, Field Tunable, 1/4 WAVE, CHR	\$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. Comes standard with most mobile radios (9.8ft) and has a 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
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	\$50.22
97715595	F5011 service manual hardcopy	\$31.45
97715696	F6011 service manual hardcopy	\$35.62
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

F5011 - F6011 Series

Basic Analog Mobiles

Accessories

Model	Description	MSRP
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, no 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	\$230.00
ICT IC04 220V	220V power supply and cabinet for control station use for F5011/5021	\$255.00
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-MF	Icom to program your land mobile mainframe	\$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

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



F5021 - F6021 Series

Advanced Analog Mobiles

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 mountable unity antenna, Field Tunable, 1/4 WAVE, CHR	\$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. Comes standard with most mobile radios (9.8ft) and has a 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
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	\$60.00

Manuals

94415499	F5021 CD service manual	\$28.97
94415641	F6021 CD service manual	\$28.97
97715439	F5021 service manual	\$78.87
97715473	F6021 service manual	\$47.99
98815638	F5021/6021 owner's manual	\$17.16

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

F5021 - F6021 Series

Advanced Analog Mobiles

Accessories

Model	Description	MSRP
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, no 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	\$230.00
ICT IC04 220V	220V power supply and cabinet for control station use for F5011/5021	\$255.00
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-MF	Icom to program your land mobile mainframe	\$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



F5121D - F6121D Series

IDAS™ Mobiles

Configurations

Model	Description	MSRP
F5121D 56	136-174MHz IDAS mobile	\$635.00
F6121D 57	400-470MHz IDAS mobile	\$635.00
F6121D 58	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 mountable unity antenna, Field Tunable, 1/4 WAVE, CHR	\$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. Comes standard with most mobile radios (9.8ft) and has a 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.	\$110.00
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Manuals

94415608	F5121D CD service manual	\$28.97
94415695	F6121D CD service manual	\$50.22
97715607	F5121D service manual - hardcopy	\$55.08
97715710	F6121D service manual - hardcopy	\$54.36
98815606	F5121D/6121D owner's manual	\$17.12

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

F5121D - F6121D Series

IDAS™ Mobiles

Accessories

Model	Description	MSRP
Mounting Hardware		
F121 MMB	Mounting bracket F121/F221 F5011/F5021 series	\$10.00
MOUNT 1	NMO Permanent Mount, 17ft RG58 cable, no 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	\$230.00
ICT IC04 220V	220V power supply and cabinet for control station use for F5011/5021	\$255.00
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-RHI1	RedHawk cable connects GPS mic to mobile radio (analog only)	\$115.00
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	\$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

COMES WITH

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



F5220D - F6220D Series

IDAS Trunking Mobiles

Configurations

Model	Description	MSRP
F5220D 01	136-174MHz IDAS mobile	\$695.00
F6220D 01	400-470MHz IDAS mobile	\$695.00
F6220D 21	450-512MHz IDAS mobile	\$695.00

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 mountable unity antenna, Field Tunable, 1/4 WAVE, CHR	\$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. Comes standard with most mobile radios (9.8ft) and has a 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.	\$110.00
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Manuals

94416649	F6220D CD service manual	\$28.97
94416651	F5220D CD service manual	\$28.97
97716648	F6220D hardcopy service manual	\$37.73
97716650	F5220D hardcopy service manual	\$35.40
98816647	F5220D/6220D hardcopy service manual	\$17.12

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

F5220D - F6220D Series

IDAS Trunking Mobiles

Accessories

Model	Description	MSRP
Mounting Hardware		
F121 MMB	Mounting bracket F121/F221 F5011/F5021 series	\$10.00
MOUNT 1	NMO Permanent Mount, 17ft RG58 cable, no 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	\$230.00
ICT IC04 220V	220V power supply and cabinet for control station use for F5011/5021	\$255.00
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-RHI1	RedHawk cable connects GPS mic to mobile radio (analog only)	\$115.00
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	\$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



F5061 - F6061 & F5061D - F6061D Series

Analog, LTR, or IDAS™ Digital Mobiles

Configurations

Model	Description	MSRP
F5061 21	136-174MHz analog only mobile	\$600.00
F5061D 51	136-174MHz IDAS mobile	\$785.00
F5061D 62	136-174MHz IDAS mobile with 512 channels and the HM152. No manual included. LIMITED STOCK. SALE PRICE.	\$825.00
F5061D 61	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 mountable unity antenna, Field Tunable, 1/4 WAVE, CHR	\$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. Comes standard with most mobile radios (9.8ft) and has a 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
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 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)	\$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

Filters

PW LF-1	Noise filter to use with the F5061D with the UT-IA100 already installed.	\$55.00
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F5061 - F6061 & F5061D - F6061D Series

Analog, LTR, or IDAS™ Digital Mobiles

Accessories

Model	Description	MSRP
GPS		
IA-10301	GPS receiver for IDAS mobiles that connects to the DB-25 accessory connector.	\$110.00
Manuals		
94415251	F5061/F6061 CD service manual	\$28.97
97715252	F5061/D service manual - hardcopy	\$28.18
97715259	F6061/D service manual - hardcopy	\$32.45
98815253	F5061/D owner's manual	\$14.34
98815260	F6061/D owner's manual	\$10.46
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
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, no 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
MSA 1421-00LRM	Locking trunnion for F5061/6061	\$53.00
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	\$230.00
ICT IC09 220V	220V power supply and cabinet for control station use for F5061/6061	\$255.00
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-RHI1	RedHawk cable connects GPS mic to mobile radio (analog only)	\$115.00
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

F5061 - F6061 & F5061D - F6061D Series

Analog, LTR, or IDAS™ Digital Mobiles

Accessories

Model	Description	MSRP
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
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	\$110.00
PROGLM6789	Icom to program your radio or IAS product	\$70.00
PROG-MF	Icom to program your land mobile mainframe	\$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



F5360D – F6360D Series

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

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 mountable unity antenna, Field Tunable, 1/4 WAVE, CHR	\$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. Comes standard with most mobile radios (9.8ft) and has a 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

Mounting Hardware

F5061 MMB	Mounting bracket included with the F5061/F6061	\$10.00
MOUNT 1	NMO Permanent Mount, 17ft RG58 cable, no 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	\$230.00
ICT IC09 220V	220V power supply and cabinet for control station use for F5061/6061	\$255.00

Software & Cables

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	\$110.00
OPC2344	Modular connector programming cable plus Type-C NXDN transparent data transfer for	\$135.00

Icom America Inc.

U.S. Land Mobile Retail: Product Catalog

F5360D – F6360D Series

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

Accessories

Model	Description	MSRP
	F5360D/4360D	
PROG-MF	Icom to program your land mobile mainframe	\$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

Meets
MIL-STD 810

MDC 1200
Compatible

F5400D – F6400D Series

VHF UHF Digital Mobile Transceiver

Configurations

Model	Description	MSRP
F5400DS 11	136-174MHz IDAS mobile with numerical display	\$995.00
F5400D 01	136-174MHz IDAS mobile with color display	\$1,040.00
F6400DS 11	380-470MHz IDAS mobile with numeric display	\$995.00
F6400D 01	380-470MHz IDAS mobile with color display	\$1,040.00
F6400DS 31	450-512MHz IDAS mobile with numerical display	\$995.00
F6400D 21	450-512MHz IDAS mobile with color display	\$1,040.00

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-AK25K	Add 25kHz into the radio	\$13.00
QCRRS01	3 year comprehensive radio repair service for IDAS radios	\$0.00

Antennas

UX241	GPS antenna	\$55.00
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Encryption & Internal Modules

CSKLD2	Encryption key loader software for F3400/F5400 & F7010/F7510 series	\$600.00
ISL-AKAES	AES activation code for F3400/F5400 series	\$360.00
UT134	AES/DES encryption board for F3400/F5400 & F7010/F7510 series	\$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
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

MSD CARD	32GB micro SD card	\$30.00
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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)	\$210.00
IAPS12E	Power supply with cover for control station (220VAC; 12A)	\$240.00

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	\$53.00

F5400D – F6400D Series

VHF UHF Digital Mobile Transceiver

Accessories

Model	Description	MSRP
OPC2365	3m/9.8ft separation cable for RMK5/RMK7	\$57.00
OPC2366	5m/16.4ft separation cable for RMK5/RMK7	\$65.00
OPC2367	8m/26.2ft separation cable for RMK5/RMK7	\$80.00
OPC2373	1.9m/6.2ft separation cable for HM218	\$53.00
OPC2374	8m/26.2ft separation cable for HM218	\$80.00
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 cable & microphone not included.	\$650.00
Software & Cables		
CSF3400D	Programming software for the F3400D/F5400D series	\$80.00
CSF3400D	Programming software for the F3400D/F5400D series	\$80.00
CSOTPM1	Over-the-air programming (OTAP) manager software	\$520.00
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	\$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



F1721 - F2721/F2821 Series

High End Analog, P25 Conventional Mobiles

Configurations

Model	Description	MSRP
F2821D 23	400-470MHz analog mobile, upgradeable to P25	\$690.00
F2821D 21	400-470MHz P25 mobile	\$1,299.00
F2821D 22	450-512MHz P25 mobile	\$800.00

Accessories

Model	Description	MSRP
ENGRAVE	Engrave radio	\$0.00
EX2785J01	P25 activation software for F70/80 & F1721/2721 radios	\$680.00
EX2785J02	DES activation upgrade	\$551.00
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 mountable unity antenna, Field Tunable, 1/4 WAVE, CHR	\$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. Comes standard with most mobile radios (9.8ft) and has a 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
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 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

KVL

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

Manuals

94414901	F1721/1821/2721/2821 CD service manual	\$50.22
97714917	F1721/D & F1821/D service manual hardcopy	\$43.69

F1721 - F2721/F2821 Series

High End Analog, P25 Conventional Mobiles

Accessories

Model	Description	MSRP
98814877	F1721/D, F1821/D, F2721/D, F2821/D owner's manual	\$17.12
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, no 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	\$230.00
ICT IC06 220V	220V power supply & cabinet for control station use on P25 radios	\$255.00
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-RHI1	RedHawk cable connects GPS mic to mobile radio (analog only)	\$115.00
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 Softwre 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

F1721 - F2721/F2821 Series

High End Analog, P25 Conventional Mobiles

Accessories

Model	Description	MSRP
OPC1533	Radio to radio cloning cable between F1721/2721/D series mobiles & F70/80/D portable radios	\$88.00
PROGLM6789	Icom to program your radio or IAS product	\$70.00
PROG-MF	Icom to program your land mobile mainframe	\$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)



F9511 - F9521 Series

P25 Trunking Mobiles

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 with no keypad	\$1,605.00
F9511S 21	136-174MHz P25 conventional 50W mobile with no keypad	\$1,690.00
F9511T 15	136-174MHz P25 conventional 50W mobile with keypad	\$1,720.00
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 mountable unity antenna, Field Tunable, 1/4 WAVE, CHR	\$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. Comes standard with most mobile radios (9.8ft) and has a 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
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

KVL

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

F9511 - F9521 Series

P25 Trunking Mobiles

Accessories

Model	Description	MSRP
Manuals		
94415436	F9511 CD service manual	\$50.22
97715423	F9511 service manual - hardcopy	\$62.12
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, no 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	\$230.00
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
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
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

F9511 - F9521 Series

P25 Trunking Mobiles

Accessories

Model	Description	MSRP
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	\$110.00
PROG-MF	Icom to program your land mobile mainframe	\$0.00
Trunking		
ISL-3	P25 trunking upgrade for the F9011/9511 series radios	\$500.00

F7510 – F7520 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



F7510 – F7520 Series

P25 Conventional & Analog Mobiles

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

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

UX241	GPS antenna	\$55.00
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Cables

OPC1132	DC power cable. Comes standard with most mobile radios (9.8ft) and has a 2-pin T connector	\$45.00
OPC347	DC power cable (23ft)	\$70.00

Encryption & Internal Modules

CSKLD2	Encryption key loader software for F3400/F5400 & F7010/F7510 series	\$600.00
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
UT125 FIPS-2	FIPS 140-2 AES encryption board for F7010/F7510 series	\$830.00
UT134	AES/DES encryption board for F3400/F5400 & F7010/F7510 series	\$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

Headsets

VS3	Bluetooth pendant earpiece microphone w/PTT	\$149.00
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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
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F7510 – F7520 Series

P25 Conventional & Analog Mobiles

Accessories

Model	Description	MSRP
IAPS12	Power supply with cover for control station (120VAC; 12A)	\$210.00
IAPS12E	Power supply with cover for control station (220VAC; 12A)	\$240.00
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	\$53.00
OPC2365	3m/9.8ft separation cable for RMK5/RMK7	\$57.00
OPC2366	5m/16.4ft separation cable for RMK5/RMK7	\$65.00
OPC2367	8m/26.2ft separation cable for RMK5/RMK7	\$80.00
OPC2373	1.9m/6.2ft separation cable for HM218	\$53.00
OPC2374	8m/26.2ft separation cable for HM218	\$80.00
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 cable & microphone not included.	\$650.00
Software & Cables		
CSF7510	Programming software for the F7010 & F7510 P25 radios	\$100.00
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	\$0.00
Trunking		
ISL-P25P2	P25 Phase 2 trunking license - available late November/early December	\$420.00
ISL-P25TR	P25 Phase 1 trunking license	\$500.00



U.S. Land Mobile Retail
Product Catalog

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U.S. Marine Retail Product & Price Catalog

August 2017



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www.icomamerica.com/downloads

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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	\$215.00
M25 WHITE	5W floating marine VHF handheld in pearl white	\$215.00
M25 BLUE	5W floating marine VHF handheld in marine blue	\$215.00

Accessories

Model	Description	MSRP
Antennas		
FASC59V	Standard antenna M25/M92D/M93D	\$18.00
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	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00

M36

VHF Marine Transceiver

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

M36

VHF Marine Transceiver

Configurations

Model	Description	MSRP
M36	6W marine VHF handheld with battery, charger included	\$288.00

Accessories

Model	Description	MSRP
Antennas		
FASC58V	Standard antenna M24/M34/M36	\$11.00
Batteries		
BP251	Alkaline case for M34/M36 (5 x AAA)	\$35.00
BP252	7.4V 980mAh Li-Ion battery (M36/M34)	\$68.00
Belt Clips		
MB109	Belt clip for the M34/M36/M92D	\$9.00
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	\$44.00
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.	\$57.00
BC173 01	Desktop trickle charger (M34/M36) requires BC-147S	\$21.00
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
Manuals		
94416500	M36 CD service manual	\$28.49
97715432	M36 service manual hardcopy	\$29.21
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	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00

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



Configurations

Icom America Inc.

U.S. Marine Retail: Product & Price Catalog

M73

VHF Marine Transceiver

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

Accessories

Model	Description	MSRP
Antennas		
AD92SMA	Antenna connector adapter to connect a BNC-type antenna	\$20.00
FAS64V	M72/M73 flexible antenna 4 17/32" (115mm)	\$15.00
Batteries		
BP245N	7.4V 2000mAh Li-Ion battery for M72/M73	\$90.00
Belt Clips		
MB103	Alligator belt clip	\$12.50
MB86	Swivel belt clip that screws into back of radio	\$11.00
MB96F	Leather belt hanger. Use with the MB103/Y, MB94 or MB98.	\$35.00
MB96N	Swivel belt hanger. Use with the MB103/Y, MB94 or MB98.	\$37.00
Cables		
OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00
Chargers		
AD129	Adapter cup for BC197 gang charger for M73	\$27.00
BC123SA 51	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 the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
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 16	Rapid charger for the BP-245N (requires BC-123S AC adapter)	\$61.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	\$42.00
OPC1392	Headset adapter to use HS94/95/97 for the M73/M72/GM1600/M90 handhelds	\$75.00
Microphones		
HM167	Lightweight IPX8 waterproof speaker mic M73/GM1600/M92/M72	\$97.00
HM202	Compact IPX7 waterproof speaker mic M73/M72	\$125.00
Software & Cables		
CSM73	Programming software for the M73	\$95.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00
OPC922	Cloning cable adapter for M72/M73/M92D	\$65.00

M88

VHF Marine Transceiver

SPECS

Output Power:	5W, 3W, 1W
Waterproof Rating:	JIS7
Frequencies:	
Marine Tx:	156.025-157.425MHz
Marine Rx:	156.050-163.275MHz
LMR Tx/Rx:	146.000-174.000MHz
Usable Channel Groups:	INT, USA, CAN, WX
	22 LMR
Type of Emission:	
Marine	16K0G3E (Wide)
LMR	16K0F3E (Wide)
	8K50F3E (Narrow)
Current Drain:	Tx (at 5W output): 1.6A
	Rx (at AF max): 200mA
Weight:	9.9oz



FEATURES

Tough construction, superior waterproofing
Simple operation
22 programmable channels for land use
Auto WX scan and WX Alert function
Simple Up/Down switches for operating channel selection
Instant access to Ch. 16 and Ch. 9 (or call channel)
Simple add/delete TAG scanning operation
Powerful 5W output
2 step power saver
4 level battery indicator
The self check function checks internal temperature, connected battery voltage (over voltage detection), and water intrusion

COMES WITH

Battery pack (BP227)
Battery charger (BC152)
AC adapter (BC147SA)
Swivel belt clip
Antenna (FAS59V)
Hand strap
Owner's manual
Warranty: 3 years



M88

VHF Marine Transceiver

Configurations

Model	Description	MSRP
M88 NI	Nonincendive marine VHF handheld; 5W w/22 programmable channels	\$507.00
M88 01	Marine VHF handheld; 5W with 22 programmable channels	\$444.00

Accessories

Model	Description	MSRP
Antennas		
AD92SMA	Antenna connector adapter to connect a BNC-type antenna	\$20.00
FAS59V	150-174MHz standard antenna for the F50 & M88 (red ring)	\$13.00
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	\$110.00
BP227UL	Nonincendive li-ion 7.2V 1950mAh (typical capacity), 1850mAh (minimum value) battery	\$160.00
Belt Clips		
MB86	Swivel belt clip that screws into back of radio	\$11.00
MB96F	Leather belt hanger. Use with the MB103/Y, MB94 or MB98.	\$35.00
MB96N	Swivel belt hanger. Use with the MB103/Y, MB94 or MB98.	\$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 BC121N or BC197 gang chargers	\$12.00
Carrying Cases		
LCM88L	M88 Leather Case With Loop	\$40.00
LCM88S	M88 Leather Case With Swivel	\$40.00
NCM88	Nylon carrying case with a clip for the F50/60 & M88 radios	\$26.00
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 with Euro style plug	\$76.00
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 the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
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	\$35.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00

M88

VHF Marine Transceiver

Accessories

Model	Description	MSRP
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	\$42.00
OTTO V410399	Skull Mic System w/earcup and 80mm body PTT for F30G/40G and M88	\$650.00
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		
94414628	M88 CD service manual	\$28.97
97714627	M88 service manual hardcopy	\$50.94
98814613	M88 owner's manual	\$69.74
Microphones		
HM138	Waterproof 9-pin marine style speaker mic (IS approved for F50/F60/M88/F70/F80)	\$130.00
OTTO V210314	Evolution heavy duty mic with hi/lo volume switch, 2.5mm earphone jack and 9-pin connector	\$140.00
Miscellaneous		
AD52	Earphone adapter for the F3161/F4161/F30G/M88	\$25.00
Software & Cables		
CSM88	M88 programming software	\$66.00
OPC966U	PC to radio programming cloning cable with USB connector for radios with 9-pin connector	\$168.00

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	\$470.00

Accessories

Model	Description	MSRP
Antennas		
FASC59V	Standard antenna M25/M92D/M93D	\$18.00
Batteries		
BP285	Li-ion 7.2V 1570mAh (typical), 1485mAh (minimum) battery for M93D	\$110.00
Belt Clips		
MB133	Alligator type belt clip	\$17.00
MB96F	Leather belt hanger. Use with the MB103/Y, MB94 or MB98.	\$35.00
Cables		
OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00
Chargers		
BC123SA 51	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 the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC214 14	Gang charger for the M93D. Includes the BC157.	\$515.00
BC220	Rapid charger for the M93D	\$65.00
CP25	Cigarette lighter cable to use with BC-204 trickle charger	\$27.00
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	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00

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
Optional 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

Battery pack (BP224)
Battery pack (BP234)
Battery charger (BC158)
AC adapter (BC147SA)
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 21K	GMDSS VHF handheld for survival crafts with spare BP-234 battery	\$1,090.00

Accessories

Model	Description	MSRP
Antennas		
FAS61V	Standard antenna for GM1600	\$12.00
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.	\$218.00
Belt Clips		
MB103Y	Yellow alligator belt clip for the GM1600	\$14.00
MB86	Swivel belt clip that screws into back of radio	\$11.00
MB96F	Leather belt hanger. Use with the MB103/Y, MB94 or MB98.	\$35.00
MB96N	Swivel belt hanger. Use with the MB103/Y, MB94 or MB98.	\$37.00
Cables		
OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00
Carrying Cases		
NCP1	Nylon chest pack	\$44.00
Chargers		
AD109	Adapter cup fits the BC119N/BC121N for the GM1600/M90	\$18.00
BC119N 01	Rapid charger requiring radio specific adapter cup; 100-240V with a US style plug (not CEC compatible for Amateur/Marine radios)	\$75.00
BC119N 02	Rapid charger requiring radio specific adapter cup; 100-240V with Euro style plug	\$76.00
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 the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC158 01	Desktop trickle charger (GM1600 & M90)	\$18.00
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	\$42.00
OPC1392	Headset adapter to use HS94/95/97 for the M73/M72/GM1600/M90 handhelds	\$75.00
Manuals		
94414927	GM1600 CD service manual	\$16.95

GM1600

Survival Craft 2-Way VHF Radio

Accessories

Model	Description	MSRP
97715149	GM1600 service manual hardcopy	\$31.79
98815160	GM1600 owner's manual	\$12.84
Microphones		
HM167	Lightweight IPX8 waterproof speaker mic M73/GM1600/M92/M72	\$97.00
Software & Cables		
CSGM1600	GM1600 programming software	\$65.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$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	\$37.00

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	\$60.00
Microphones		
HM195B	Command Mic IV ith yellow backlit LCD in black	\$229.00
HM195GB	CommandMic IV with white backlit LCD in black	\$229.00
HM195GW	CommandMic IV with white backlit LCD in super white	\$229.00
HM195SW	Command Mic IV ith yellow backlit LCD in super white	\$229.00
OPC1541	6.1m/20ft extension cable to use with the COMMANDMIC III/IV with the OPC1540. Up to 2 OPC-1541 can be connected.	\$55.00
Miscellaneous		
IUK2CMA	Dual COMMANDMIC adapter	\$570.00
Navigation		
MA500TR KIT	AIS Transponder & MXG-500S GPS receiver	\$1,065.00

M324 – M324G

VHF Marine Transceiver

SPECS

Output Power:	25W, 1W (High, low)
Waterproof Rating:	IPX7 (submersible protection)
Frequencies:	Tx: 156.025–157.425MHz Rx: 156.050–163.275MHz Ch. 70: 156.525MHz
Usable Channel Groups:	USA, INT, CAN and WX
Type of Emission:	FM (16K0G3E) DSC (16K0G2B)
Current Drain:	Tx (at 25W output): 5.5A Rx (AF max): 1.5A
Weight:	1200g; 2.65lb



FEATURES

- Built-in GPS receiver (M324G)
- Intuitive user interface
- Built-in Class D DSC capability (ITU-R M493-13)
- NMEA 0183 input/output for common GPS/NAV interface
- AIS Target Call with AIS Transponder, MA-500TR
- MarineCommander™ compatible
- NMEA 0183 connectivity
- Favorite channel function
- AquaQuake™ draining function
- Weather channels with alert function
- Dual/tri-watch function for monitoring Ch.16 and/or call channel
- Black and super white versions available
- Amber LCD and keypad backlighting

COMES WITH

- Hand microphone (HM-164B/SW)
- DC power cable (OPC-891A)
- Mounting bracket kit
- Owner's manual
- Warranty: 3 years

IPX7

M324 – M324G

VHF Marine Transceiver

Configurations

Model	Description	MSRP
M324 01	Black	\$327.00
M324 02	Super white	\$327.00
M324G 21	Black with GPS	\$420.00
M324G 22	Super white with GPS	\$420.00

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
Microphones		
HM200B	Standard speaker microphone for the M324/G in black	\$65.00
HM200SW	Standard speaker microphone for M324/G in super white	\$65.00
Mounting Hardware		
MB132	Flush mount kit for M324/G/M424/G	\$37.00
Navigation		
MA500TR KIT	AIS Transponder & MXG-500S GPS receiver	\$1,065.00
Software & Cables		
CSM324	Programming software for the M324 fixed mount	\$100.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00

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	\$60.00
Microphones		
HM195B	Command Mic IV ith yellow backlit LCD in black	\$229.00
HM195GB	CommandMic IV with white backlit LCD in black	\$229.00
HM195GW	CommandMic IV with white backlit LCD in super white	\$229.00
HM195SW	Command Mic IV ith yellow backlit LCD in super white	\$229.00
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.	\$55.00
Miscellaneous		
IUK2CMA	Dual COMMANDMIC adapter	\$570.00
Mounting Hardware		
MB132	Flush mount kit for M324/G/M424/G	\$37.00
Navigation		
MA500TR KIT	AIS Transponder & MXG-500S GPS receiver	\$1,065.00
Software & Cables		
CSM92D/M424	Programming software for M92D & M424	\$90.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00
OPC980	Cloning cable adapter for M424/M504/M604	\$31.00

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
Encryption & Internal Modules		
UT112	Digital voice scrambling unit - 32 Codes	\$160.00
External Speakers		
SP37	40W hailer/speaker for fixed mounts	\$60.00
Microphones		
HM195B	Command Mic IV ith yellow backlit LCD in black	\$229.00
HM195GB	CommandMic IV with white backlit LCD in black	\$229.00
HM195GW	CommandMic IV with white backlit LCD in super white	\$229.00
HM195SW	Command Mic IV ith yellow backlit LCD in super white	\$229.00
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.)	\$49.00
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.	\$55.00
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.	\$49.00
Mounting Hardware		
MB132	Flush mount kit for M324/G/M424/G	\$37.00
MB75	Flush mount kit for mounting controller or speaker to a panel for M506/M605/M504/M604/MA500TR/M502/M602	\$35.00
Navigation		
MA500TR KIT	AIS Transponder & MXG-500S GPS receiver	\$1,065.00
UX231	AIS receive board for M506	\$200.00
Software & Cables		
CSM506	M506 programming software. Requires OPC-478UC + OPC-980 cables.	\$120.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00
OPC980	Cloning cable adapter for M424/M504/M604	\$31.00

M604 EXPORT ONLY

VHF Marine Transceiver

SPECS

Output Power:	25W, 1W
Waterproof Rating:	IPX7 (submersible construction)
Frequencies:	Tx: 156.025–157.425MHz Rx: 156.050–163.275MHz
Usable Channel Groups:	USA, CAN, INT and WX
Type of Emission:	FM (16K0G3E) DSC (16K0G2B)
Current Drain:	Tx (at 25W output): 5.5A Rx (Max audio): 1.5A
Weight:	3.09lb



FEATURES

- Compatible with the new MA500TR – Class B AIS Transponder
- Compliant to new FCC Class D DSC Regulations
- Superior receiver performance
- Large LCD with dot-matrix characters
- 30 Watt 2-way hailer capability
- Built-in ITU Class-D DSC
- Position request and position report
- Improved GPS information indication
- Front and rear panel microphone connection
- RX speaker function
- Favorite channel function
- Dual/tri-watch function for monitoring Ch.16 and/or call channel
- 7 levels adjustable backlit display and keypad
- Optional voice scrambler, UT-112 for private communication
- Weather channels with weather alert function
- AquaQuake™ water draining function emits a vibrating sound and clears water away from the speaker grill

COMES WITH

- Hand microphone (HM126RB/RG)
- DC power cable (OPC1174)
- Mounting bracket kit
- Owner's manual
- Warranty: 3 years

IPX7



M604 EXPORT ONLY

VHF Marine Transceiver

Configurations

Model	Description	MSRP
M604A 41	Black radio	\$987.00

Accessories

Model	Description	MSRP
Cables		
OPC1174	M602/M604 DC power cord	\$14.00
Encryption & Internal Modules		
UT112	Digital voice scrambling unit - 32 Codes	\$160.00
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	\$83.00
HM157B 11	Black CommandMic II	\$141.00
HM157SW 12	Super white CommandMic II	\$141.00
HM162B	Command Mic III black	\$245.00
OPC1000	6.1m/20ft connection cable to use with the HM126RB/RG/HM205RB/HM157 (mounting hardware req.)	\$49.00
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.	\$55.00
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.	\$49.00
Mounting Hardware		
M602 MMB	Black Mounting Bracke M602 01	\$29.00
M604G MMB	Gray mounting bracket for M604	\$29.00
MB75	Flush mount kit for mounting controller or speaker to a panel for M506/M605/M504/M604/MA500TR/M502/M602	\$35.00
Software & Cables		
CSM604A	M604A programming software	\$82.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00
OPC980	Cloning cable adapter for M424/M504/M604	\$31.00

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

Configurations

Icom America Inc.

U.S. Marine Retail: Product & Price Catalog

M605

VHF Marine Transceiver

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		
SP37	40W hailer/speaker for fixed mounts	\$60.00
Microphones		
HM195B	Command Mic IV ith yellow backlit LCD in black	\$229.00
HM195GB	CommandMic IV with white backlit LCD in black	\$229.00
HM195GW	CommandMic IV with white backlit LCD in super white	\$229.00
HM195SW	Command Mic IV ith yellow backlit LCD in super white	\$229.00
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.)	\$49.00
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.	\$55.00
OPC2384	12-pin to 8-pin conversion cable to connect HM195 to M605	\$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.	\$49.00
Mounting Hardware		
MB75	Flush mount kit for mounting controller or speaker to a panel for M506/M605/M504/M604/MA500TR/M502/M602	\$35.00
Navigation		
MA500TR KIT	AIS Transponder & MXG-500S GPS receiver	\$1,065.00
UX231	AIS receive board for M506	\$200.00
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	\$25.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$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

COMMANDMIC™



HM157B/SW

Remote-Control Microphone

HM157B/SW

COMMANDMICII™ Complete Remote-Control Option

IP-X7 submersible

Large LCD display with dot matrix

Powerful audio output

Operates w/the M604A, M402, M422, M502, & M602

Compliments the M422 perfectly by powering the radio on

& off and ability to use the hailer feature via the MIC

The COMMANDMICII™ (HM-157B/SW) remote-control microphone size (W x H x D): 65.5 x 100 x 38 mm; 2.5 x 4 x 1.5 in

Weight (approx.; except cables): 1.625 lbs.

Supplied accessories:

- 20ft connection cable (OPC-1000)
- Mounting hardware for OPC-1000
 - Connector cap (part#8930060330)
 - Five screws (part#8810010710)
 - C-plate (part#8310050320)
 - Mic hanger (part#8950007250)



Configurations

Model	Description	MSRP
HM157B 11	Black CommandMic II	\$141.00
HM157SW 12	Super white CommandMic II	\$141.00

Accessories

Model	Description	MSRP
Microphones		
OPC1000	6.1m/20ft connection cable to use with the HM126RB/RG/HM205RB/HM157 (mounting hardware req.)	\$49.00
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.	\$49.00

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 x H x D): 2.66 x 5.69 x 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	\$229.00
HM195GW	CommandMic IV with white backlit LCD in super white	\$229.00
HM195B	Command Mic IV ith yellow backlit LCD in black	\$229.00
HM195SW	Command Mic IV ith yellow backlit LCD in super white	\$229.00

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.	\$55.00
OPC2384	12-pin to 8-pin conversion cable to connect HM195 to M605	\$50.00
Miscellaneous		
IUK2CMA	Dual COMMANDMIC adapter	\$570.00

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 advanced SSB transceiver with DSC - Export 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 CD service manual	\$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/M504/M604/MA500TR/M502/M602	\$35.00
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	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$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 (AFSK), 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
M700PRO 41	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	\$57.07
98812145	M700PRO owner's manual	\$13.35
Microphones		
HM180	Microphone for M710/M700PRO	\$106.00

AIS (Automatic Identification System) Receiver



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
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/M504/M604/MA500TR/M502/M602	\$35.00

MR-1010RII EXPORT ONLY

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-1010RII EXPORT ONLY

Marine Radar

Configurations

Model	Description	MSRP
MR1010RIIE	Marine radar, 4kW, color LCD; Export Only	\$3,750.00

Accessories

Model	Description	MSRP
Miscellaneous		
UX252	Analog TCG output for the MR1010RII	\$280.00

Discontinued Radios



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	\$11.00
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 with Euro style plug	\$76.00
BC145SA 31	AC adapter for BC119N; 100-240V with US style plug	\$25.00
BC157S	AC adapter for the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
BC199SA 12	Wall charger for the M24; 100-240V with a US style plug	\$15.00
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	\$16.95
97715604	M24 service manual hardcopy	\$27.60
98815603	M24 owner's manual	\$16.05
Software & Cables		
CSM24	M24 programming software	\$72.00
OPC2091	Cloning cable adapter for M24	\$35.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$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	M72/M73 flexible antenna 4 17/32" (115mm)	\$15.00
Batteries		
BP245N	7.4V 2000mAh Li-Ion battery for M72/M73	\$90.00
Belt Clips		
MB103	Alligator belt clip	\$12.50
MB86	Swivel belt clip that screws into back of radio	\$11.00
MB96F	Leather belt hanger. Use with the MB103/Y, MB94 or MB98.	\$35.00
MB96N	Swivel belt hanger. Use with the MB103/Y, MB94 or MB98.	\$37.00
Cables		
OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00
Chargers		
AD114	M72 adapter cup for BC119N/BC121N	\$28.00
BC119N 02	Rapid charger requiring radio specific adapter cup; 100-240V with 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 the BC121N/BC197 chargers; 100-240V with US style plug	\$120.00
BC157SE	AC adapter for the BC121N/BC197 chargers; 100-240V with Euro style plug	\$126.00
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 16	Rapid charger for the BP-245N (requires BC-123S AC adapter)	\$61.00
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	\$42.00
OPC1392	Headset adapter to use HS94/95/97 for the M73/M72/GM1600/M90 handhelds	\$75.00
Manuals		
94415064	M72 CD service manual	\$50.22
97715066	M72 service manual hardcopy	\$31.86
98815033	M72 owner's manual	\$15.71
Microphones		
HM167	Lightweight IPX8 waterproof speaker mic M73/GM1600/M92/M72	\$97.00
HM202	Compact IPX7 waterproof speaker mic M73/M72	\$125.00
Software & Cables		
CSM72	M72 Programming Software	\$65.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00

Accessories

Model	Description	MSRP
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00
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/M92D/M93D	\$18.00
Batteries		
BP275	7.4V 1500mAh Li-ion battery for M92D	\$110.00
Belt Clips		
MB109	Belt clip for the M34/M36/M92D	\$9.00
MB96F	Leather belt hanger. Use with the MB103/Y, MB94 or MB98.	\$35.00
Cables		
OPC515L	DC power cable for single unit rapid chargers	\$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	\$12.00
Chargers		
BC123SA 51	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
BC204 12	110V trickle charger (9 hours) for M92D/BP275	\$65.00
BC205 12	110V rapid charger (2.5 hours) for M92D/BP275	\$90.00
CP23L	12V cigarette lighter cable for use with rapid chargers	\$35.00
CP25	Cigarette lighter cable to use with BC-204 trickle charger	\$27.00
CP25H	Cigarette lighter cable to use with BC-210 rapid charger	\$27.00
Microphones		
HM167	Lightweight IPX8 waterproof speaker mic M73/GM1600/M92/M72	\$97.00
Software & Cables		
CSM92D/M424	Programming software for M92D & M424	\$90.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$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	\$16.95
97715573	M412 service manual hardcopy	\$32.89
98815577	M412 owner's manual	\$16.40
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	\$37.00
Navigation		
MA500TR KIT	AIS Transponder & MXG-500S GPS receiver	\$1,065.00
Software & Cables		
CSM412	Programming software for the M412 fixed mount	\$72.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00

M424

The M424 VHF Marine Transceivers are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories

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
Microphones		
HM195B	Command Mic IV ith yellow backlit LCD in black	\$229.00
HM195GB	CommandMic IV with white backlit LCD in black	\$229.00
HM195GW	CommandMic IV with white backlit LCD in super white	\$229.00
HM195SW	Command Mic IV ith yellow backlit LCD in super white	\$229.00
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
OPC1540	6.1m/20ft connection cable to use with the COMMANDMIC III/IV (mounting hardware required)	\$90.00
Miscellaneous		
IUK2CMA	Dual COMMANDMIC adapter	\$570.00
Mounting Hardware		
MB132	Flush mount kit for M324/G/M424/G	\$37.00
Navigation		
MA500TR KIT	AIS Transponder & MXG-500S GPS receiver	\$1,065.00
Software & Cables		
CSM92D/M424	Programming software for M92D & M424	\$90.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00
OPC980	Cloning cable adapter for M424/M504/M604	\$31.00

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
Marine Commander		
MXP5000 01	Main processor unit for Marine Commander	\$4,799.00
Microphones		
HM126B	Standard black front mount mic for M504	\$83.00
HM126RB	Standard black rear mount mic for M504/M604	\$83.00
HM157B 11	Black CommandMic II	\$141.00
HM157SW 12	Super white CommandMic II	\$141.00
HM162B	Command Mic III black	\$245.00
OPC1000	6.1m/20ft connection cable to use with the HM126RB/RG/HM205RB/HM157 (mounting hardware req.)	\$49.00
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.	\$55.00
OPC1542	Extension cable for rear panel mic connections. Use with the HM-126RG/RG microphone.	\$49.00
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.	\$49.00
Mounting Hardware		
M504B MMB	Black mounting bracket for M504/M502	\$29.00
M504G MMB	Gray mounting bracket for M504/M502	\$29.00
MB75	Flush mount kit for mounting controller or speaker to a panel for M506/M605/M504/M604/MA500TR/M502/M602	\$35.00
Software & Cables		
CSM504	M504A programming software	\$79.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00
OPC980	Cloning cable adapter for M424/M504/M604	\$31.00

MXA5000

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

SPECS

Frequencies:	161.975MHz (Ch 87B) 168.025MHz (Ch 88B)
Type of Emission:	16K0F1(GMSK)
Weight (mounting brackets attached):	14.1oz (without angle) 16.2oz (angle attached)
DATA Input Interface:	IEC 61162-1:2000 (4,800 bps)
Sentence Format:	RMC, GGA, GNS, GLL
Input Level:	Less than 2mA (when 2V applied)
DATA Output Interface:	IEC 61162-2 (38, 400bps)
To Navigation Equipment:	RS-422 balanced
Sentence Format:	VDM
Output Level:	5V, 40mA Max
To PC:	RS-232C unbalanced
Sentence Format:	VDM
Output Level:	±5V, ±35mA typ.



FEATURES

Dual channel receive capability Compliant to new FCC Class D DSC Regulations

Dual mode data output

Built-in antenna splitter to share one antenna

GPS data multiplex

Compact size and light weight body

AIS: Automatic Identification System receiver will pick up real- time transmissions from vessels that use an AIS transporter. Such transponders are now required for SOLAS vessels by SOLAS regulations.

The AIS transponder sends accurate navigation information such as:

- Static information – vessel call sign, name MMSI number, dimensions and type
- Voyage-related information – draft, cargo type, destination and estimated time of arrival
- Dynamic information – time in universal time, coordinated, latitude/longitude position, course over ground, speed over ground heading, rate of turn and navigation status

COMES WITH

Mounting bracket kits

DC power cable

Owner's manual

Warranty: 3 years non-waterproof

Accessories

Model	Description	MSRP
Cables		
OPC1954	Power cable for the MXA5000	\$12.00
Manuals		
94415463	MXA5000 CD service manual	\$50.22
97715456	MXA5000 service manual - hardcopy	\$25.44
98815457	MXA5000 owner's manual	\$20.54
Marine Commander		
MXP5000 01	Main processor unit for Marine Commander	\$4,799.00



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November 2017



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Icom America Inc.

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

X-BAND REPEATER

Cross Band VHF & UHF

Configurations

Model	Description	MSRP
IAS X-BAND 50	VHF FM & UHF FM cross band repeater	\$2,500.00
IAS X-BAND 50 AIR U	Airband AM & UHF FM cross band repeater	\$3,330.00
IAS X-BAND 50 AIR V	Airband AM & VHF FM cross band repeater	\$3,330.00
IAS X-BAND 50 UU	UHF FM & UHF FM cross band repeater	\$2,500.00
IAS X-BAND 50 VV	VHF FM & VHF FM cross band repeater	\$2,500.00

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
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	42x19 welded steel 2-post rack; 24U, 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

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

CY5000 – CY6000 Repeaters

All In One IDAS™ Digital & Analog Repeater

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
IASDUP1011	144-174MHz 4 cavity, 350W duplexer, 600kHz TX-RX separation; 32" tall	\$2,665.00
IASDUP1012	144-174MHz 6 cavity, 350W duplexer, 400kHz TX-RX separation; 32" tall	\$4,400.00
IASDUP1015	152-175MHz 50W internal duplexer for the FR5000 or CY5000 (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 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

CY5000 – CY6000 Repeaters

All In One IDAS™ Digital & Analog Repeater

Accessories

Model	Description	MSRP
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
Miscellaneous		
CT24	Digital voice converter (supplied with RCFS10 and works with VEPG3)	\$1,200.00
VEPG3	ROIP gateway	\$1,900.00
VEPG3E	ROIP gateway with US & Euro style plugs in the box	\$1,450.00
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		
IAS2PA152	136-174 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,615.00
IAS2PA153	136-174 100W 2RU additional power amplifier (fits next to IASE2PA152 in chassis)	\$3,265.00
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 IASE2PA351 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 IASE2PA505 in chassis)	\$3,400.00
IAS2PA510	440-470MHz 100W 2RU additional power amplifier (fits next to IASE2PA506 in chassis)	\$3,400.00
IAS2PA511	470-490MHz 100W 2RU additional power amplifier (fits next to IASE2PA507 in chassis)	\$3,400.00
IAS2PA512	480-520MHz 100W 2RU additional power amplifier (fits next to IASE2PA508 in chassis)	\$3,400.00
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	\$265.00
IASPS1022	12V/30A PS/battery charger; 1RU	\$830.00
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

CY5000 – CY6000 Repeaters

All In One IDAS™ Digital & Analog Repeater

Accessories

Model	Description	MSRP
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	42x19 welded steel 2-post rack; 24U, 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
RCFS10	Remote Communicator software + CT-24 (digital voice converter unit - each IDAS system requires 1 CT-24)	\$1,820.00
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		
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

MULTITRUNK

IDAS
ICOM DIGITAL ADVANCED SYSTEM

FR5000 - FR6000 Series

IDAS Digital & Analog Repeater

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)	\$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 01 + URFR6000 41)	\$2,695.00
FR6000 11 UR KIT	450-512MHz, 2 channel analog/digital repeater (FR6000 11 + URFR6000 51)	\$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
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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
IASDUP1011	144-174MHz 4 cavity, 350W duplexer, 600kHz TX-RX separation; 32" tall	\$2,665.00
IASDUP1012	144-174MHz 6 cavity, 350W duplexer, 400kHz TX-RX separation; 32" tall	\$4,400.00
IASDUP1015	152-175MHz 50W internal duplexer for the FR5000 or CY5000 (6-15MHz minimum separation)	\$510.00

FR5000 - FR6000 Series

IDAS Digital & Analog Repeater

Accessories

Model	Description	MSRP
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 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
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
Miscellaneous		
CT24	Digital voice converter (supplied with RCFS10 and works with VEPG3)	\$1,200.00
VEPG3	ROIP gateway	\$1,900.00
VEPG3E	ROIP gateway with US & Euro style plugs in the box	\$1,450.00
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

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U.S. Land Mobile Retail: Product Catalog

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FR5000 - FR6000 Series

IDAS Digital & Analog Repeater

Accessories

Model	Description	MSRP
Power Amplifiers		
IAS2PA152	136-174 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,615.00
IAS2PA153	136-174 100W 2RU additional power amplifier (fits next to IASE2PA152 in chassis)	\$3,265.00
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 IASE2PA351 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 IASE2PA505 in chassis)	\$3,400.00
IAS2PA510	440-470MHz 100W 2RU additional power amplifier (fits next to IASE2PA506 in chassis)	\$3,400.00
IAS2PA511	470-490MHz 100W 2RU additional power amplifier (fits next to IASE2PA507 in chassis)	\$3,400.00
IAS2PA512	480-520MHz 100W 2RU additional power amplifier (fits next to IASE2PA508 in chassis)	\$3,400.00
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	\$265.00
IASPS1020	20A power supply 13.8VDC, 120/220V; 2RU rack mountable	\$500.00
IASPS1021	20A power supply 13.8VDC; 2nd PS for IASPS1020	\$365.00
IASPS1022	12V/30A PS/battery charger; 1RU	\$830.00
IASPS1035	Single 35A module power supply - 2RU rack mountable (4 module capable)	\$1,300.00
IASPS1036	Additional 35A power module (mounts inside the IASPS1070)	\$430.00
IASPS1070	Dual module 70A power supply - 2RU rack mountable (4 module capable)	\$1,650.00
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	\$145.00
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	42x19 welded steel 2-post rack; 24U, 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
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

FR5000 - FR6000 Series

IDAS Digital & Analog Repeater

Accessories

Model	Description	MSRP
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	\$501.00
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

FR5200H - FR6200H Series

IDAS Digital & Analog 50W 100% Duty Cycle Repeater

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
IASDUP1011	144-174MHz 4 cavity, 350W duplexer, 600kHz TX-RX separation; 32" tall	\$2,665.00
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 TX-RX separation	\$2,050.00

External Speakers

SP35	5W external speaker with 3.5mm speaker jack and 2m cable	\$60.00
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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

Miscellaneous

VEPG3	ROIP gateway	\$1,900.00
VEPG3E	ROIP gateway with US & Euro style plugs in the box	\$1,450.00

Power Amplifiers

IASE2PA152	136-174 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,615.00
IASE2PA153	136-174 100W 2RU additional power amplifier (fits next to IASE2PA152 in chassis)	\$3,265.00
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
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

FR5200H - FR6200H Series

IDAS Digital & Analog 50W 100% Duty Cycle Repeater

Accessories

Model	Description	MSRP
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
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	\$265.00
IASPS1020	20A power supply 13.8VDC, 120/220V; 2RU rack mountable	\$500.00
IASPS1021	20A power supply 13.8VDC; 2nd PS for IASPS1020	\$365.00
IASPS1022	12V/30A PS/battery charger; 1RU	\$830.00
IASPS1035	Single 35A module power supply - 2RU rack mountable (4 module capable)	\$1,300.00
IASPS1036	Additional 35A power module (mounts inside the IASPS1070)	\$430.00
IASPS1070	Dual module 70A power supply - 2RU rack mountable (4 module capable)	\$1,650.00
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	42x19 welded steel 2-post rack; 24U, 1,500lb weight capacity	\$1,025.00
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	\$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	\$71.82
UCFR5000 01	Trunking/Network controller board (1 per repeater)	\$500.00

IAS 120D – 150D Series

High-Power Digital & Analog Repeater

SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	100/120/150W at 100% duty cycle
Channels:	32
Channel Spacing:	6.25 (digital) / 12.5kHz
LCD Display:	16-digit dot matrix Display
Programmable buttons:	5
Scan:	Normal & priority



FEATURES

- SNMP capable
- Two amps can be mounted side by side—eliminating an additional rack space concerns and also marry up nicely with the dual FR5000 configuration
- Full remote control and monitoring of over 16 sensors and alarms via SNMP v2C
- 5 individual internal heat sensors
- 4 GPIO for customized usage
- 70 Amp power supply with smart charging external battery technology – modular design load capacity and expandable to 140 amp load capacity
- 15 Amp A/C surge suppression panel with 1750 joules A/C surge suppression – SASD technology
- E2-IP.PA is a 2 RU unit, with an input of 1-3 Watts and an output of 2 - 120 Watts (UHF) or 2 - 150 Watts (VHF) output.
- Operates on DC voltage

SIGNALING

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

ENC RYPTION

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

COMES WITH

FR5000 or FR6000
VHF or UHF power amplifier
Power supply (IASPS1070)
AC surge suppression panel
Cabinet/rack not included
Warranty : 2-Year

Third party components noted are subject to change or substitution.



IAS 120D – 150D Series

High-Power Digital & Analog Repeater

Configurations

Model	Description	MSRP
IAS 120DU1 PS	440-470MHz 120W public safety repeater (8RU) with 70Amp power supply and smart charging external battery. Cabinet/rack sold separately.	\$6,795.00
IAS 120DU2 PS	470-490MHz 120W public safety repeater (8RU) with 70Amp power supply and smart charging external battery. Cabinet/rack sold separately.	\$6,795.00
IAS 150DV PS	136-174MHz 150W public safety repeater (8RU) with 70Amp power supply and smart charging external battery. Cabinet/rack sold separately.	\$6,665.00

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		
EMR64534/ENC	148-174 MHz duplexer, 5MHz minimum separation for the IAS 100WD repeater	\$1,547.00
IASDUP1010	144-190MHz 6 cavity 100W duplexer with 3MHz minimum TX-RX separation	\$2,030.00
IASDUP1011	144-174MHz 4 cavity, 350W duplexer, 600kHz TX-RX separation; 32" tall	\$2,665.00
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 TX-RX separation	\$2,050.00
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
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

IAS 120D – 150D Series

High-Power Digital & Analog Repeater

Accessories

Model	Description	MSRP
HM152T	DTMF modular microphone for LM mobile radios	\$90.00
SM26	Desktop microphone with monitor switch for mobile radios	\$90.00
Miscellaneous		
CT24	Digital voice converter (supplied with RCFS10 and works with VEPG3)	\$1,200.00
VEPG3	ROIP gateway	\$1,900.00
VEPG3E	ROIP gateway with US & Euro style plugs in the box	\$1,450.00
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		
IAS2PA152	136-174 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,615.00
IAS2PA153	136-174 100W 2RU additional power amplifier (fits next to IASE2PA152 in chassis)	\$3,265.00
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 IASE2PA351 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 IASE2PA505 in chassis)	\$3,400.00
IAS2PA510	440-470MHz 100W 2RU additional power amplifier (fits next to IASE2PA506 in chassis)	\$3,400.00
IAS2PA511	470-490MHz 100W 2RU additional power amplifier (fits next to IASE2PA507 in chassis)	\$3,400.00
IAS2PA512	480-520MHz 100W 2RU additional power amplifier (fits next to IASE2PA508 in chassis)	\$3,400.00
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	\$265.00
IASPS1070	Dual module 70A power supply - 2RU rack mountable (4 module capable)	\$1,650.00
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	42x19 welded steel 2-post rack; 24U, 1,500lb weight capacity	\$1,025.00

IAS 120D – 150D Series

High-Power Digital & Analog Repeater

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
RCFS10	Remote Communicator software + CT-24 (digital voice converter unit - each IDAS system requires 1 CT-24)	\$1,820.00
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
Trunking/Network Controller		
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

±1.5ppm 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



FR9010 – FR9020 Series

110W Full Duty Cycle P25 Digital Repeater

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

EMR64534/ENC	148-174 MHz duplexer, 5MHz minimum separation for the IAS 100WD repeater	\$1,547.00
IASDUP1010	144-190MHz 6 cavity 100W duplexer with 3MHz minimum TX-RX separation	\$2,030.00
IASDUP1011	144-174MHz 4 cavity, 350W duplexer, 600kHz TX-RX separation; 32" tall	\$2,665.00
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	Service manual CD for FR9010	\$28.97
94416673	Service manual CD for FR9020	\$28.97
97716669	Service manual hard copy FR9010	\$56.67
97716672	Service manual hard copy for FR9020	\$54.64
98816671	Owner's manual FR9010/9020	\$17.12

Microphones

HM-9000	Speaker microphone for the FR9010/9020 repeaters	\$80.00
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Power Amplifiers

IAS2PA152	136-174 100W 2RU power amplifier; 19" rack mountable; requires 13.8V power supply	\$3,615.00
IAS2PA153	136-174 100W 2RU additional power amplifier (fits next to IASE2PA152 in chassis)	\$3,265.00
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 IASE2PA351 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 IASE2PA505 in chassis)	\$3,400.00
IAS2PA510	440-470MHz 100W 2RU additional power amplifier (fits next to IASE2PA506 in chassis)	\$3,400.00
IAS2PA511	470-490MHz 100W 2RU additional power amplifier (fits next to IASE2PA507 in chassis)	\$3,400.00

FR9010 – FR9020 Series

110W Full Duty Cycle P25 Digital Repeater

Accessories

Model	Description	MSRP
IASE2PA512	480-520MHz 100W 2RU additional power amplifier (fits next to IASE2PA508 in chassis)	\$3,400.00
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	\$265.00
IASPS1035	Single 35A module power supply - 2RU rack mountable (4 module capable)	\$1,300.00
IASPS1070	Dual module 70A power supply - 2RU rack mountable (4 module capable)	\$1,650.00
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	42x19 welded steel 2-post rack; 24U, 1,500lb weight capacity	\$1,025.00
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



RF Technologies – Eclipse2 Series

Software-Defined P25 Repeater / Analog Base Station

Configurations

Model	Description	MSRP
RFT P25 400-430	100W P25/analog 400-430MHz repeater with a power supply	\$13,305.00
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	\$13,305.00
RFT P25 136-174	2-120W P25/analog 136-174MHz repeater with a power supply	\$12,905.00
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)	\$9,955.00

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
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		
EMR64534/ENC	148-174 MHz duplexer, 5MHz minimum separation for the IAS 100WD repeater	\$1,547.00
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
IASDUP1035	400-512 4 cavity 100W duplexer, 3MHz TX-RX separation	\$1,895.00
IASDUP1044	440-512 6 cavity 100W duplexer with 3MHz 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
Miscellaneous		
RFT P25-C	P25 firmware upgrade for RFT analog P25 upgradeable repeaters	\$3,428.00
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	42x19 welded steel 2-post rack; 24U, 1,500lb weight capacity	\$1,025.00

RF Technologies – Eclipse2 Series

Software-Defined P25 Repeater / Analog Base Station

Accessories

Model	Description	MSRP
Software & Cables		
IASTUN1001	Icom to tune your system products	\$0.00
PROG-IAS	Icom to program your system products	\$0.00
RFT IP E2-P25	Programming software for RFT 100W P25/analog repeaters	\$445.00



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November 2017



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Icom America Inc.

IP, Data & Other Solutions



IP100H

License-free radio for wireless network (WLAN)

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

IP100H

License-free radio for wireless network (WLAN)

Configurations

Model	Description	MSRP
IP1000C 100	Manages up to 100 radios in a network	\$2,200.00
IP100FS	IP based PC-dispatcher	\$1,650.00
IP100H	IP license-free radio for wireless networks	\$500.00

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	\$29.18
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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	\$25.00
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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
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Carrying Cases

NC100H	Nylon case with a clip for the IP100H	\$25.00
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Chargers

BC202 02	Rapid charger (includes BC-123SA AC adapter in the box 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
BC211E	Rapid rate 6-unit charger 230V European plug - IP100H	\$510.00

Headsets

HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	\$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	\$215.00
HS97	Earphone with throat mic headset; use with VS1/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

Microphones

HM152	Standard microphone for low/mid range mobile radios	\$44.00
HM183LS	Waterproof compact speaker microphone with right angle connector	\$120.00
HM186LS	Compact speaker microphone with slim right angle connector	\$65.00
SM26	Desktop microphone with monitor switch for mobile radios	\$90.00

Miscellaneous

VEPG3	ROIP gateway	\$1,900.00
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IP100H

License-free radio for wireless network (WLAN)

Accessories

Model	Description	MSRP
VEPG3E	ROIP gateway with US & Euro style plugs in the box	\$1,450.00
Mounting Hardware		
MB VP3	Rack mounting shelf for VEPG3/IP1000C	\$100.00
MB99A	Wall mounting bracket VEPG3/IP1000C	\$65.00
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	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	\$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	\$70.00
Wire Kits		
HM153LS	Covert durable microphone with earphone combination (right angle 2-pin connector)	\$175.00
HM166LS	Earphone microphone with two pin right angle connector	\$99.00
WLAN		
AP90M	Wireless LAN access point (no AC adapter included)	\$550.00
IP100FS	IP based PC-dispatcher	\$1,650.00
RSAP3	Access point management software	\$1,500.00

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

VE-PG3

RoIP Gateway

Configurations

Model	Description	MSRP
VEPG3	ROIP gateway	\$1,900.00
VEPG3E	ROIP gateway with US & Euro style plugs in the box	\$1,450.00

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

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
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Miscellaneous

CT24	Digital voice converter (supplied with RCFS10 and works with VEPG3)	\$1,200.00
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Mounting Hardware

MB VP3	Rack mounting shelf for VEPG3/IP1000C	\$100.00
MB99A	Wall mounting bracket VEPG3/IP1000C	\$65.00

Remote Communication

RCFS10	Remote Communicator software + CT-24 (digital voice converter unit - each IDAS system requires 1 CT-24)	\$1,820.00
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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



F5122DD – F6122DD Series

VHF and UHF Data Transceivers

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	\$915.00
F6122DD 02	400-470MHz data transceiver, 9.6k/4.8kbps, 25W, RS232	\$750.00
F6122DD 12	400-470MHz, 9.6k/4.8kbps, 25W, RS232 + ethernet	\$915.00

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. Comes standard with most mobile radios (9.8ft) and has a 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

F8101

HF Transceiver

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

AH-5NV	Fiberglass antenna element (14.8ft) for short range communication. Special order item.	\$1,875.00
AH740	Relay-driven compact automatic tuning antenna 2.5MHz-29.999MHz	\$2,315.00
AH760	1.6MHz-29.999MHz heavy-duty moving coil automatic tuning antenna	\$3,325.00

Cables

OPC2308	GPS/External modem connection cable	\$175.00
OPC2309	Antenna tuner control cable for AT-140/AH-740/AH-760 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
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Microphones

HM192	Remote control microphone for F8101	\$640.00
HM193	Hand microphone for the F8101	\$85.00

Miscellaneous

CFUF8100	Cooling fan unit	\$440.00
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Mounting Hardware

MB126	Mounting bracket for F8101	\$300.00
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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
RMK6	Remote mount kit for the F8101. Separation cable sold separately.	\$360.00

Software & Cables

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	\$0.00



U.S. WLAN
Retail
Product Catalog

Call 800-USA-ICOM

Icom America Inc.

Tab C: References

Below is a list of five (5) agencies within the continental United States which have purchased from Icom America Inc. radios within the last two years. The Response may include additional narratives and/or other information that demonstrates the Respondent's technical expertise.

<p>LA County Metro Transit Authority One Gateway Plaza, Los Angeles, CA 90012-2952</p> <ul style="list-style-type: none"> ○ 30 sites ○ Digital IDAS Network ○ Contract Value: \$6M+ <p>NOTES: contract completed. However, Icom America continues to supply goods and services on a demand basis.</p>	<p>General Services Administration (GSA) Center for IT Schedule Program Arlington, VA Deborah W. Lanier e-deborah.lanier@gsa.gov; p-703.605.2773</p> <ul style="list-style-type: none"> ○ All Icom products, accessories and services. ○ Contract Sales (Past 5yrs): \$7M+ <p>NOTES: Contract is active.</p>
<p>National Association of Procurement Officials (NASPO) Washington State Department of Enterprise Services, Contracts & Legal Services Division 1500 Jefferson St. SE, Olympia, WA 98501 Neva Peckham e-neva.peckham@des.wa.gov; p- 360.407.9411</p> <ul style="list-style-type: none"> ○ Landmobile Radios and supporting accessories. ○ Contract Sales (Past 5yrs): \$5M+ <p>NOTES: Contract is active.</p>	<p>Amtrak 30th Street Station Box 41, Philadelphia, PA 19104 Todd Wolstenholme e-Todd.wolstenholme@amtrak.com; p- 215.349.1086</p> <ul style="list-style-type: none"> ○ Narrowband project, portables, mobiles and base stations ○ Contract Value: \$3M+ <p>NOTES: Contract is active.</p>
<p>Levy County 355 S. Court Street, Bronson, FL 32621 Chief David Knowles - Project Manager p-352.486.5209</p> <ul style="list-style-type: none"> ○ Conventional IDAS Voted Multi-cast system ○ Contract Value: \$1M+ <p>NOTES: contract completed. However, Icom America continues to supply goods and services on a demand basis.</p>	

Tab D: Geographic Areas Served**Company Overview**

Icom, Inc. founded in 1954 as Inoue Communication Equipments Corp. (renamed "Icom" in 1978), has continuously introduced pioneering and epoch-making equipment to the industry. Icom technology has substantially contributed to amateur radio's technical development history, and Icom has grown to become the top manufacturer of amateur radio communication equipment in the world today. From its origin in amateur radio communication equipment, Icom has expanded into VHF/UHF land radio communication equipment, maritime radio communication equipment, avionics and navigation equipment, attaining high reliability and recognition in each field.

The manufacture of high-quality products originates from the most advanced computerized facilities and strictest quality control possible, covering everything from development to trial manufacture to full production. Icom, Inc. (worldwide) currently has 1,300 employees, of which approximately 30% are members of the technical and engineering staff. Icom, Inc. has current maximum capacity of producing 120,000 radios a month. Icom product line consists of over 150 different models/variations of radios, with a current run rate of 100,000 radios a month.

Icom, Inc. has sales offices and branch offices all over the world including Australia, Germany, France, United Kingdom, Spain, Canada and the United States.

Icom America Inc. is Icom, Inc.'s largest subsidiary company and is the U.S. distributor. Icom America Inc. was incorporated in October of 1979 and has continued to gain market share in each of its five major divisions: Amateur, Aviation, Land Mobile, Marine and Receivers.

Amateur

Icom is one of three companies who dominate the worldwide amateur radio market. Currently, Icom enjoys a significant market share position in the amateur business, both worldwide and in the U.S. Currently Icom makes amateur radio products for use in long and short-range communications. Icom also makes advanced technology products allowing worldwide communication relayed through space satellites owned by amateur organizations and manufactures a series of short-wave receivers used for hobby, industrial and government applications.

Aviation

Icom has introduced aircraft handheld, mobile and base radios for use onboard and in field aviation use. These radios are used as primary ground communication as well as ground to air and backup aircraft communication equipment. Icom introduced the first navigation handheld, which also provides navigation information and direction location information. Icom has a current market share in the 50% range.

Land Mobile

Icom joined the land mobile industry nearly two-decades ago. This equipment is used in such areas as fire, public safety activities, as well as security, construction and farming communication. Icom has been awarded major contracts with the U.S. Army for the Soldier Intercom System and the Military Bundle radios.

Marine

Icom has successfully introduced a series of communications equipment for use in the marine industry. Icom's equipment includes long range, ship-to-shore, side band transceivers for worldwide communications from shipboard operations as well as short range VHF communications equipment. In addition, Icom has produced a series of highly advanced, very compact, handheld transceivers for use in communication on marine vessels as well as between marine vessels and shore-to marine applications. While Icom enjoys significant market share in the industry (top three positions), Icom has also won numerous awards for its marine VHF handheld radios as decided and voted by the marine dealers Independent Dealer Association - NMEA. This is a highly prestigious award and reflects the industry's confidence in Icom. Hand held technology and quality.

Systems

Icom America Systems (IAS) offer secure, narrowband-compliant and customizable solutions. IAS designs, assembles and installs trunked or conventional packages that cover large areas such as a campus or plant. Customer-owned systems offer fixed costs, greater privacy, and optional independence from the public power grid.

WLAN

Icom's new radio system for wireless networks is a product that bridges the gap between license-free and licensed radio devices. The system can be connected to an existing WLAN network and allows full duplex communication with reliable sound quality.

Company Organization

Icom America Inc. is led by Hiroshi Nakaoka, President. He has over 30 years experience with Icom, including both at our Home Company in Japan and at Icom America. He is fully engaged and informed on a daily basis on all major projects.

Nick Pennance is our Vice President of Icom America Solutions joined us three-years ago bringing along with him decades of experience in the land mobile-systems products and services.

Jim Backeland, Executive Vice President of both Icom America & Icom Canada. Jim has been with the Icom Family for over 27 years; he is looked upon as a steadfast leader for equipment technologies and improvements therein.

Icom America Inc.'s Government Sales department has in office staff and sales representatives located nationwide. They are engaged on a daily basis to provide the best customer service as well as sales support to our Government customers.

Geographic Coverage

Icom America Inc. is located in Kirkland, Washington at below address.

Icom America Inc.
12421 Willows Road NE
Kirkland, WA 98034
P - 425.450.6090
F- 425.450.6063
E – govsales@icomamerica.com

Icom America Inc. sells to authorized Dealers and U.S. Federal and State and Local Government agencies within United States.

Authorized Dealer Network

Icom America Inc. offers a nationwide distribution channel which allows us to successfully support a countrywide contract that may include a wide-range of requirements such as: sales, support, service, repair, training, system design and much more.

Our dealers are easily located on our website:

<http://www.icomamerica.com/en/dealers/dealers.aspx>

Sales Representatives

Icom America Inc. has the CONUS, AK & HI divided into seven (7) regions assigned by Icom Technical Channel Managers (TCM) who partner with not only our Authorized Dealerships, but also with qualified sales and marketing companies. These individuals proactively promote Icom's quality line of products and services throughout the US and are able to provide professional services to both our valued End-users and esteemed Dealer Network.

Our Partners are easily located on our website:

<http://www.icomamerica.com/idas625/AboutICOM.aspx>

We have been efficiently supporting national contracts such as Houston-Galveston Area Council (HGAC), National Association of State Procurement Officials (NASPO) and General Services Administration (GSA) for over a decade.

Icom America's HGACBuy Program

As a current HGAC Contract Holder, we have set up a custom website available 24/7 for our valued Government End-users. This site is also linked directly to the actual HGAC Contract Page so that all details of this important purchasing vehicle can be accessed quickly:

<http://www.icomamerica.com/en/governmentsales/contracts/hgac/Default.aspx>

Quality Programs

All manufacturing of Icom radios are performed at Icom, Inc.'s factory in Wakayama, Japan. The plant in Wakayama, Japan has been in operation since April 1988, and is ISO 9001:2000 certified along with the Head Office in Osaka, Japan. Enclosed is the quality program manual used at the factory of our Home Company, Icom, Inc. titled "Icom Inc. Quality Manual QA System (Production)".

In an effort to ensure that Icom America offers the highest quality products, before any new product is sold and shipped, it is thoroughly evaluated and tested by our Quality Assurance Team. During that evaluation, if any product issues are discovered, Quality Assurance reports it back to Home Company, where the issue is further examined. If a modification is required, Home Company develops the modification, implements a change into product and sends the modification to Icom America. The Icom America Quality Assurance department then makes a plan on how the modification will be applied to the warehouse inventory and updates the inventory accordingly.

http://www.icom.co.jp/world/company_profile/ge_policy/

Environmental Considerations

Icom designs its radios to comply with all relevant health, safety and environmental protection regulations to ensure the safety of users is maintained to the strictest standards.

Corporate Sales History

Total sales for Icom, Inc. in the past five (5) years are as follows (in USD as thousands):

Year 2013	\$274,904
Year 2014	\$255,398
Year 2015	\$219,699
Year 2016	\$217,512
Year 2017	\$208,237

Certification of a Drug-Free Workplace Program

As a condition of employment, Icom America requires all associates to pass a pre-employment drug screen. To maintain continued employment, the company reserves the right to ask its associates to submit to drug testing for just cause. Just cause includes having an injury or accident on the job, acting in a manner that is potentially harmful to other associates, or causing potential harm to self. Positive results may result in immediate termination or being placed on an unpaid leave of absence until a negative drug screen result can be achieved (up to 30 days leave allowed). Each situation will be handled on a case by case basis.

Diversity

It is Icom's policy and commitment to hire, promote, transfer, and compensate associates, and to determine any employment-related issue, on an equal opportunity basis, without regard to race, sex, age, color, religion, national origin, non-job-related handicap, veteran or marital status, or any other basis of discrimination prohibited by local, state, or federal law. Icom does not tolerate any unfair treatment or harassment based on any of these factors.

Icom is committed to practices that will create effective equal employment opportunities for all associates and applicants.

Tab E: Service Facilities & Personnel**Corporate Sales Office**

The single point of contact at Icom America Inc. for this contract is Kristina Pickering, Government Sales Program Manager. She can be reached by phone at 425.450.6092 or via email at salescontracts@icomamerica.com. Her work hours are from 7:00 AM through 4:00 PM PT, Monday through Friday. The Government Sales & Customer Service Department is available to handle Participant inquiries such as pricing, availability, orders, tracking, etc. Department operating hours are 7:00 AM through 5:00 PM PT, Monday through Friday. They can be reached by phone at 800.306.1403, fax of 425.450.6063 or by email of governmentsales@icomamerica.com.

Upon award of contract, Kristina Pickering will contact H-GAC's offices for orientation and training on the contract. She will then train the Icom America Government Customer Service Team, as well as participating Authorized Dealers. This will ensure that the H-GAC contract is utilized accurately and effectively to assist sales of radio communication equipment to local Government customers.

Authorized Dealer Network

Icom America Inc. offers a nationwide distribution channel which allows us to successfully support a countrywide contract that may include a wide-range of requirements such as: sales, support, service, repair, training, system design and much more.

Our dealers are easily located on our website:

<http://www.icomamerica.com/en/dealers/dealers.aspx>

Small Business Procurement Program

Icom America Inc. provides commercial products and services to ordering activities. We are committed to promoting participation of small, small disadvantaged and women-owned small businesses in our contracts. We pledge to provide opportunities to the small business community through reselling opportunities, mentor-protégé programs, joint ventures, teaming arrangements, and subcontracting. For complete details on this program, please contact our Contract Administration Team at salescontracts@icomamerica.com or call us at 425.450.6092.

Technical Support

After a sale, if technical and or maintenance services are required, they will be handled by our Government Sales department, Service department and our Technical Support department accordingly.

We also have a comprehensive interactive Knowledge Base available 24/7: <http://icom.custhelp.com/>

Our Technical Support can be reached by phone at 800-253-1498 or contact us online: <http://icom.custhelp.com/app/ask/> , Monday through Friday, 4:00 AM through 5:00 PM PST. Land Mobile Technical Support Specialists will be available to assist with any technical related issues.

Our Service department handles all repair and maintenance services, and can be reached by phone at 800-306-1380 or via email at service@icomamerica.com, Monday through Friday, 8:00 AM through 5:00 PM PST. Warranty repairs, non warranty repairs, and extended warranties are all handled by our Service department. To learn more details about how to submit your product in for repair, please visit our Repair Department WebPage: <http://www.icomamerica.com/en/support/repair/default.aspx>

Customer training is provided by our Technical Service Team, our training programs are outlined in detail under the section titled "Training".

If any returns are required of the equipment purchased under the H-GAC contract, the customer must first contact our Government Sales department for a return authorization. A return authorization is required for any returns of equipment. Original sales information is required for any return authorizations, and such requests must be made within thirty days from date of purchase.

Factory and Service Center Locations

Any products sold under the H-GAC contract could be serviced at Icom America, one of the Icom Authorized Service Centers listed below or even at an Authorized Dealer Service Center.

Service Center Location	Products Serviced
Icom America Service Center - Washington 12421 Willows Road NE Kirkland, WA 98034 Phone: (800) 306-1380	Amateur radios Aviation radios Land Mobile radios Marine radios Only FM approved repair facility
Icom Authorized Service Center – California NEXTEC Global, Inc. 2421 West 205th Street, Suite D100 Torrance, CA 90501-1462 Phone: (310) 212-7770 E-Mail: Golan@nextec.us	Land Mobile radios
Icom Authorized Service Center – Florida Williams Communications 5046 Tennessee Capital Blvd Tallahassee, FL 32303 Phone: (800) 649-5783	Marine radios
Icom Authorized Service Center – Illinois AJR International Inc. 300 Regency Drive Glendale Heights, IL 60139 Phone: (888) 616-9600	Aviation radios Land Mobile radios Marine VHF, no SSB
Icom Authorized Service Center – Michigan SAR Technical Services, Inc. 1792 Nash Drive St. Joseph, MI 49085 Phone: (269) 429-2334	Amateur radios, no D-Star Repeaters Aviation radios Marine radios
Icom Authorized Service Center – New York United Radio 5703 Enterprise Parkway East Syracuse, NY 13057 Phone: (877) 349-4266	Aviation radios Land Mobile radios Marine VHF, no SSB

Our Authorized Dealer “Service” Centers are also easily located on our website:

<http://www.icomamerica.com/en/dealers/dealers.aspx>

Icom America Inc. Service department is managed by Dwayne Black. The Service department is open Monday through Friday, 7:00 AM through 5:00 PM Pacific Time. There are qualified service personnel to perform repair and maintenance work on Icom Land Mobile radios.

Typical turnaround time for warranty repair is 7-10 business days. These turnaround times apply to Icom America’s Service department – turnaround times may vary at other service centers. Please contact them directly for additional information.

The service repair rate for non warranty repairs performed at Icom America’s Service Shop is \$87.80 per hour. Independent Icom Authorized Service Centers have different service repair rates and need to be contacted individually.

When an end user requires repair on an Icom radio, they are required to complete the Service Form and return with the units for repair to any of the above Icom authorized service centers.

http://www.icomamerica.com/en/support/downloads/Product-Repair-Checklist_Instructions.pdf

All items for repair must be shipped by a track able service such as UPS or FedEx. A letter describing the problem and name, address, daytime phone number, and billing instructions must be included with the items shipped for repair. End users are required to ship the items to any of the service centers at their cost. If the repair is under warranty, the selected service center will ship back the unit ground service at no charge. If the repair is not under warranty, the selected service center will ship back the unit ground, but shipping will be charged to end user. If different freight method and service is preferred, this must be noted when items are sent in.

Our service department can be contacted at 800-306-1380 for additional information.

Icom America Inc. carries 100% OEM Icom parts to support all of our current product line.

Installation and Service Requirements

Icom America Inc. will deliver and install the initial shipment of radios and ensure they are fully operational and performing properly.

Our Production Team offers installation of boards/modules into Icom's Land Mobile radios before shipping the product to end user. We will also pre-program all Land Mobile radios prior to shipping to ensure that they are operational out of the box, when received by end user. However, all end users are required to submit their frequencies at time of purchase so that their new equipment can be pre-programmed.

Our installation and programming fees are listed below:

Icom Part Number	Action	Price/Radio
IASTUN1001	Tuning fee for duplexers	\$56.25
INSTALLATION AVIONICS	Installation for Avionics	\$56.25
INSTALLATION MARINE	Installation for Marine	\$30.00
INSTALL-IAS	Install a component into a repeater or cabinet	\$56.25
INSTALL-MF	Install a component into an mobile or portable	\$30.00
PROG-IAS	Icom to program your system products	\$56.25
PROG-MF	Icom to program your mobile or portable	\$30.00
PROGRAMMING AVIONICS	Programming for Avionics	\$30.00
PROGRAMMING MARINE	Programming for Marine	\$30.00
SERVICE/SALE BUILD-UP IAS	Hourly rate for custom systems builds	\$120.00

Onsite Installation:

Icom Part Number	Action	Price/Radio
DEALER FIELD INSTALL	Installation of Mobile Radio to Vehicle	\$358.57
DEALER FIELD INSTALL	Installation of Base Station	\$358.57

Icom America Inc. Warranty Process

This is under the assumption the radio has no disqualifying warranty issues contributing to the malfunction of its operation.

1. Upon failure, the customer ships the failed radio to an Icom facility for repair, providing a brief description of what the problem is and any accessories associated with the malfunction. It is highly recommended a Proof of Purchase or Sales Order number be provided to expedite warranty status determination and repair. The www.icomamerica.com/support page provides assistance and forms needed for repair. The customer may contact ICOM America Service Administration upon shipment of the product, but it is not required.
2. The Icom facility receives the radio, validates its condition from shipment. If no damage has been incurred, the radio is assigned a "Work Order" (WO) number and is processed in for repair.
3. If damage has occurred, then the customer will be notified and upon customer instruction and/or carrier resolution, the unit will be processed in with an estimate included for damage repair.
4. Once the unit has been processed, it is assigned to a technician.
5. The technician receives the unit and validates warranty coverage vs. warranty time period and type of problem. The technician reviews the customer and WO notes then repairs and operationally tests the repair to ensure the malfunction has been resolved.
6. All repair actions are documented in the WO system by the technician. Once repaired and considered serviceable, the radio is forwarded to the Quality Control station where the repair and paperwork is reviewed to ensure completeness.
7. Once QC has completed its checks, the radio is forwarded to shipping where it is packed, manifested and shipped back to the customer at Icom America's expense.
8. Upon shipment, if the customer has an Email address, they will receive shipping information such as tracking number.

Under normal circumstances, this process, depending on shipping status, can take three to seven days to complete.

Icom America Inc. Non-Warranty Process

This is under the assumption the radio is out of the warranty time frame or has a disqualifying warranty issues contributing to the malfunction of its operation.

1. Upon failure, the customer ships the failed radio to an Icom facility for repair, providing a brief description of what the problem is and any accessories associated with the malfunction. It is highly recommended a Proof of Purchase or Sales Order number be provided to expedite warranty status determination and repair. The www.icomamerica.com/support page provides assistance and forms needed for repair. The customer may contact ICOM America Service Administration upon shipment of the product, but it is not required.
2. The Icom facility receives the radio, validates it condition from shipment. If no damage has been incurred, the radio is assigned a "Work Order" (WO) number and is processed in for repair. If damage has occurred, then the customer will be notified and upon customer instruction and/or carrier resolution, the unit will be processed in with an estimate included for damage repair.
3. Once the unit has been processed, it is assigned to a technician.
4. The technician receives the unit and validates warranty coverage vs. warranty time period and type of problem. The technician reviews the customer and WO notes. Once the radio is found to be "Out of Warranty", then the technician troubleshoots the radio and provides an estimate for repair to the Service Administration personnel.
5. Service Admin proceeds to contact the customer using Email and primarily voice with the cost estimate for repair. This process will continue twice weekly for up to 30 days. If no contact can be made, the radio will be shipped back to the customer "as is".
6. Once contacted, the customer will either approve or disapprove the estimate.
 - a. Approved, the technician is forwarded the WO and repairs are made. Then the radio is operationally tested ensuring the malfunction has been resolved.
 - b. Denied, the radio is processed to Quality Control (QC) where it is administratively processed, forwarded to shipping and shipped back to the customer at their expense.
7. All repair actions are documented in the WO system by the technician. Once repaired and considered serviceable, the radio is forwarded to the Quality Control station where the repair and paperwork is reviewed to ensure completeness.
8. Once QC has completed its checks, the radio is forwarded to shipping where it is packed, manifested and shipped to back to the customer at the customer's expense.
9. Upon shipment, if the customer has an Email address, they will receive shipping information such as tracking number.
10. Under normal circumstances, this process, depending on estimate process and shipping status, can take four to ten days to complete.

Product Training

Icom America Inc. offers comprehensive training on all equipment purchased directly or through an Authorized Dealer. Outlined below are the various trainings we offer:

1. **Introduction to Programming Icom Radios** - This program is designed to provide the user with a basic understanding of how to install and set up types of cables and hardware needed to program Icom radios.
2. **Radio Operations and Programming** - This course (specific to each radio) will cover digital options and features, analog features, built-in multiple tone signaling capability and scanning, as well as, hands on programming of the product.
3. **Icom Signaling** - This course will help the end user understand the technology and applications of 2 Tone, 5 Tone, and MDC 1200 signaling. Topics include a brief description of the basics of signaling; a basic understanding of signaling features and components; and how to program signaling features in Icom radios.
4. **P25 Certification** - The P25 course will include information on standards, history and background and its capabilities; a detailed description of the system with its protocol, functions, features and programming.
5. **FR5000/6000** - This course will cover capabilities such as the memory capacity, telephone interconnect capability, duplexer and isolator space, built in 2 tone, 5 tone, DTMF encoder and decoder, and additional features, functions, and benefits.
6. **Customized Web Training** – Our Technical Support Team can also customize a course to your specifications and needs. Just provide them with your Icom product training expectations and they will develop a comprehensive online resource for you and your Team!

Icom Part Number	Action	Price/Hour
QTT-OS1D	On-Site Technical Training 1st Day, Up to 6 People	\$ 5,500.00
QTT-OSAD	On-Site Technical Training Additional Days, Up to 6 People	\$ 3,200.00
QTT-OSPH	Technical training from their desk	\$ 175.00

Refer to the Icom America Services brochure provided herein for further details or contact our Technical Support Team for a detailed price quotation.



Icom America Services

Services sell products. This is even more important with products and solutions that are more sophisticated and complex. Icom America's selection of services address this need. Whether you need support one-time or on-going, IA Services will help you succeed.

Field and Design Support

Need help defining, validating, testing, integrating, or troubleshooting your solution? Icom America wants to make our expertise available to you for those challenging situations where you may need assistance. We can come to your site or work in our test labs, whatever is necessary to best support you.

As every case is different, this is a time and materials service. However, we will provide an estimate before we start which we will not exceed without further approval.

We offer a daily rate that includes travel expenses or an hourly rate.

QFS-1D:

Daily rate, 1st day

QFS-AD:

Daily rate, each additional day

QFS-PH:

Hourly rate

24/7/365 Phone Support

When you install a critical system, support doesn't stop at the end of a business day. To ensure you can reach Icom for technical support on your system, Icom is offering 24/7/365 phone support. The phone support is provided on a 'per system' basis. For Icom to be fully prepared when you call, we require full as built drawings, configuration files, and VPN access to the system in order to activate the service.

QTT-24PS-D:

Monthly rate with year contract, default (non-IAS) designed

QTT-24PS-I:

Monthly rate with year contract, IAS designed & tested

Factory Programming & Installations

There are times when you may be short-handed and are unable to handle the radios in your shop. You know what needs to be done but just don't have the time or manpower to do it yourself. Icom can help load cloning files or install option modules into your equipment before we ship the equipment to you. We will perform QA checks prior to shipping so you have records of what is delivered.

These simplified part numbers will cover both radio and systems.

PROG-MF:

Load cloning files (.icf) into handheld and mobile radios

INSTALL-MF:

Install option modules into handheld and mobile radios

PROG-IAS:

Load cloning files (.icf) into system equipment

INSTALL-IAS:

Install option modules into system equipment

ENGRAVE:

Engraving may add up to 1 week on delivery



Technical Training

The complexity of radio is only increasing. Training is essential. Dealers may need specialized training on Icom products or end users will request training of their system at the time of delivery. Icom can help by giving standard product training or building a custom training curriculum specific to a customer's needs. As a dealer, pricing is set-up so you can resell training while making some profit for yourself.

We offer a daily rate that includes travel expenses or an hourly rate.

QTT-OS1D:

Daily rate, 1st day

QTT-OSAD:

Daily rate, each additional day

QTT-OSPH:

Hourly rate

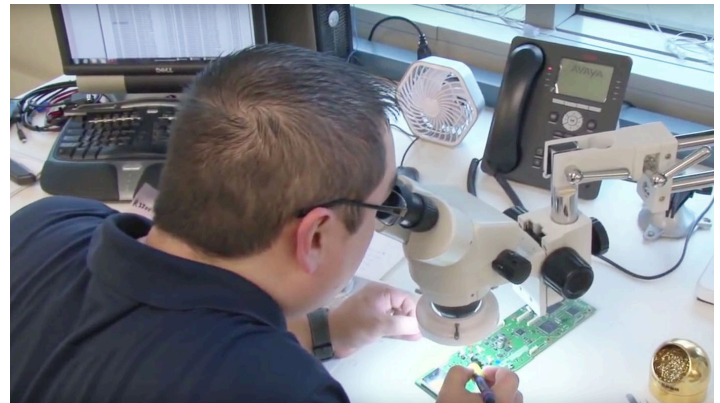
Extended Warranty

Icom offers an optional 1, 2 or 3 year extension to the standard warranty for land mobile radios. The standard warranty on Icom manufactured products covers factory defects in material or workmanship under normal use and service. This warranty is activated from the time of end user purchase, depending upon product. The extended warranty starts after the standard warranty expires.

EXTWARRxx1: 1-year extension

EXTWARRxx2: 2-year extension

EXTWARRxx3: 3-year extension



Comprehensive Radio Repair

When an extended warranty isn't enough, Icom will provide a Comprehensive Radio Repair service on selected radios. If a customer is in a harsh environment that can beat up a radio, Icom will repair or replace it - ground shipping included. CRR covers the extended warranty and adds repairs caused by customer induced damage to the radio, chemical damage is excluded.

QCRRS01:

3-year for IDAS radios

QCRRS09:

3-year for P25 radios



Contact Icom America Inc. for more details and to take advantage of these services.

Icom America Inc.
12421 Willows Road NE
Kirkland, WA 98034
425.454.8155
sales@icomamerica.com
www.icomamerica.com



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Warranty Information

Warranty and Disclaimer

(a) **Sole Warranty.** THE SOLE WARRANTY, IF ANY, PROVIDED BY THE COMPANY TO AN END USER OF A PRODUCT SHALL BE THE END USER WARRANTY (AS SUCH TERM IS DEFINED IN SECTION 1 ABOVE). THE COMPANY MAKES NO WARRANTIES TO THE COOPERATIVE.

(b) **Exclusive Remedy.** IF THE PRODUCT FAILS TO COMPLY WITH THE END USER WARRANTY, , THE COMPANY'S EXCLUSIVE LIABILITY, AND THE EXCLUSIVE REMEDY OF THE END USER TO WHICH THE WARRANTY IS MADE, SHALL BE, AT THE COMPANY'S SOLE OPTION, EITHER (i) REPLACEMENT OF THE DEFECTIVE PRODUCT OR PART, OR (ii) RETURN OF THE PRICE PAID BY SUCH END USER. THE END USER WARRANTY, APPLIES ONLY IF SUCH END USER RETURNS THE DEFECTIVE UNIT OF PRODUCT, TOGETHER WITH PROOF OF PURCHASE, TO THE COOPERATIVE WITHIN THE WARRANTY PERIOD SET FORTH IN THE END USER WARRANTY. THE END USER WARRANTY,, IS VOID IF FAILURE OF THE PRODUCT IS (a) THE RESULT OF OCCURRENCES DURING SHIPMENT TO OR FROM THE COOPERATIVE, (b) CAUSED BY THE USE OR OPERATION OF PRODUCTS IN AN APPLICATION OR ENVIRONMENT OTHER THAN THAT INTENDED OR RECOMMENDED BY THE COMPANY, (c) CAUSED BY MODIFICATIONS NOT MADE BY THE COMPANY, OR (d) THE RESULT OF THE PRODUCT BEING SUBJECTED TO UNUSUAL PHYSICAL OR ELECTRICAL STRESS.

(c) **No Other Warranty.** EXCEPT AS EXPRESSLY PROVIDED IN THIS SECTION 11 AND IN THE END USER WARRANTY, THE COMPANY PROVIDES NO WARRANTY, EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, AND SPECIFICALLY DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO THE PRODUCT AND DOCUMENTATION.

Tab F: Customer Contract/Agreement Documents

A customer will not be required to sign any documentation when they purchase from Icom America Inc. under the H-GAC contract, except for the below listed scenarios.

Purchase Order Discrepancies

Customers will be required to either provide a revised purchase order or if a price outlined under this contract is submitted incorrectly, the customer will not be required confirm in writing to accept proper contract terms, pricing, etc.

Repair Submission Form

Customers will be required to submit the "Repair Submission Form" and include with their product which they may return to one of our Service Centers.

AES & DES Encryption Upgrades

Customers will be required to sign the enclosed "Addendum to Commercial Equipment Dealer Agreement For Project 25 Capable Radio Upgrade" when they wish to upgrade an Icom P25 complaint radio in the field, to full P25 digital with AES and/or DES encryption.

WideBand (25KHz) Authorization

Customers will be required to sign the enclosed "25KHz Uncertified Radio Certification" when they require the radio(s) to be changed from factory setting of narrowband to wideband.

ATEX Radio Authorization

Customers will be required to sign the enclosed "ATEX Sales Agreement" to ensure the Reseller/End-user understands what environments that the Icom ATEX may be used in.

Unblocked Receiver's Affidavit

Customers will be required to sign the enclosed "Unblocked Receiver Certification" is required for those Resellers/End-user's that may require these products which are normally either sold as an export commodity or to the US Federal Government.



REPAIR AUTHORIZATION FORM

*Print two copies; include one in the package
and keep one for your records.*

Company (If Applicable) _____ Dealer Number: _____

First Name: _____ Last Name: _____

Address: _____

City: _____ State/Province: _____ Zip Code: _____

Phone: _____ Fax: _____

Email: _____

Ship To Address (If above address is different.) **NOTE: We are unable to ship to PO boxes, except for Military APO's.**

Address: _____

City: _____ State/Province: _____ Zip Code: _____

Product Information

Find a list of currently unsupported products here: www.icomamerica.com/unsupported-products

Model (Name): _____ Serial Number: _____

Reason for submission/symptoms/problem. If necessary, please include procedure for reproducing issue.
Service Center is not responsible for accessories not listed.*

*Accessories included (Microphones cables, etc.)

Proof of Purchase/Sales Receipt Included?**

☐ Yes ☐ No

Warranty Status:

☐ Warranty ☐ Out of warranty

****Include a date stamped copy of the Sales Receipt if unsure of warranty status.**

Estimate Required? Yes _____ No _____

OR

Pre-Approved Repair Cost \$ _____ (Excludes applicable freight and taxes). The service center will bill your card after the repair. Any number above this number will require an Estimate approval.

NOTE: Unless specified, all return shipments will be "Signature Required".

ICOM AMERICA, INC.

**ADDENDUM TO COMMERCIAL EQUIPMENT DEALER AGREEMENT FOR PROJECT 25
CAPABLE RADIO UPGRADES**

THIS AGREEMENT IS AN **ADDENDUM** TO THE COMMERCIAL EQUIPMENT DEALER AGREEMENT between ICOM AMERICA, INCORPORATED, a Washington Corporation (hereinafter referred to as ICOM) having a principal place of business at 12421 Willows Road NE, Kirkland, WA 98034; AND _____ (hereinafter called "Dealer"), having a principal place of business at _____. ICOM and Dealer agree that on the date this addendum is signed, the current Commercial Equipment Dealer Agreement binding between the parties is dated _____. Dealer is hereby appointed to be an authorized ICOM DIGITAL DEALER for an indefinite period of time for ICOM Project 25 capable radios (hereinafter referred to as "Digital Products") subject to the following terms and conditions:

1. No terms or conditions of the existing commercial equipment dealer agreement between ICOM and Dealer are modified or deleted by this Addendum and all terms and conditions therein shall apply to this Addendum. In the event a term in this Addendum is inconsistent with a term or condition within the commercial equipment agreement, then the term or condition within this Addendum shall take precedence.
2. Dealer understands and agrees that all P25 Firmware Upgrades are a special order and and that no refund or credit will be issued under any circumstances. Dealer acknowledge that Icom America will incur significant costs in the event that the electronic serial number (ESN) that Dealer provides in connection with ordering an upgrade is incorrect. Dealer therefore agrees that, in the event that the ESN that it provides to Icom America is incorrect for whatever reason, no refund or credit will be issued. Further, Dealer agrees that it will be required to submit (and pay for) a new purchase order in the event that it wishes to re-submit the correct ESN for the purpose of ordering an upgrade to the particular radio.
3. Dealer shall not export or re-export any product unless Dealer complies fully with all laws and regulation of the United States, including but not limited to the Export Administration Act of 1979, as amended, and any applicable U.S. administration rules and regulations, including but not limited to the International Traffic in Arms Regulations (ITAR). Specifically, unless all necessary prior authorizations are obtained from the U.S. Department of Commerce or the U.S. Department of State, as applicable, Dealer shall not knowingly export, re-export, or release, directly or indirectly, any equipment, technology, software, or software source code received from ICOM or export, directly or indirectly, any direct product of such equipment, technology, software, or software source code, to any destination or country to which the export, re-export, or release of the equipment, technology, software, software source code, or direct product is limited by applicable law or regulation.
4. Dealer shall not sell, export, or re-export, transfer, divert, or otherwise dispose of any such product, technical data, software, or software source code directly or indirectly to any person, firm, entity, country, or countries prohibited by U.S. or applicable non-U.S. laws. Further, Dealer shall give notice of the need to comply with such laws and regulations to any person, firm, or entity which it has reason to believe is obtaining any such product, technical data, software, or software source code from Dealer with the intention of exportation.
5. Either ICOM or Dealer may terminate this addendum without cause upon 30 days written notice to the other party. Notwithstanding termination as a Digital Dealer, all rights and obligations of ICOM and Dealer under the commercial equipment agreement shall survive and remain in force in the event this Addendum is terminated. Any termination rights under the commercial equipment agreement are subject to the terms and conditions stated therein and are independent of termination rights under this addendum. In the event dealer 1) submitted a pending digital products bid at the time of termination which is subsequently awarded to dealer or 2) a written contractual obligation exists to sell ICOM digital products to a customer for a certain period of time; then ICOM will accept order(s) from Dealer in support thereof subject to credit and conditions of sale not inconsistent with terms set forth in the commercial equipment agreement and upon submittal to ICOM of copies of the applicable bid or contract that predate the termination date. All obligations of dealer, if any, to service and support a customer after termination shall be solely the responsibility of Dealer. Dealer has read all preceding 14 paragraphs herein and understands all of the terms and obligations contained herein. If this agreement is signed by a representative, the undersigned warrants that the signing of this agreement is authorized and within the scope of the undersigned's authority to execute this agreement for and on behalf of the principal.

DATED THIS _____ day of _____, 20__

ICOM America, Inc. DEALER

Hiro Nakaoka Signature

President Printed Name



Icom America Inc.

12421 Willows Rd NE Kirkland WA 98034 U.S.A.

Phone : +1 425 454 8155 Fax : +1 425 454 1509

URL : <http://www.icomamerica.com>

AGREEMENT AND CERTIFICATION

This Agreement and Certification (the "Agreement") is entered into on October 20, 2017 by and between «DEALER» #«ACCT» (the "Client") and Icom America, Inc. ("Icom") so that Client may acquire from Icom certain uncertified versions of radios as defined below. The resale of the Radios is strictly regulated by federal law and the parties have entered into this Agreement to ensure compliance with law and as more particularly described below.

Icom radios that are identified as uncertified and/or non-FCC compliant on any purchase order rendered by a Client or invoice rendered by Icom may only be sold to: (i) agencies within the U.S. federal government; and (ii) customers outside of the United States (i.e. sales for export) (the "Radios").

Icom Land Mobile radios with 25 kHz capability enabled may only be sold to customers licensed to operate under FCC Rule Part 22, or licensed to operate under FCC Rule Part 74, or license to operate under FCC Rule Parts 97, or licensed to operate under FCC Rule Part 90 with an FCC waiver, or licensed to operate under FCC Rule Part 90 on T-Band frequencies (470-512 MHz), or customers outside of the United States (i.e. sales for export) (the "Radios").

In consideration of Icom's agreement to convey the Radios to Client, Client agrees to and certifies to Icom, to Icom's parent and any of its affiliated entities, the following:

1. Client shall not sell the Radios except in accordance with federal law.
2. Upon receipt from Icom, Client shall immediately affix a label to the product box containing Radios that states, "For sale ONLY to the U.S. Government, or for Export Sales outside the United States" or "For sale ONLY to customers licensed under FCC Rules Part 22, Part 74, or Part 90 with waiver."
3. Each of Client's purchase orders issued to Icom for the Radios will contain an additional certification as follows: "These Radios will be sold in the U.S. only to the U.S. Government or for Export Sales outside the United States" or "For sale ONLY to customers licensed under FCC Rules Part 22, Part 74, or Part 90 with waiver."
4. Client shall implement all necessary internal procedures and undertake all diligence to ensure that the Radios are sold only to permitted customers.
5. Client acknowledges Icom shall assume no liability whatsoever for sales of the Radios made by Client.
6. Client agrees that Icom may, at any time, audit any and all of Client's records of sales made by Client of the Radios and Client will provide any and all documents necessary for Icom to conduct its audit and should such audit disclose any improper sales, Icom reserves the right to terminate Client's privilege to sell the Radios.
7. Client agrees that in the event any audit of its records discloses improper sales or Icom discovers such sales occurred by some other source, Client agrees to facilitate and allow any compliance-related remedial steps that may be required as a result of such improper sales, and to fully cooperate with any inquiry from any applicable governmental authority regarding the sale of the Radios.
8. Client agrees to the fullest extent permitted under any law that it will indemnify, defend and hold Icom harmless for any noncompliance or breach of this Agreement and any and all liabilities arising as a result of its sales of the Radios. This indemnity shall include any and all attorney's fees and costs incurred by Icom whatsoever and in whatever forum, including any regulatory forum. Client further agrees that

notwithstanding, but as part of the foregoing indemnity, Icom shall not be in any way limited in its retention of legal counsel and Icom shall control and direct any litigation or regulatory proceeding that Icom is a party. This indemnity shall survive any applicable statute of limitations forever.

9. Client agrees that nothing in this Agreement shall be interpreted as obligating Icom to sell the Radios to Client and that Icom may discontinue or cancel any purchase order of the Radios if in Icom's sole discretion, Icom believes the resale of the Radios will not be in accordance with applicable law or this Agreement.

10. This Agreement may be signed in counterparts and the parties deem that pdf or facsimile signatures hereto are enforceable.

11. If any provision of this Agreement is or becomes unenforceable or void, then such provision, to the extent only that it is in violation of law, unenforceable or void, will be deemed modified to the extent necessary so that it is no longer in violation of law, unenforceable or void, and such provision will be enforced to the fullest extent permitted by law. If such modification is not possible, such provision, to the extent that it is in violation of law, unenforceable or void, will be deemed severable from the remaining provisions of this Agreement, which remaining provisions will remain binding.

12. This Agreement will be governed by the laws of the State of Washington (without regard to its choice-of-law provisions). The state and federal courts located in Seattle, Washington shall have exclusive jurisdiction of any lawsuit arising from or relating to this Certification. The prevailing party in any such lawsuit will be entitled to an award of attorneys' fees and reasonable litigation costs.

ICOM AMERICA, INC.



Gloria Rasmussen
Controller

CLIENT

«DEALER»

Signature

Print Name:

ATEX PRODUCT SALES AGREEMENT

This Agreement, made and entered into on the 05 day of April 2016, by and between Icom America, Inc. a Washington corporation having its principal place of business at 12421 Willows Road NE, Kirkland, WA 98034 (hereinafter called "Icom"), and Sample Company, having its principal place of business at 1234 West Main Ave, Ste 100, Anytown, AZ 81111 (hereinafter called "Reseller");

WITNESSETH:

Whereas, Icom or its affiliates are engaged in the business of designing and manufacturing two-way radio equipment and systems including Intrinsically Safe (as defined in the ATEX Directive EN13980 (2002), or any amendment and/or future revision of such directive; the "Directive") radio equipment conforming to the Directive (undefined capital letters used herein shall have the meaning ascribed to such term in the Directive); and,

Whereas, Reseller is engaged in the business of promoting, selling and servicing Icom two-way radio equipment and systems, and;

Whereas, Reseller wishes to promote, sell and where possible service those certain Icom radios as listed on the attached Exhibit A (the "Icom ATEX Compliant Radios").

Now, therefore, in consideration of the mutual covenants and undertakings contained herein, the parties hereto hereby agree as follows:

Article 1. PURPOSE OF THIS AGREEMENT

The purpose of this Agreement is;

- A. To make and maintain a sufficient system of traceability for Icom ATEX Compliant Radios sold by Icom to Reseller, Reseller to any third party, including other dealers and end users.
- B. Use the traceability system as a means to inform users regarding any products judged by Icom for any reason to be unsafe and/or non-conforming products as required in the Directive.

Article 2. PRODUCT TO BE COVERED UNDER THIS AGREEMENT

This Agreement and its terms and conditions, shall apply only to the promotion, sale and servicing of Icom ATEX Compliant Radios. This Agreement does not apply to any other Icom radio equipment and/or systems that Reseller handles

Article 3. ATEX COMPLIANT RADIOS

An Icom ATEX Compliant Radio is an Icom radio that conforms to the following criteria;

A. Icom radios that by design and function, conform to and satisfy the requirements of the Directive.

B. The Icom ATEX Compliant Radios have been certified as ATEX compliant by an independent Notified Body.

C. All Icom ATEX Compliant Radios show the appropriate ATEX serial seal and Intrinsically Safe markings.

Article 4. CONDITIONS OF SALE

Reseller agrees to the following terms and conditions:

A. Reseller must agree to all terms and conditions of this Agreement.

B. Reseller represents and warrants that Reseller understands the ATEX markings on the Icom ATEX Compliant Radio, and understands what environments Icom ATEX Compliant Radios can and must be used in.

C. Reseller represents and warrants that it will cause Reseller's buyers to understand the requirements of the Icom ATEX Compliant Radio to avoid the possibility of an accident due to mistaken use of the Icom ATEX Complaint Radio in a dangerous atmosphere or environment.

D. Reseller shall keep an accurate sales record of all Icom ATEX Compliant Radios sold by Reseller.

E. Reseller shall keep an accurate and updated sales record of all Icom ATEX Compliant Radios sold to end-users.

F. Reseller shall inform Icom of the details concerning the information above and any additional information requested by Icom, including, but not limited to, the number of Icom ATEX Compliant Radios in Reseller's inventory and any inventory of Reseller's dealers. Reseller shall deliver the information set forth herein on the form (as updated from time-to-time) on Exhibit A at the end of each calendar quarter.

G. Reseller shall relay any and all information supplied by Icom regarding Icom ATEX Compliant Radios to Reseller's dealers, and shall also ensure such information is relayed to all subsequent end-users. In addition, Reseller will make available information to the public via the appropriate medium when instructed to do so by Icom.

H. Reseller will immediately inform Icom of any information it receives about Icom ATEX Compliant Radios immediately upon receiving such information.

I. Reseller agrees to co-operate fully with any and all requests from Icom regarding Icom ATEX Compliant Radios. This includes any urgent requests if the recall of dangerous and/or non-compliant products is deemed necessary by Icom.

Article 5. TERM OF AGREEMENT

This Agreement shall remain in force and effect so long as Reseller sells and Icom services or warrants Icom ATEX Compliant Radios sold by Reseller.

Article 6. CONFIDENTIALITY

A. Reseller shall treat as secret and confidential any information specified as confidential by Icom under this Agreement, and shall not disclose any such information to any other persons, company, firm, or entity or use any such information except as expressly permitted by Icom. Icom will also treat any and all information received from Reseller, including any user information provided in Exhibit A as confidential.

B. Reseller shall not be obliged to observe the duty of confidentiality referred to herein when the information is requested by any applicable governmental authority.

Article 7. TERMINATION

Icom shall have the sole right to immediately terminate this Agreement and terminate the supply of Icom ATEX Compliant Radios to Reseller if Reseller fails to comply with any provision of this Agreement.

Article 8. GOVERNING LAW

Any disputes, controversies or differences which may arise between the parties out of, in relation to or in connection with this Agreement, or for the breach thereof shall be finally settled by a court of law in King County, Washington. This Agreement shall be construed in accordance with the laws of the State of Washington.

Article 9. OTHER MATTERS

A. Neither party may assign, transfer or sell its rights under this Agreement (or delegate its obligations hereunder), in whole or in part, without the prior written consent of the other party.

B. The failure of either party to enforce at any time or for any period of time any of the provisions of this Agreement shall not be construed as a waiver of such provisions or the right of the party thereafter to enforce each and every such provision.

C. In the event that any of the provisions of this Agreement or the application of any such provisions hereunder shall be held by a court or other tribunal of competent jurisdiction to be unlawful or unenforceable, the remaining provisions of this Agreement shall remain in full force and effect.

D. All notices and demands of any kind which either party may be required or desire to serve upon the other under the terms of this Agreement shall be in writing, and shall be served by e-mail, mail or by fax, at the addresses hereinabove set forth.

E. This Agreement represents the entire agreement between the parties hereto with respect to the subject matter hereof and supersedes any other Agreement or understanding, written or oral, that the parties heretofore may have had. No notifications, revisions, changes, or waivers of any provision, covenant, promise, or agreement contained herein shall have any force or effect, unless made in writing and signed by the proper officers of both parties.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed in duplicate originals by their duly authorized representatives as of the day and year first written above.

ICOM AMERICA, INC.

By: _____

Name:

Its: _____

Title:

Exhibit A: Traceability Sheet: Distributor/Dealer/End-User

For period: xx/xx/2005 to xx/xx2005

Model	Serial No.	Distributor Name	Dealer Name/Contact	End-User Name/Contact	End-User Address/Inventory Status	End-User Tel. No/E-mail	Purchase Date
IC-F51 #xx	1234567	Icom UK	Radio Inc/Mr. X	Shell Oil UK	123 Atex St. London UK	012-34-6789/so@com	2005/xx/xx
IC-F51 #xx	1234568	Icom UK	Radio Inc/Mr. X	Shell Oil UK	123 Atex St. London UK	012-34-6789/so@com	2005/xx/xx
IC-F61 #xx	1234569	Icom UK	AMG/Mr. Y	BP Gas	547 Black Rd. Kent UK	011-4558-554/amg@org	2005/xx/xx
IC-F61 #xx	1234570	Icom UK	AMG/Mr. Y	N/A In	Inventory of Dealer	N/A N/A	

Total Number of units Sold During Period : _____/pcs

Total Number of Units in Distributor's Inventory : _____/pcs

Total Number of units in Dealer's Inventory : _____/pcs



Icom America Inc.

12421 Willows Rd NE, Redmond, WA 98034 U.S.A.
Phone : +1 425 454 8155 Fax : +1 425 454 1509
URL : <http://www.icomamerica.com>

AGREEMENT AND CERTIFICATION

This Agreement and Certification (the "Agreement") is entered into on January 8, 2018, by and between «DEALER» #«ACCT» (the "Client") and Icom America, Inc. ("Icom") so that Client may acquire from Icom certain unblocked versions of receivers as defined below. The resale of the Receivers is strictly regulated by federal law and the parties have entered into this Agreement to ensure compliance with law and as more particularly described below.

A. Icom's IC-R9500, IC-R2500, and IC-PCR2500 unblocked FCC certified receivers may only be sold to: (i) U.S. federal government agencies; (ii) state and local government agencies (iii) cellular communications carriers; (iv) export customers that do not sell any merchandise into the United States; and (v) persons or commercial entities that are under a specific contract with a federal government agency or cellular carrier, but only upon the specific written certification by such agency or carrier that the unblocked product is required in connection with such contract (the "FCC Approved Unblocked Receivers").

B. Icom's IC-R6, IC-RX7, IC-R8500, PCR/R2500, PCR/R1500, IC-R9500, IC-R20 unblocked receivers may only be sold to: (i) agencies within the U.S. federal government; and (ii) customers outside of the United States (i.e. sales for export) (the "Unblocked Receivers").

C. The Unblocked Receivers and FCC Approved Unblocked Receivers are also collectively defined in this Agreement as Receivers.

In consideration of Icom's agreement to convey the Receivers to Client, Client agrees to and certifies to Icom, Icom's parent and any of its affiliated entities, the following:

1. Client shall not sell the Receivers except in accordance with federal law. The parties agree to update this Agreement in the event new or additional receivers need to be added to the Receivers listed in Recitals A or B in order to accurately identify the Receivers that Client is offering and that are subject to this Agreement.

2. Upon receipt from Icom, Client shall immediately affix a label to the product box containing Unblocked Receivers that states, "For sale ONLY to the U.S. Government, or for Export Sales outside the United States".

3. Each of Client's purchase orders issued to Icom for the Receivers will contain an additional certification as follows: "These Receivers will be sold in the U.S. only to end-users exempt under U.S. federal law."

4. Client shall implement all necessary internal procedures and undertake all diligence to ensure that the Receivers are sold only to permitted customers.

5. Client acknowledges Icom shall assume no liability whatsoever for sales of the Receivers made by Client.

6. Client agrees that Icom may, at any time, audit any and all of Client's records of sales made by Client of the Receivers and Client will provide any and all documents necessary for Icom to conduct its audit and should such audit disclose any improper sales, Icom reserves the right to terminate Client's privilege to sell the Receivers.

7. Client agrees that in the event any audit of its records discloses improper sales or Icom discovers such sales occurred by some other source, Client agrees to facilitate and allow any compliance-related remedial steps that may be required as a result of such improper sales, and to fully cooperate with any inquiry from any applicable governmental authority regarding the sale of the Receivers.

8. Client agrees to the fullest extent permitted under any law that it will indemnify, defend and hold Icom harmless for any noncompliance or breach of this Agreement and any and all liabilities arising as a result of its sales of the Receivers. This indemnity shall include any and all attorneys fees and costs incurred by Icom whatsoever and in whatever forum, including any regulatory forum. Client further agrees that notwithstanding, but as part of the foregoing indemnity, Icom shall not be in any way limited in its retention of legal counsel and Icom shall control and direct any litigation or regulatory proceeding that Icom is a party. This indemnity shall survive any applicable statute of limitations forever.

9. Client agrees that nothing in this Agreement shall be interpreted as obligating Icom to sell the Receivers to Client and that Icom may discontinue or cancel any purchase order of the Receivers if in Icom's sole discretion, Icom believes the resale of the Receivers will not be in accordance with applicable law or this Agreement.

10. This Agreement may be signed in counterparts and the parties deem that pdf or facsimile signatures hereto are enforceable.

11. If any provision of this Agreement is or becomes unenforceable or void, then such provision, to the extent only that it is in violation of law, unenforceable or void, will be deemed modified to the extent necessary so that it is no longer in violation of law, unenforceable or void, and such provision will be enforced to the fullest extent permitted by law. If such modification is not possible, such provision, to the extent that it is in violation of law, unenforceable or void, will be deemed severable from the remaining provisions of this Agreement, which remaining provisions will remain binding.

12. This Agreement will be governed by the laws of the State of Washington (without regard to its choice-of-law provisions). The state and federal courts located in Seattle, Washington shall have exclusive jurisdiction of any lawsuit arising from or relating to this Certification. The prevailing party in any such lawsuit will be entitled to an award of attorneys' fees and reasonable litigation costs.

ICOM AMERICA, INC.



Gloria Rasmussen
Controller

CLIENT

«DEALER»

Signature

Print Name:



ICOM®



AIR. LAND. SEA.



First responders, law enforcement and EmComm units choose Icom for avionic, marine, amateur, and land mobile two-way radio solutions. Icom radios provide advanced emergency functionality, rugged MIL-STD construction and the necessary radio system features to manage mission critical situations. For customizable systems, Icom America Systems designs, builds and implements communications solutions of all sizes and capacities.

Avionics



Panel mount radios help coordinate pilot and ground crew communications. Handheld radios are essential in any flight bag or vehicle. Icom's VHF air band transceivers are easy to use and military-tough.

A6 Ground Crew

- Flip FloP PLUS channel recall
- Dedicated 121.5MHz emergency key



A14 Comm

- 2000 mAh Li-Ion battery
- V Speed audio
- Speaker-mic compatible



A220 SERIES

Aircraft Panel Mount / Ground Crew / Base Station

- Panel mount for rescue vehicle, aircraft, or base station
- Dual monitoring w/built-in intercom
- Industry standard slide tray installation
- TSO approved version available



A24

Ground Crew / Aircraft Nav

- Flip FloP PLUS channel recall
- VOR navigation
- Dedicated 121.5MHz emergency key



Marine



M93D

Rescue Personnel

- 5W output power
- Built in GPS
- Built-in Class D DSC
- IPX7 waterproof rating
- Integrated GNSS
- AquaQuake™ draining



M88

Rescue Personnel

- 5/3/1 Watts of selectable power
- Programmable call channel
- FCC approved for marine and land mobile use



A VHF marine radio is a critical component of any water-deployed 1st responder. Access emergency features and DSC at the helm or in the palm of your hand. Intuitive operation and IPX7 (or greater) waterproof construction are standard with every Icom AIS and marine transceiver.



M506 w/optional Command Mic IV

- Channel 9/16 + 1 monitoring
- Remote operation capable (2 locations)
- Integrated AIS receiver
- Built-in Class D DSC
- Optional HM-195-B



M605

- Bright Color screen
- Built-in GPS
- IPX8 Waterproofing
- NMEA 2000™ and NMEA 0183 connectivity
- Remote head options available



M424G

- NMEA 0183 connectivity
- Built-in GPS
- AquaQuake™ draining
- Class D DSC
- Optional HM-195G



MA-500TR AIS

- Large full dot-matrix display
- Interfaces with radios for DSC calls
- Shows real-time vessel information
- Integrated AIS receiver

Amateur

When natural and man-made catastrophes disable power grids and cell towers, amateur radio delivers crucial emergency communications and system redundancy. Handheld transceivers and mobile radios offer reliable operation for field units on the go. HF rigs offer wide range communication from a centralized location. EmComm units rely on Icom for D-STAR digital, HF and analog radios to coordinate disaster relief and public safety efforts. All Icom radios are factory certified, Mil-Spec and feature loud audio, flexible installation and easy operation.



ID-51A PLUS2 Rescue Personnel

- 5W, 2m/70cm Portable
- High capacity Li-Ion battery
- Water resistant
- Terminal mode
- Access Point mode

D-STAR ready



ID-4100A* Compact Rescue Vehicle

- 50W, 2m/70cm mobile
- Remote head

D-STAR ready



IC-5100A Ultimate Comms Van

- 50W, 2m/70cm
- Integrated GPS
- Touch screen remote head

D-STAR ready



IC-7100 Comms Van

- HF/6m/2m/70cm
- 100W/100W/50W/35W
- Mobile or base station

D-STAR ready



*IC-4100 Pending FCC Approval



IC-9100

Emergency Operations Center

- HF/6m/2m/70cm
- 100W/50W/35W
- Base station

D-STAR optional



IC-7300

Emergency Operations Center

- HF/6m All-mode transceiver
- IP+ improved signaling
- RF direct sampling
- Base station

D-STAR optional



IC-T70A HD

Rescue Personnel

- 5W, 2m/70cm portable
- Hi capacity Li-ION battery
- Loud audio



IC-V80 HD/SPORT

Rescue Personnel

- 5W, 2m/VHF portable
- Loud audio
- Hi capacity Li-Ion battery (HD version)
- AA alkaline package (Sport version)



ANALOG



IC-2730A

Ultimate Comms Van

- 50W, 2m/70cm mobile
- Remote head or base station
- Loud audio



Land Mobile

For emergencies and routine operations, Icom two-way radio systems provide imperative communications between law enforcement, hospitals and local/state/federal public safety agencies.



F3400D SERIES

Rescue Personnel

- 5W NXDN digital / analog
- Single-site / multi-site conventional / trunking capable
- IP68 protection
- Built-in Bluetooth®
- Active Noise Cancelling
- Audio equalization



VE-PG3

RoIP Gateway

- Interconnect between IP phone, analog phone and radio networks
- Cross band, cross category connection



F1000 SERIES

Rescue Personnel

- 5W analog portable
- Basic, simple display or keypad versions
- IP67 waterproof
- 2-tone, 5-tone, CTCSS and DTCS signaling



FR5000/6000

- IDAS™ Multi-site conventional
- 50W at 50% duty cycle / 25W at 100% duty cycle



F8101

ALE

- HF operation
- Automatic Link Establishment (ALE)
- Antenna packages available (AH-740 shown)



F5400D SERIES

Rescue Center Personnel

- 50W / 40W NXDN digital / analog
- Single-site / multi-site conventional / trunking capable
- Dual-head compatibility
- Audio equalization



Icom America is a top tier provider for major freight and transit railroads throughout the Western Hemisphere. Class One railroads rely on Icom to provide robust radios and systems to satisfy client needs to operate nationwide.

Some of the largest transit railroads in the United States use our advanced IDAS technology to offer reliable wide-area coverage to maintain critical communications that make sure trains run safely and on time.

Icom technology meets the challenge of operating in all forms of rail operation and this same spirit carries over to our entire product line.



F9011

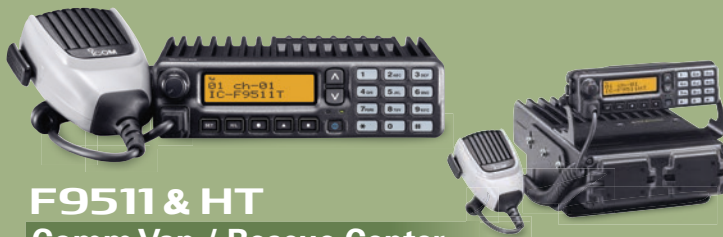
w/optional Redhawk Mic

Rescue Center Personnel

- 6W P25 / analog
- P25 trunking / conventional
- Encryption button & 3-position zone select switch
- AES / DES encryption with OTAR

REDHAWK MIC

- GPS field asset location
- Store, send, and GoTo waypoints & users



F9511 & HT

Comm Van / Rescue Center Personnel

- 50W P25 / analog mobile
- P25 trunking and conventional
- AES / DES encryption with OTAR
- Conventional with trunking option

HT VERSION

- 110W Mobile
- Dual head option at 50W
- 22W amp for PA and RX speaker function



F7010*

Rescue Center Personnel

- 5W / 2W / 1W P25 / digital
- Over-The-Air programmable
- Sharp color LCD screen
- FIPS Level 1 encryption
- IP68 waterproof
- P25 Phase 2 trunking capable



F7510*

Rescue Center Personnel

- 45W / 25W / 5W P25 / digital
- Active noise cancelling
- USB connection to PC
- Military rugged spec
- P25 Phase 2 trunking capable

P25 REPEATERS



FR9110*

- Excellent basic level autosensing P25 conventional / analog
- Shown with FC9100 Repeater Controller



ECLIPSE2

- Autosensing P25 conventional / analog
- 2W-150W (VHF) 2-120W (UHF) at 100% duty cycle
- Modular hot swappable design
- IP firmware and software updating capability
- Remote diagnostics over ethernet



*Pending FCC Approval

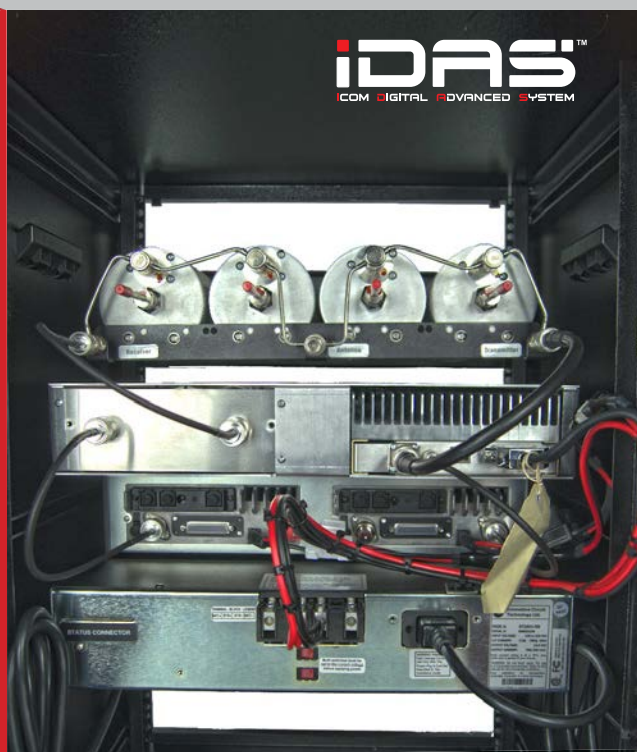
Systems

Whether your public safety needs are avionics, amateur, marine, or land mobile, Icom America Systems (IAS) can provide custom builds and solutions for your radio infrastructure. IAS designs, assembles and installs trunked or conventional packages that can cover a wide range of applications and areas. Customer-owned systems offer fixed costs, greater privacy, and optional independence from the public power grid.

The IAS 150DV/120DU digital and analog IDAS™ repeaters operate 150W (VHF) or 120W (UHF) at 100% duty cycle. It's a foundation for a custom build Icom can personalize for your needs.

"Police, fire, and emergency service agencies depend on radio interoperability which is essential for urgent and immediate communication between departments."

-Nick Pennance, VP Icom America



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AIR. LAND. SEA.



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