

H-GAC

Houston-Galveston Area Council
P.O. Box 22777 · 3555 Timmons · Houston, Texas 77227-2777

Cooperative Agreement - Contract - SIAE Microelettronica Inc - Public Services - ID: 7318

MASTER GENERAL PROVISIONS

This Master Agreement is made and entered into, by and between the Houston-Galveston Area Council hereinafter referred to as H-GAC having its principal place of business at 3555 Timmons Lane, Suite 120, Houston, Texas 77027 and SIAE Microelettronica Inc, hereinafter referred to as the Contractor, having its principal place of business at 100 S. Clinto Avenue, Suite 1500, Rochester, NY 14604-1801.

WITNESSETH:

WHEREAS, H-GAC hereby engages the Contractor to perform certain services in accordance with the specifications of the Master Agreement; and

WHEREAS, the Contractor has agreed to perform such services in accordance with the specifications of the Master Agreement;

NOW, THEREFORE, H-GAC and the Contractor do hereby agree as follows:

ARTICLE 1: LEGAL AUTHORITY

The Contractor warrants and assures H-GAC that it possesses adequate legal authority to enter into this Master Agreement. The Contractor's governing body, where applicable, has authorized the signatory official(s) to enter into this Master Agreement and bind the Contractor to the terms of this Master Agreement and any subsequent amendments hereto.

ARTICLE 2: APPLICABLE LAWS

The Contractor agrees to conduct all activities under this Master Agreement in accordance with all federal laws, executive orders, policies, procedures, applicable rules, regulations, directives, standards, ordinances, and laws, in effect or promulgated during the term of this Master Agreement, including without limitation, workers' compensation laws, minimum and maximum salary and wage statutes and regulations, and licensing laws and regulations. When required, the Contractor shall furnish H-GAC with satisfactory proof of its compliance therewith.

ARTICLE 3: PUBLIC INFORMATION

Except as stated below, all materials submitted to H-GAC, including any attachments, appendices, or other information submitted as a part of a submission or Master Agreement, are considered public information, and become the property of H-GAC upon submission and may be reprinted, published, or distributed in any manner by H-GAC according to open records laws, requirements of the US Department of Labor and the State of Texas, and H-GAC policies and procedures. In the event the Contractor wishes to claim portions of the response are not subject to the Texas Public Information Act, it shall so; however, the determination of the Texas Attorney General as to whether such information must be disclosed upon a public request shall be binding on the Contractor. H-GAC will request such a determination only if Contractor bears all costs for preparation of the submission. H-GAC is not responsible for the return of creative examples of work submitted. H-GAC will not be held accountable if material from submissions is obtained without the written consent of the contractor by parties other than H-GAC, at any time during the evaluation process.

ARTICLE 4: INDEPENDENT CONTRACTOR

The execution of this Master Agreement and the rendering of services prescribed by this Master Agreement do not change the independent status of H-GAC or the Contractor. No provision of this Master Agreement or act of H-GAC in performance of the Master Agreement shall be construed as making the Contractor the agent, servant, or employee of H-GAC, the State of Texas, or the United States Government. Employees of the Contractor are subject to the exclusive control and supervision of the Contractor. The Contractor is solely responsible for employee related disputes and discrepancies, including employee payrolls and any claims arising therefrom.

ARTICLE 5: ANTI-COMPETITIVE BEHAVIOR

Contractor will not collude, in any manner, or engage in any practice which may restrict or eliminate competition or otherwise restrain trade.

ARTICLE 6: SUSPENSION AND DEBARMENT

Debarment and Suspension (Executive Orders 12549 and 12689) – A contract award (2 CFR 180.220) must not be made to parties listed on the government-wide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR Part 1966 Comp. p. 189) and 12689 (3 CFR Part 1989 Comp. p. 235), “Debarment and Suspension.” SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

Pursuant to the Federal Rule above, Respondent certifies that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation by any federal department or agency or by the State of Texas and at all times during the term of the Contract neither it nor its principals will be debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation by any federal department or agency or by the State of Texas Respondent shall immediately provide the written notice to H-GAC if at any time the Respondent learns that this certification was erroneous when submitted or has become erroneous by reason of changed circumstances. H-GAC may rely upon a certification of the Respondent that the Respondent is not debarred, suspended, ineligible, or voluntarily excluded from the covered contract, unless the H-GAC knows the certification is erroneous.

ARTICLE 7: GOAL FOR CONTRACTING WITH SMALL AND MINORITY BUSINESSES, WOMEN’S BUSINESS ENTERPRISES, AND LABOR SURPLUS AREA FIRMS (if subcontracts are to be let)

H-GAC’s goal is to assure that small and minority businesses, women's business enterprises, and labor surplus area firms are used when possible in providing services under a contract. In accordance with federal procurements requirements of 2 CFR §200.321, if subcontracts are to be let, the prime contractor must take the affirmative steps listed below:

1. Placing qualified small and minority businesses and women’s business enterprises on solicitation lists;
2. Assuring that small and minority businesses and women’s business enterprises are solicited whenever they are potential sources;
3. Dividing total requirements, when economically feasible, into smaller task or quantities to permit maximum participation by small and minority businesses, and women’s business enterprises;
4. Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women’s business enterprises;
5. Using the services and assistance as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce.
- 6.

Nothing in this provision will be construed to require the utilization of any firm that is either unqualified or unavailable. The Small Business Administration (SBA) is the primary reference and database for information on requirements related to Federal Subcontracting <https://www.sba.gov/federal-contracting/contracting-guide/prime-subcontracting>

NOTE: The term DBE as used in this solicitation is understood to encompass all programs/business enterprises

such as: Small Disadvantaged Business (SDB), Historically Underutilized Business (HUB), Minority Owned Business Enterprise (MBE), Women Owned Business Enterprise (WBE) and Disabled Veteran Business Enterprise (DVBE) or other designation as issued by a certifying agency.

Contractor agrees to work with and assist HGACBuy customer in meeting any DBE targets and goals, as may be required by any rules, processes, or programs they might have in place. Assistance may include compliance with reporting requirements, provision of documentation, consideration of Certified/Listed subcontractors, provision of documented evidence that an active participatory role for a DBE entity was considered in a procurement transaction, etc.

ARTICLE 8: SCOPE OF SERVICES

The services to be performed by the Contractor are outlined in an Attachment to this Master Agreement.

ARTICLE 9: PERFORMANCE PERIOD

This Master Agreement shall be performed during the period which begins Aug 01 2021 and ends Jul 31 2023. All services under this Master Agreement must be rendered within this performance period, unless directly specified under a written change or extension provisioned under Article 21, which shall be fully executed by both parties to this Master Agreement.

ARTICLE 10: PAYMENT OR FUNDING

Payment provisions under this Master Agreement are outlined in the Special Provisions. H-GAC will not pay for any expenses incurred prior to the execution date of a contract, or any expenses incurred after the termination date of the contract.

ARTICLE 11: PAYMENT FOR WORK

The H-GAC Customer is responsible for making payment to the Contractor upon delivery and acceptance of the goods or completion of the services and submission of the subsequent invoice.

ARTICLE 12: PAYMENT TERMS/PRE-PAYMENT/QUANTITY DISCOUNTS

If discounts for accelerated payment, pre-payment, progress payment, or quantity discounts are offered, they must be clearly indicated in the Contractor's submission prior to contract award. The applicability or acceptance of these terms is at the discretion of the Customer.

ARTICLE 13: REPORTING REQUIREMENTS

If the Contractor fails to submit to H-GAC in a timely and satisfactory manner any report required by this Master Agreement, or otherwise fails to satisfactorily render performances hereunder, H-GAC may terminate this Master Agreement with notice as identified in Article 29 of these General Provisions. H-GAC has final determination of the adequacy of performance and reporting by Contractor. Termination of this Master Agreement for failure to perform may affect Contractor's ability to participate in future opportunities with H-GAC. The Contractor's failure to timely submit any report may also be considered cause for termination of this Master Agreement. Any additional reporting requirements shall be set forth in the Special Provisions of this Master Agreement.

ARTICLE 14: INSURANCE

Contractor shall maintain insurance coverage for work performed or services rendered under this Master Agreement as outlined and defined in the attached Special Provisions.

ARTICLE 15: SUBCONTRACTS AND ASSIGNMENTS

Except as may be set forth in the Special Provisions, the Contractor agrees not to assign, transfer, convey, sublet, or otherwise dispose of this Master Agreement or any right, title, obligation, or interest it may have therein to any third party without prior written approval of H-GAC. The Contractor acknowledges that H-GAC is not liable to any subcontractor or assignee of the Contractor. The Contractor shall ensure that the performance rendered under

all subcontracts shall result in compliance with all the terms and provisions of this Master Agreement as if the performance rendered was rendered by the Contractor. Contractor shall give all required notices, and comply with all laws and regulations applicable to furnishing and performance of the work. Except where otherwise expressly required by applicable law or regulation, H-GAC shall not be responsible for monitoring Contractor's compliance, or that of Contractor's subcontractors, with any laws or regulations.

ARTICLE 16: AUDIT

Notwithstanding any other audit requirement, H-GAC reserves the right to conduct or cause to be conducted an independent audit of any transaction under this Master Agreement, such audit may be performed by the H-GAC local government audit staff, a certified public accountant firm, or other auditors designated by H-GAC and will be conducted in accordance with applicable professional standards and practices. The Contractor understands and agrees that the Contractor shall be liable to the H-GAC for any findings that result in monetary obligations to H-GAC.

ARTICLE 17: TAX EXEMPT STATUS

H-GAC and Customer members are either units of government or qualified non-profit agencies, and are generally exempt from Federal and State sales, excise or use taxes. Respondent must not include taxes in its Response. It is the responsibility of Contractor to determine the applicability of any taxes to an order and act accordingly. Exemption certificates will be provided upon request.

ARTICLE 18: EXAMINATION OF RECORDS

The Contractor shall maintain during the course of the work complete and accurate records of all of the Contractor's costs and documentation of items which are chargeable to H-GAC under this Master Agreement. H-GAC, through its staff or designated public accounting firm, the State of Texas, and United States Government, shall have the right at any reasonable time to inspect, copy and audit those records on or off the premises by authorized representatives of its own or any public accounting firm selected by H-GAC. The right of access to records is not limited to the required retention period, but shall last as long as the records are retained. Failure to provide access to records may be cause for termination of the Master Agreement. The records to be thus maintained and retained by the Contractor shall include (without limitation): (1) personnel and payroll records, including social security numbers and labor classifications, accounting for total time distribution of the Contractor's employees working full or part time on the work, as well as cancelled payroll checks, signed receipts for payroll payments in cash, or other evidence of disbursement of payroll payments; (2) invoices for purchases, receiving and issuing documents, and all other unit inventory records for the Contractor's stocks or capital items; and (3) paid invoices and cancelled checks for materials purchased and for subcontractors' and any other third parties' charges.

Contractor agrees that H-GAC will have the right, with reasonable notice, to inspect its records pertaining to purchase orders processed and the accuracy of the fees payable to H-GAC. The Contractor further agrees that the examination of records outlined in this article shall be included in all subcontractor or third-party Master Agreements.

ARTICLE 19: RETENTION OF RECORDS

The Contractor and its subcontractors shall maintain all records pertinent to this Master Agreement, and all other financial, statistical, property, participant records, and supporting documentation for a period of no less than seven (7) years from the later of the date of acceptance of the final payment or until all audit findings have been resolved. If any litigation, claim, negotiation, audit or other action involving the records has been started before the expiration of the retention period, the records shall be retained until completion of the action and resolution of all issues which arise from it, or until the end of the seven (7) years, whichever is later, and until any outstanding litigation, audit, or claim has been fully resolved.

ARTICLE 20: DISTRIBUTORS, VENDORS, RESELLERS

Contractor agrees and acknowledges that any such designations of distributors, vendors, resellers or the like are for the convenience of the Contractor only and the awarded Contractor will remain responsible and liable for all obligations under the Contract and the performance of any designated distributor, vendor, reseller, etc. Contractor is also responsible for receiving and processing any Customer purchase order in accordance with the Contract and forwarding of the Purchase Order to the designated distributor, vendor, reseller, etc. to complete the sale or service. H-GAC reserves the right to reject any entity acting on the Contractor's behalf or refuse to add entities after a contract is awarded.

ARTICLE 21: CHANGE ORDERS AND AMENDMENTS

- A. Any alterations, additions, or deletions to the terms of this Master Agreement, which are required by changes in federal or state law or by regulations, are automatically incorporated without written amendment hereto, and shall become effective on the date designated by such law or by regulation.
- B. To ensure the legal and effective performance of this Master Agreement, both parties agree that any amendment that affects the performance under this Master Agreement must be mutually agreed upon and that all such amendments must be in writing. After a period of no less than 30 days subsequent to written notice, unless sooner implementation is required by law, such amendments shall have the effect of qualifying the terms of this Master Agreement and shall be binding upon the parties as if written herein.
- C. Customers have the right to issue a change order to any purchase orders issued to the Contractor for the purposes of clarification or inclusion of additional specifications, qualifications, conditions, etc. The change order must be in writing and agreed upon by Contractor and the Customer agency prior to issuance of any Change Order. A copy of the Change Order must be provided by the Contractor to, and acknowledged by, H-GAC.

ARTICLE 22: CONTRACT ITEM CHANGES

- A. If a manufacturer discontinues a contracted item, that item will automatically be considered deleted from the contract with no penalty to Contractor. However, H-GAC may at its sole discretion elect to make a contract award to the next lowest Respondent for the item, or take any other action deemed by H-GAC, at its sole discretion, to be in the best interests of its Customers.
- B. If a manufacturer makes any kind of change in a contracted item which affects the contract price, Contractor must advise H-GAC of the details. H-GAC may allow or reject the change at its sole discretion. If the change is rejected, H-GAC will remove the item from its program and there will be no penalty to Contractor. However, H-GAC may at its sole discretion elect to make a contract award to the next lowest Respondent for the item, or take any other action deemed by H-GAC, at its sole discretion, to be in the best interests of its Customers.
- C. If a manufacturer makes any change in a contracted item which does not affect the contract price, Contractor shall advise H-GAC of the details. If the 'new' item is equal to or better than the originally contracted item, the 'new' item shall be approved as a replacement. If the change is rejected H-GAC will remove the item from its program and there will be no penalty to Contractor. However, H-GAC may at its sole discretion elect to make a contract award to the next lowest Respondent for the item or may take any other action deemed by H-GAC at its sole discretion, to be in the best interests of its Customers.
- D. In the case of specifically identified catalogs or price sheets which have been contracted as base bid items or as published options, routine published changes to products and pricing will be automatically incorporated into the contract. However, Contractor must still provide thirty (30) calendar days written

notice and an explanation of the changes to products and pricing. H-GAC will respond with written approval.

ARTICLE 23: CONTRACT PRICE ADJUSTMENTS

Price Decreases

If Contractor's Direct Cost decreases at any time during the full term of this award, Contractor must immediately pass the decrease on to H-GAC and lower its prices by the amount of the decrease in Direct Cost. (Direct Cost means Contractor's cost from the manufacturer of any item or if Contractor is the manufacturer, the cost of raw materials required to manufacture the item, plus costs of transportation from manufacturer to Contractor and Contractor to H-GAC. Contractor must notify H-GAC of price decreases in the same way as for price increases set out below. The price decrease shall become effective upon H-GAC's receipt of Contractor's notice. If Contractor routinely offers discounted contract pricing, H-GAC may request Contractor accept amended contract pricing equivalent to the routinely discounted pricing

Price Increases

Contractors may request a price increase for items priced as Base Bid items and Published Options after twelve (12) months from the bid opening date of the bid received by H-GAC. The amount of any increase will not exceed actual documented increase in Contractor's Direct Cost and will not exceed 10% of the previous bid price. Considerations on the percentage limit will be given if the price increase is the result of increased tariff charges, or other economic factors.

Price Changes

Any permanent increase or decrease in offered pricing for a base contract item or published option is considered a price change. Temporary increases in pricing by whatever name (e.g. 'surcharge', 'adjustment', 'equalization charge', 'compliance charge', 'recovery charge', etc.), are also considered to be price changes. For published catalogs and price sheets as part of an H-GAC contract, requests to amend the contract to reflect any new published catalog or price sheet must be submitted whenever the manufacturer publishes a new document. The request must include the new catalog or price sheet.

All Products shall, at time of sale, be equipped as required under any then current applicable local, state, and federal government requirements. If, during the course of any contract, changes are made to any government requirements which cause a manufacturer's costs of production to increase, Contractor may increase pricing to the extent of Contractor's actual cost increase. The increase must be substantiated with support documentation acceptable to H-GAC prior to taking effect. Modifications to a Product required to comply with such requirements which become effective after the date of any sale are the responsibility of the Customer.

Requesting Price Increase/Required Documentation

Contractor must submit a written notification at least thirty (30) calendar days prior to the requested effective date of the change, setting the amount of the increase, along with an itemized list of any increased prices, showing the Contractor's current price, revised price, the actual dollar difference and the percentage of the price increase by line item. Price change requests must include H-GAC Forms D Offered Item Pricing and E Options Pricing, or the documentation used to submit pricing in the original Response and be supported with substantive documentation (e.g. manufacturer's price increase notices, copies of invoices from suppliers, etc.) clearly showing that Contractor's actual costs have increased per the applicable line-item bid. The Producer Price Index (PPI) may be used as partial justification, subject to approval by H-GAC, but no price increase based solely on an increase in the PPI will be allowed. This documentation should be submitted in Excel format to facilitate analysis and updating of the website. The letter and documentation must be sent to the Bids and Specifications manager, William Burton, at William.Burton@h-gac.com

Review/Approval of Requests

If H-GAC approves the price increase, Contractor will be notified in writing; no price increase will be effective until Contractor receives this notice. If H-GAC does not approve Contractor's price increase, Contractor may terminate its performance upon sixty (60) days advance written notice to H-GAC, however Contractor must fulfill any outstanding Purchase Orders. Termination of performance is Contractor's only remedy if H-GAC does not approve the price increase. H-GAC reserves the right to accept or reject any price change request.

ARTICLE 24: DELIVERIES AND SHIPPING TERMS

The Contractor agrees to make deliveries only upon receipt of authorized Customer Purchase Order acknowledged by H-GAC. Delivery made without such Purchase Order will be at Contractor's risk and will leave H-GAC the option of canceling any contract awarded to the Contractor. The Contractor must secure and deliver any item within five (5) working days, or as agreed to on any corresponding customer Purchase Order.

Shipping must be Freight On Board Destination to the delivery location designated on the Customer purchase order. The Contractor will retain title and control of all goods until delivery is completed and the Customer has accepted the delivery. All risk of transportation and all related charges are the responsibility of the Contractor. The Customer will notify the Contractor and H-GAC promptly of any damaged goods and will assist the Contractor in arranging for inspection. The Contractor must file all claims for visible or concealed damage. Unless otherwise stated in the Master Agreement, deliveries must consist only of new and unused merchandise.

ARTICLE 25: RESTOCKING (EXCHANGES AND RETURNS)

There will be no restocking charge to the Customer for return or exchange of any item purchased under the terms of any award. If the Customer wishes to return items purchased under an awarded contract, the Contractor agrees to exchange, these items for other items, with no additional charge incurred. Items must be returned to Contractor within thirty (30) days from date of delivery. If there is a difference in price in the items exchanged, the Contractor must notify H-GAC and invoice Customer for increase price or provide the Customer with a credit or refund for any decrease in price per Customer's preference. On items returned, a credit or cash refund will be issued by the Contractor to Customer. This return and exchange option will extend for thirty (30) days following the expiration of the term of the Contract. All items returned by the Customer must be unused and in the same merchantable condition as when received. Items that are special ordered may be returned only upon approval of the Contractor.

ARTICLE 26: MANUALS

Each product delivered under contract to any Customer must be delivered with at least one (1) copy of a safety and operating manual and any other technical or maintenance manual. The cost of the manual(s) must be included in the price for the Product offered.

ARTICLE 27: OUT OF STOCK, PRODUCT RECALLS, AND DISCONTINUED PRODUCTS

H-GAC does NOT purchase the products sold pursuant to a Solicitation or Master Agreement. Contractor is responsible for ensuring that notices and mailings, such as Out of Stock or Discontinued Notices, Safety Alerts, Safety Recall Notices, and customer surveys, are sent directly to the Customer with a copy sent to H-GAC. Customer will have the option of accepting any equivalent product or canceling the item from Customer's Purchase Order. Contractor is not authorized to make substitutions without prior approval.

ARTICLE 28: WARRANTIES, SALES, AND SERVICE

Warranties must be the manufacturer's standard and inclusive of any other warranty requirements stated in the Master Agreement; any warranties offered by a dealer will be in addition to the manufacturer's standard warranty and will not be a substitute for such. Pricing for any product must be inclusive of the standard warranty.

Contractor is responsible for the execution and effectiveness of all product warranty requests and any claims, Contractor agrees to respond directly to correct warranty claims and to ensure reconciliation of warranty claims that have been assigned to a third party.

ARTICLE 29: TERMINATION PROCEDURES

The Contractor acknowledges that this Master Agreement may be terminated for Convenience or Default. H-GAC will not pay for any expenses incurred after the termination date of the contract.

A. *Convenience*

H-GAC may terminate this Master Agreement at any time, in whole or in part, with or without cause, whenever H-GAC determines that for any reason such termination is in the best interest of H-GAC, by providing written notice by certified mail to the Contractor. Upon receipt of notice of termination, all services hereunder of the Contractor and its employees and subcontractors shall cease to the extent specified in the notice of termination.

The Contractor may cancel or terminate this Master Agreement upon submission of thirty (30) days written notice, presented to H-GAC via certified mail. The Contractor may not give notice of cancellation after it has received notice of default from H-GAC.

B. *Default*

H-GAC may, by written notice of default to the Contractor, terminate the whole or any part of the Master Agreement, in any one of the following circumstances:

- (1) If the Contractor fails to perform the services herein specified within the time specified herein or any extension thereof; or
- (2) If the Contractor fails to perform any of the other provisions of this Master Agreement for any reason whatsoever, or so fails to make progress or otherwise violates the Master Agreements that completion of services herein specified within the Master Agreement term is significantly endangered, and in either of these two instances does not cure such failure within a period often (10) days (or such longer period of time as may be authorized by H-GAC in writing) after receiving written notice by certified mail of default from H-GAC.
- (3) In the event of such termination, Contractor will notify H-GAC of any outstanding Purchase Orders and H-GAC will consult with the End User and notify the Contractor to what extent the End User wishes the Contractor to complete the Purchase Order. If Contractor is unable to do so, Contractor may be subject to a claim for damages from H-GAC and/or the End User.

ARTICLE 30: SEVERABILITY

H-GAC and Contractor agree that should any provision of this Master Agreement be determined to be invalid or unenforceable, such determination shall not affect any other term of this Master Agreement, which shall continue in full force and effect.

ARTICLE 31: FORCE MAJEURE

To the extent that either party to this Master Agreement shall be wholly or partially prevented from the performance of any obligation or duty placed on such party by reason of or through strikes, stoppage of labor, riot, fire, flood, acts of war, insurrection, accident, order of any court, act of God, or specific cause reasonably beyond the party's control and not attributable to its neglect or nonfeasance, in such event, the time for the performance of such obligation or duty shall be suspended until such disability to perform is removed. Determination of force majeure shall rest solely with H-GAC.

ARTICLE 32: CONFLICT OF INTEREST

No officer, member or employee of the Contractor or Contractors subcontractor, no member of the governing body of the Contractor, and no other public officials of the Contractor who exercise any functions or responsibilities in the review or Contractor approval of this Master Agreement, shall participate in any decision relating to this Master Agreement which affects his or her personal interest, or shall have any personal or pecuniary interest, direct or indirect, in this Master Agreement.

- A. **Conflict of Interest Questionnaire:** Chapter 176 of the Texas Local Government Code requires contractors contracting or seeking to contract with H-GAC to file a conflict-of-interest questionnaire (CIQ) if they have an employment or other business relationship with an H-GAC officer or an officer's close family member. The required questionnaire and instructions are located on the H-GAC website or at the Texas Ethics Commission website <https://www.ethics.state.tx.us/forms/CIQ.pdf>. H-GAC officers include its Board of Directors and Executive Director, who are listed on this website. Respondent must complete and file a CIQ with the Texas Ethics Commission if an employment or business relationship with H-GAC office or an officer's close family member as defined in the law exists.
- B. **Certificate of Interested Parties Form – Form 1295:** As required by Section 2252.908 of the Texas Government Code. H-GAC will not enter a Contract with Contractor unless (i) the Contractor submits a disclosure of interested parties form to H-GAC at the time the Contractor submits the contract H-GAC, or (ii) the Contractor is exempt from such requirement. The required form and instructions are located at the Texas Ethics Commission website https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm. Respondents who are awarded a Contract must submit their Form 1295 with the signed Contract to H-GAC.

ARTICLE 33: FEDERAL COMPLIANCE

Contractor agrees to comply with all federal statutes relating to nondiscrimination, labor standards, and environmental compliance. With regards to "Rights to Inventions Made Under a Contract or Master Agreement," If the Federal award meets the definition of "funding Master Agreement" under 37 CFR § 401.2 (a) and the recipient or subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that "funding Master Agreement," the recipient or subrecipient must comply with the requirements of 37 CFR Part 401, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Master Agreements," and any implementing regulations issued by the awarding agency. Contractor agrees to be wholly compliant with the provisions of 2 CFR 200, Appendix II. Additionally, for work to be performed under the Master Agreement or subcontract thereof, including procurement of materials or leases of equipment, Contractor shall notify each potential subcontractor or supplier of the Contractor's federal compliance obligations. These may include, but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§ 1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) the Fair Labor Standards Act of 1938 (29 USC 676 et. seq.), (d) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. § 794), which prohibits discrimination on the basis of handicaps and the Americans with Disabilities Act of 1990; (e) the Age Discrimination in Employment Act of 1967 (29 USC 621 et. seq.) and the Age Discrimination Act of 1974, as amended (42 U.S.C. §§ 6101-6107), which prohibits discrimination on the basis of age; (f) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (g) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to the nondiscrimination on the basis of alcohol abuse or alcoholism; (h) §§ 523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. 290 dd-3 and 290 ee-3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (i) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. § 3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (j) any other nondiscrimination provisions in any specific statute(s) applicable to any Federal funding for this Master Agreement; (k) the requirements of any other nondiscrimination statute(s) which may apply to this Master Agreement; (l) applicable provisions of the Clean Air Act (42 U.S.C. §7401 et seq.), the Federal Water Pollution Control Act, as amended (33 U.S.C. §1251 et seq.), Section 508 of the Clean Water Act (33 U.S.C. 1368), Executive Order 11738, and the Environmental Protection Agency regulations at 40 CFR Part 15; (m) applicable provisions of the Davis- Bacon Act (40 U.S.C. 276a - 276a-7), the Copeland Act (40 U.S.C. 276c), and the Contract Work Hours and Safety Standards Act (40 U.S.C. 327-332), as set forth in Department of Labor Regulations at 20 CFR 5.5a; (n) the mandatory standards and policies relating to energy efficiency which are

contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (P.L. 94-163).

ARTICLE 34: PROHIBITION ON CONTRACTING WITH ENTITIES USING CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE EQUIPMENT (EFFECTIVE AUG. 13, 2020 AND AS AMENDED OCTOBER 26, 2020)

Pursuant to 2 CFR 200.216, Contractor shall not offer equipment, services, or system that use covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. Covered telecommunications equipment or services means 1) telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities); 2) for the purpose of public safety, security of government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities); 3) telecommunications or video surveillance services provided by such entities or using such equipment; or 4) telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country. Respondent must comply with requirements for certifications. The provision at 48 C.F.R Section 52.204-26 requires that offerors review SAM prior to completing their required representations. This rule applies to all acquisitions, including acquisitions at or below the simplified acquisition threshold and to acquisitions of commercial items, including commercially available off the-shelf items.

ARTICLE 35: DOMESTIC PREFERENCE

In accordance with 2 CFR 200.322, as appropriate and to the extent consistent with law, when using federal grant award funds H-GAC should, to the greatest extent practicable, provide a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States (including but not limited to iron, aluminum, steel, cement, and other manufactured products). H-GAC must include this requirement in all subawards including all contracts and purchase orders for work or products under the federal grant award. If Contractor intends to qualify for Purchase Orders using federal grant money, then it shall work with H-GAC to provide all required certifications and other documentation needed to show compliance.

ARTICLE 36: CRIMINAL PROVISIONS AND SANCTIONS

The Contractor agrees to perform the Master Agreement in conformance with safeguards against fraud and abuse as set forth by the H-GAC, the State of Texas, and the acts and regulations of any related state or federal agency. The Contractor agrees to promptly notify H-GAC of any actual or suspected fraud, abuse, or other criminal activity through the filing of a written report within twenty-four (24) hours of knowledge thereof. Contractor shall notify H-GAC of any accident or incident requiring medical attention arising from its activities under this Master Agreement within twenty-four (24) hours of such occurrence. Theft or willful damage to property on loan to the Contractor from H-GAC, if any, shall be reported to local law enforcement agencies and H-GAC within two (2) hours of discovery of any such act.

The Contractor further agrees to cooperate fully with H-GAC, local law enforcement agencies, the State of Texas, the Federal Bureau of Investigation, and any other duly authorized investigative unit, in carrying out a full investigation of all such incidents.

The Contractor shall notify H-GAC of the threat of lawsuit or of any actual suit filed against the Contractor pertaining to this Master Agreement or which would adversely affect the Contractor's ability to perform services under this Master Agreement.

ARTICLE 37: INDEMNIFICATION AND RECOVERY

H-GAC's liability under this Master Agreement, whether for breach of contract, warranty, negligence, strict liability, in tort or otherwise, is limited to its order processing charge. In no event will H-GAC be liable for any loss of use, loss of time, inconvenience, commercial loss, lost profits, or savings or other incidental, special or consequential damages to the full extent such use may be disclaimed by law. Contractor agrees, to the extent permitted by law, to defend and hold harmless H-GAC, its board members, officers, agents, officials, employees, and indemnities from any and all claims, costs, expenses (including reasonable attorney fees), actions, causes of action, judgements, and liens arising as a result of Contractor's negligent act or omission under this Master Agreement. Contractor shall notify H-GAC of the threat of lawsuit or of any actual suit filed against Contractor relating to this Master Agreement.

ARTICLE 38: LIMITATION OF CONTRACTOR'S LIABILITY

Except as specified in any separate writing between the Contractor and an END USER, Contractor's total liability under this Master Agreement, whether for breach of contract, warranty, negligence, strict liability, in tort or otherwise, but excluding its obligation to indemnify H-GAC, is limited to the price of the particular products/services sold hereunder, and Contractor agrees either to refund the purchase price or to repair or replace product(s) that are not as warranted. In no event will Contractor be liable for any loss of use, loss of time, inconvenience, commercial loss, loss of profits or savings or other incidental, special or consequential damages to the full extent such use may be disclaimed by law. Contractor understands and agrees that it shall be liable to repay and shall repay upon demand to END USER any amounts determined by H-GAC, its independent auditors, or any agency of State or Federal government to have been paid in violation of the terms of this Master Agreement.

ARTICLE 39: TITLES NOT RESTRICTIVE

The titles assigned to the various Articles of this Master Agreement are for convenience only. Titles shall not be considered restrictive of the subject matter of any Article, or part of this Master Agreement.

ARTICLE 40: JOINT WORK PRODUCT

This Master Agreement is the joint work product of H-GAC and the Contractor. This Master Agreement has been negotiated by H-GAC and the Contractor and their respective counsel and shall be fairly interpreted in accordance with its terms and, in the event of any ambiguities, no inferences shall be drawn against any party.

ARTICLE 41: PROCUREMENT OF RECOVERED MATERIAL

H-GAC and the Respondent must comply with section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act. The requirements of Section 6002 include: (1) procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired during the preceding fiscal year exceeded \$10,000; (2) procuring solid waste management services in a manner that maximizes energy and resource recovery; and (3) establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines. Pursuant to the Federal Rule above, as required by the Resource Conservation and Recovery Act of 1976 (42 U.S.C. § 6962(c)(3)(A)(i)), Respondent certifies that the percentage of recovered materials content for EPA-designated items to be delivered or used in the performance of the Contract will be at least the amount required by the applicable contract specifications or other contractual requirements.

ARTICLE 42: COPELAND "ANTI-KICKBACK" ACT

Contractor shall comply with 18 U.S.C. § 874, 40 U.S.C. § 3145, and the requirements of 29 C.F.R. pt. 3 as may be applicable, which are incorporated by reference into the contract. The contractor or subcontractor shall insert in any subcontracts the clause above and such other clauses as appropriate agency instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all of these contract

clauses. A breach of the contract clauses above may be grounds for termination of the Contract, and for debarment as a contractor and subcontractor as provided in 29 C.F.R. § 5.12.

ARTICLE 43: DISCRIMINATION

Respondent and any potential subcontractors shall comply with all Federal statutes relating to nondiscrimination. These include, but are not limited to:

- a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352), which prohibits discrimination on the basis of race, color, or national origin;
- b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex;
- c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps;
- d) The Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101- 6107), which prohibits discrimination on the basis of age;
- e) The Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse;
- f) The Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism;
- g) Sections 523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee-3), as amended, relating to confidentiality of alcohol and drug abuse patient records;
- h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental, or financing of housing;
- i) Any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and
- j) The requirements of any other nondiscrimination statute(s) that may apply to the application.

ARTICLE 44: DRUG FREE WORKPLACE

Contractor must provide a drug-free workplace in accordance with the Drug-Free Workplace Act, as applicable. For the purposes of this Section, “drug-free” means a worksite at which employees are prohibited from engaging in the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance. H-GAC may request a copy of this policy.

ARTICLE 45: APPLICABILITY TO SUBCONTRACTORS

Respondent agrees that all contracts it awards pursuant to the contract awarded as a result of this Master Agreement will be bound by the foregoing terms and conditions.

ARTICLE 46: WARRANTY AND COPYRIGHT

Submissions must include all warranty information, including items covered, items excluded, duration, and renewability. Submissions must include proof of licensing if using third party code for programming.

ARTICLE 47: DATA HANDLING AND SECURITY

It will always be the responsibility of the selected Contractor to manage data transfer and to secure all data appropriately during the project to prevent unauthorized access to all data, products, and deliverables.

ARTICLE 48: DISPUTES

All disputes concerning questions of fact or of law arising under this Master Agreement, which are not addressed within the Whole Master Agreement as defined pursuant to Article 4 hereof, shall be decided by the Executive Director of H-GAC or his designee, who shall reduce his decision to writing and provide notice thereof to the Contractor. The decision of the Executive Director or his designee shall be final and conclusive unless, within

thirty (30) days from the date of receipt of such notice, the Contractor requests a rehearing from the Executive Director of H-GAC. In connection with any rehearing under this Article, the Contractor shall be afforded an opportunity to be heard and offer evidence in support of its position. The decision of the Executive Director after any such rehearing shall be final and conclusive. The Contractor may, if it elects to do so, appeal the final and conclusive decision of the Executive Director to a court of competent jurisdiction. Pending final decision of a dispute hereunder, the Contractor shall proceed diligently with the performance of the Master Agreement and in accordance with H-GAC's final decision.

ARTICLE 49: CHOICE OF LAW: VENUE

This Master Agreement shall be governed by the laws of the State of Texas. Venue and jurisdiction of any suit or cause of action arising under or in connection with the Master Agreement shall lie exclusively in Harris County, Texas. Disputes between END USER and Contractor are to be resolved in accordance with the law and venue rules of the state of purchase. Contractor shall immediately notify H-GAC of such disputes.

ARTICLE 50: ORDER OF PRIORITY

In the case of any conflict between or within this Master Agreement, the following order of priority shall be utilized: 1) General Provisions, 2) Special Provisions, 3) Scope of Work, and 4) Other Attachments.

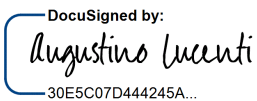
ARTICLE 51: WHOLE MASTER AGREEMENT

Please note, this is an H-GAC Master Agreement template and is used for all products and services offered in H-GAC Cooperative Purchasing. Any redlines to this Master Agreement may not be reviewed. If this Master Agreement has not been signed by the Contractor within 30 calendar days, this Master Agreement will be automatically voided. The Master General Provisions, Master Special Provisions, and Attachments, as provided herein, constitute the complete Master Agreement between the parties hereto, and supersede any and all oral and written Master Agreements between the parties relating to matters herein. Except as otherwise provided herein, this Master Agreement cannot be modified without written consent of the parties.

SIGNATURES:

H-GAC and the Contractor have read, agreed, and executed the whole Master Agreement as of the date first written above, as accepted by:

SIAE Microelettronica Inc

Signature  30E5C07D444245A...

Name Augustino Lucenti

Title GM/Executive VP

Date 8/17/2021

H-GAC

Signature  82EC270D5D61423...

Name Chuck Wemple

Title Executive Director

Date 8/17/2021

H-GAC

Houston-Galveston Area Council

P.O. Box 22777 · 3555 Timmons · Houston, Texas 77227-2777

Cooperative Agreement - Contract - SIAE Microelettronica Inc - Public Services - 7318

MASTER SPECIAL PROVISIONS

Please note, this is an H-GAC Master Agreement template and is used for all products and services offered in H-GAC Cooperative Purchasing. Any redlines to this Master Agreement may not be reviewed. Incorporated by attachment, as part of the whole Master Agreement, H-GAC and the Contractor do, hereby agree to the Master Special Provisions as follows:

ARTICLE 1: BIDS/PROPOSALS INCORPORATED

In addition to the whole Master Agreement, the following documents listed in order of priority are incorporated into the Master Agreement by reference: Bid/Proposal Specifications and Contractor's Response to the Bid/Proposal.

ARTICLE 2: END USER MASTER AGREEMENTS ("EUA")

H-GAC acknowledges that the END USER may choose to enter into an End User Master Agreement ("EUA") with the Contractor through this Master Agreement, and that the term of the EUA may exceed the term of the current H-GAC Master Agreement. H-GAC's acknowledgement is not an endorsement or approval of the End User Master Agreement's terms and conditions. Contractor agrees not to offer, agree to or accept from the END USER, any terms or conditions that conflict with those in Contractor's Master Agreement with H-GAC. Contractor affirms that termination of its Master Agreement with H-GAC for any reason shall not result in the termination of any underlying EUA, which shall in each instance, continue pursuant to the EUA's stated terms and duration. Pursuant to the terms of this Master Agreement, termination of this Master Agreement will disallow the Contractor from entering into any new EUA with END USERS. Applicable H-GAC order processing charges will be due and payable to H-GAC on any EUAs, surviving termination of this Master Agreement between H-GAC and Contractor.

ARTICLE 3: MOST FAVORED CUSTOMER CLAUSE

Contractor shall provide its most favorable pricing and terms to H-GAC. If at any time during this Master Agreement, Contractor develops a regularly followed standard procedure of entering into Master Agreements with other governmental customers within the State of Texas, and offers the same or substantially the same products/services offered to H-GAC on a basis that provides prices, warranties, benefits, and or terms more favorable than those provided to H-GAC, Contractor shall notify H-GAC within ten (10) business days thereafter, and this Master Agreement shall be deemed to be automatically retroactively amended, to the effective date of Contractor's most favorable past Master Agreement with another entity. Contractor shall provide the same prices, warranties, benefits, or terms to H-GAC and its END USER as provided in its most favorable past Master Agreement. H-GAC shall have the right and option at any time to decline to accept any such change, in which case the amendment shall be deemed null and void. If Contractor claims that a more favorable price, warranty, benefit, or term that was charged or offered to another entity during the term of this Master Agreement, does not constitute more favorable treatment, than Contractor shall, within ten (10) business days, notify H-GAC in writing, setting forth the detailed reasons Contractor believes the aforesaid offer is not in fact most favored treatment. H-GAC, after due consideration of Contractor's written explanation, may decline to accept such explanation and thereupon this Master Agreement between H-GAC and Contractor shall be automatically amended, effective retroactively, to the effective date of the most favored Master Agreement, to provide the same prices, warranties, benefits, or terms to H-GAC and the END USER.

EXCEPTION: This clause shall not be applicable to prices and price adjustments offered by a bidder,

proposer or contractor, which are not within bidder's/proposer's control [example; a manufacturer's bid concession], or to any prices offered to the Federal Government and its agencies.

ARTICLE 4: PARTY LIABILITY

Contractor's total liability under this Master Agreement, whether for breach of contract, warranty, negligence, strict liability, in tort or otherwise, is limited to the price of the particular products/services sold hereunder. Contractor agrees either to refund the purchase price or to repair or replace product(s) that are not as warranted. Contractor accepts liability to repay, and shall repay upon demand to END USER, any amounts determined by H-GAC, its independent auditors, or any state or federal agency, to have been paid in violation of the terms of this Master Agreement.

ARTICLE 5: GOVERNING LAW & VENUE

Contractor and H-GAC agree that Contractor will make every reasonable effort to resolve disputes with the END USER in accord with the law and venue rules of the state of purchase. Contractor shall immediately notify H-GAC of such disputes.

ARTICLE 6: SALES AND ORDER PROCESSING CHARGE

Contractor shall sell its products to END USERS based on the pricing and terms of this Master Agreement. H-GAC will invoice Contractor for the applicable order processing charge when H-GAC receives notification of an END USER order. Contractor shall remit to H-GAC the full amount of the applicable order processing charge, after delivery of any product or service and subsequent END USER acceptance. Payment of the Order Processing Charge shall be remitted from Contractor to H-GAC, within thirty (30) calendar days or ten (10) business days after receipt of an END USER's payment, whichever comes first, notwithstanding Contractor's receipt of invoice. For sales made by Contractor based on this Master Agreement, including sales to entities without Interlocal Master Agreements, Contractor shall pay the applicable order processing charges to H-GAC. Further, Contractor agrees to encourage entities who are not members of H-GAC's Cooperative Purchasing Program to execute an H-GAC Interlocal Master Agreement. H-GAC reserves the right to take appropriate actions including, but not limited to, Master Agreement termination if Contractor fails to promptly remit the appropriate order processing charge to H-GAC. In no event shall H-GAC have any liability to Contractor for any goods or services an END USER procures from Contractor. At all times, Contractor shall remain liable to pay to H-GAC any order processing charges on any portion of the Master Agreement actually performed, and for which compensation was received by Contractor.

ARTICLE 7: LIQUIDATED DAMAGES

Contractor and H-GAC agree that Contractor shall cooperate with the END USER at the time an END USER purchase order is placed, to determine terms for any liquidated damages.

ARTICLE 8: INSURANCE

Unless otherwise stipulated in Section B of the Bid/Proposal Specifications, Contractor must have the following insurance and coverage minimums:

- a. General liability insurance with a Single Occurrence limit of at least ,000,000.00, and a General Aggregate limit of at least two times the Single Occurrence limit.
- b. Product liability insurance with a Single Occurrence limit of at least ,000,000.00, and a General Aggregate limit of at least two times the Single Occurrence limit for all Products except Automotive Fire Apparatus. For Automotive Fire Apparatus, see Section B of the Bid/Proposal Specifications.
- c. Property Damage or Destruction insurance is required for coverage of End User owned equipment while in Contractor's possession, custody or control. The minimum Single Occurrence limit is ,000.00 and the General Aggregate limit must be at least two times the Single Occurrence limit. This insurance may be carried in several ways, e.g. under an Inland Marine policy, as art of Automobile coverage, or under a

Garage Keepers policy. In any event, this coverage must be specifically and clearly listed on insurance certificate(s) submitted to H-GAC.

- d. Insurance coverage shall be in effect for the length of any contract made pursuant to the Bid/Proposal, and for any extensions thereof, plus the number of days/months required to deliver any outstanding order after the close of the contract period.
- e. Original Insurance Certificates must be furnished to H-GAC on request, showing Contractor as the insured and showing coverage and limits for the insurances listed above.
- f. If any Product(s) or Service(s) will be provided by parties other than Contractor, all such parties are required to carry the minimum insurance coverages specified herein, and if requested by H-GAC, a separate insurance certificate must be submitted for each such party.
- g. H-GAC reserves the right to contact insurance underwriters to confirm policy and certificate issuance and document accuracy.

ARTICLE 9: PERFORMANCE AND PAYMENT BONDS FOR INDIVIDUAL ORDERS

H-GAC's contractual requirements DO NOT include a Performance & Payment Bond (PPB); therefore, Contractor shall offer pricing that reflects this cost savings. Contractor shall remain prepared to offer a PPB to cover any order if so requested by the END USER. Contractor shall quote a price to END USER for provision of any requested PPB, and agrees to furnish the PPB within ten business (10) days of receipt of END USER's purchase order.

ARTICLE 10: ORDER PROCESSING CHARGE

H-GAC will apply an Order Processing Charge for each sale done through the H-GAC contract, with the exception of orders for motor vehicles. Any pricing submitted must include this charge amount per the most current H-GAC schedule. For motor vehicle orders, the Processing Charge is paid by the Customer.

ARTICLE 11: CHANGE OF STATUS

Contractor shall immediately notify H-GAC, in writing, of ANY change in ownership, control, dealership/franchisee status, Motor Vehicle license status, or name. Contractor shall offer written guidance to advise H-GAC if this Master Agreement shall be affected in any way by such change. H-GAC shall have the right to determine whether or not such change is acceptable, and to determine what action shall be warranted, up to and including cancellation of Master Agreement.

ARTICLE 11: REQUIREMENTS TO APPLICABLE PHYSICAL GOODS

In the case of physical goods (e.g. equipment, material, supplies, as opposed to services), all Products offered must comply with any applicable provisions of the Texas Business and Commerce Code, Title 1, Chapter 2 and with at least the following:

- a. Be new, unused, and not refurbished.
- b. Not be a prototype as the general design, operation and performance. This requirement is NOT meant to preclude the Contractor from offering new models or configurations which incorporate improvements in a current design or add functionality, but in which new model or configuration may be new to the marketplace.
- c. Include all accessories which may or may not be specifically mentioned in the Master Agreement, but which are normally furnished or necessary to make the Product ready for its intended use upon delivery. Such accessories shall be assembled, installed and adjusted to allow continuous operation of Product at time of delivery.
- d. Have assemblies, sub-assemblies and component parts that are standard and interchangeable throughout the entire quantity of a Product as may be purchased simultaneously by any Customer.
- e. Be designed and constructed using current industry accepted engineering and safety practices, and materials.

- f. Be available for inspection at any time prior to or after procurement.

ARTICLE 12: TEXAS MOTOR VEHICLE BOARD LICENSING

All Contractors that deal in motor vehicles shall maintain current licenses that are required by the Texas Motor Vehicle Commission Code. If at any time during this Master Agreement term, any required Contractor license is denied, revoked, or not renewed, Contractor shall be in default of this Master Agreement, unless the Texas Motor Vehicle Board issues a stay or waiver. Contractor shall promptly provide copies of all current applicable Texas Motor Vehicle Board documentation to H-GAC upon request.

ARTICLE 13: INSPECTION/TESTING

All Products sold pursuant to this Master Agreement will be subject to inspection/testing by or at the direction of H-GAC and/or the ordering Customer, either at the delivery destination or the place of manufacture. In the event a Product fails to meet or exceed all requirements of this Master Agreement, and unless otherwise agreed in advance, the cost of any inspection and/or testing, will be the responsibility of the Contractor.

ARTICLE 14: ADDITIONAL REPORTING REQUIREMENTS

Contractor agrees to submit written quarterly reports to H-GAC detailing all transactions during the previous three (3) month period. Reports must include, but are not limited, to the following information:

- a. Customer Name
- b. Product/Service purchased, including Product Code if applicable
- c. Customer Purchase Order Number
- d. Purchase Order Date
- e. Product/Service dollar amount
- f. HGACBuy Order Processing Charge amount

ARTICLE 15: BACKGROUND CHECKS

Cooperative customers may request background checks on any awarded contractor's employees who will have direct contact with students, or for any other reason they so choose, any may require contractor to pay the cost of obtaining any background information requested by the Customer.

ARTICLE 16: PROHIBITION ON CONTRACTS WITH COMPANIES BOYCOTTING ISRAEL CERTIFICATION

As required by Chapter 2271 of the Texas Local Government Code the Contractor must verify that it 1) does not boycott Israel; and 2) will not boycott Israel during the term of the Contract. Pursuant to Section 2271.001, 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.

ARTICLE 17: NO EXCLUDED NATION OR TERRORIST ORGANIZATION CERTIFICATION

As required by Chapter 2252 of the Texas Government Code the Contractor must certify that it is not a company engaged in active business operations with Sudan, Iran, or a foreign terrorist organization – specifically, any company identified on a list prepared and maintained by the Texas Comptroller under Texas Government Code §§806.051, 807.051, or 2252.153. (A company that the U.S. Government affirmatively

declares to be excluded from its federal sanctions regime relating to Sudan, Iran, or any federal sanctions regime relating to a foreign terrorist organization is not subject to the contract prohibition.)

ARTICLE 18: PROHIBITION ON CONTRACTING WITH ENTITIES USING CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE EQUIPMENT (Effective Aug. 13, 2020 and as amended October 26, 2020)

Pursuant to 2 CFR 200.216, Contractor shall not offer equipment, services, or system that use covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. “Covered telecommunications equipment or services means 1) telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities); 2) for the purpose of public safety, security of government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities); 3) telecommunications or video surveillance services provided by such entities or using such equipment; or 4) telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

Contractor must comply with requirements for certifications. The provision at 48 C.F.R Section 52.204-26 requires that Contractors review SAM prior to completing their required representations. This rule applies to all acquisitions, including acquisitions at or below the simplified acquisition threshold and to acquisitions of commercial items, including commercially available off the-shelf items.

ARTICLE 19: BUY AMERICA ACT (National School Lunch Program and Breakfast Program)

With respect to products purchased by Customers for use in the National School Lunch Program and/or National School Breakfast Program, Contractor shall comply with all federal procurement laws and regulations with respect to such programs, including the Buy American provisions set forth in 7 C.F.R. Part 210.21(d), to the extent applicable. Contractor agrees to provide all certifications required by Customer regarding such programs.

In the event Contractor or Contractor’s supplier(s) are unable or unwilling to certify compliance with the Buy American Provision, or the applicability of an exception to the Buy American provision, H-GAC Customers may decide not to purchase from Contractor. Additionally, H-GAC Customers may require country of origin on all products and invoices submitted for payment by Contractor, and Contractor agrees to comply with any such requirement.

ARTICLE 20: BUY AMERICA REQUIREMENT (Applies only to Federally Funded Highway and Transit Projects)

With respect to products purchased by Customer for use in federally funded highway projects, Contractor shall comply with all federal procurement laws and regulations with respect to such projects, including the Buy American provisions set forth in 23 U.S.C. Section 313, 23 C.F.R. Section 635.410, as amended, and the Steel and Iron Preference provisions of Texas Transportation Code Section 223.045, to the extent applicable. Contractor agrees to provide all certifications required by Customer regarding such programs. With respect to products purchased by Customer for use in federally funded transit projects, Contractor shall comply with all federal procurement laws and regulations with respect to such projects, including the Buy American provisions set forth in 49 U.S.C. Section 5323(j)(1), 49 C.F.R. Sections 661.6 or 661.12, to the extent applicable. Contractor agrees to provide all certifications required by Customer regarding such programs.

ARTICLE 21: DOMESTIC PREFERENCE

In accordance with 2 CFR 200.322, as appropriate and to the extent consistent with law, a Customer using federal grant award funds should, to the greatest extent practicable, provide a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States (including but not limited to iron, aluminum, steel, cement, and other manufactured products). The Customer must include this requirement in all subawards including all contracts and purchase orders for work or products under the federal grant award. If Contractor intends to qualify for Purchase Orders using federal grant money, the it shall work with the Customer to provide all required certifications and other documentation needed to show compliance.

ARTICLE 22: TITLE VI REQUIREMENTS

H-GAC in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that any disadvantaged business enterprises will be afforded full and fair opportunity to submit in response to this Master Agreement and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

ARTICLE 23: EQUAL EMPLOYMENT OPPORTUNITY

Except as otherwise provided under 41 CFR Part 60, all Contracts and Customer Purchase Orders that meet the definition of “federally assisted construction contract” in 41 CFR Part 60-1.3 shall be deemed to include the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246, “Equal Employment Opportunity” (30 FR 12319, 12935, 3 CFR Part, 1964-1965 Comp., pg.339), as amended by Executive Order 11375, “Amending Executive Order 11246 Relating to Equal Employment Opportunity,” and implementing regulations at 41CFR Part 60, “Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor.”

The equal opportunity clause provided under 41 CFR 60-1.4(b) is hereby incorporated by reference. Contractor agrees that such provision applies to any contract that meets the definition of “federally assisted construction contract” in 41 CFR Part 60-1.3 and agrees that it will comply with such provision.

ARTICLE 24: CLEAN AIR AND WATER POLLUTION CONTROL ACT

Customer Purchase Orders using federal funds must contain a provision that requires the Contractor to agree to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

Pursuant to the Federal Rule above, Contractor certifies that it is in compliance with all applicable provisions of the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251-1387) and will remain in compliance during the term of the Contract.

ARTICLE 25: PREVAILING WAGE

Contractor and any potential subcontractors have a duty to and shall pay the prevailing wage rate under the Davis-Bacon Act, 40 U.S.C. 276a – 276a-5, as amended, and the regulations adopted thereunder contained in 29 C.F.R. pt. 1 and 5.

ARTICLE 26: CONTRACT WORK HOURS AND SAFETY STANDARDS

As per the Contract Work Hours and Safety Standards Act (40 U.S.C. 3701-3708), where applicable, all Customer Purchase Orders in excess of ,000 that involve the employment of mechanics or laborers must include

a provision for compliance with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

ARTICLE 27: PROFIT AS A SEPARATE ELEMENT OF PRICE

For purchases using federal funds in excess of ,000, a Customer may be required to negotiate profit as a separate element of the price. See, 2 CFR 200.323(b). Contractor agrees to provide information and negotiate with the Customer regarding profit as a separate element of the price for the purchase. Contractor also agrees that the total price, including profit, charged by Contractor to Customer will not exceed the awarded pricing, including any applicable discount, under any awarded contract.

ARTICLE 28: BYRD ANTI-LOBBYING AMENDMENT

Byrd Anti-Lobbying Amendment (31U.S.C. 1352) – Contractors that apply or bid for an award exceeding ,000 must file the required anti-lobbying certification. Each tier must certify to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the Customer. As applicable, Contractor agrees to file all certifications and disclosures required by, and otherwise comply with, the Byrd Anti-Lobbying Amendment (31 USC 1352). Contractor certifies that it is currently in compliance with all applicable provisions of the Byrd Anti-Lobbying Amendment (31 U.S.C. 1352) and will continue to be in compliance throughout the term of the Contract and further certifies that:

1. No Federal appropriated funds have been paid or will be paid by or on behalf of the Contractor, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of a Federal contract, the making of a Federal Grant, the making of a Federal Loan, the entering into a cooperative Master Agreement, and the extension, continuation, renewal, amendment, or modification of a Federal contract, grant, loan, or cooperative Master Agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing, or attempting to influence, an officer or employee of a Member of Congress in connection with a Federal contract, grant, loan, or cooperative Master Agreement, Contractor shall complete and submit Standard Form – LLL, “Disclosure Form to Report Lobbying”, in accordance with its instructions.
3. Contractor shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative Master Agreements) and that all subcontractors shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certificate is a prerequisite for making or entering into this transaction imposed by Section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than ,000 and not more than ,000 for each such failure.

ARTICLE 29: COMPLIANCE WITH EPA REGULATIONS APPLICABLE TO GRANTS, SUBGRANTS, COOPERATIVE MASTER AGREEMENTS, AND CONTRACTS

Contractor certifies compliance with all applicable standards, orders, regulations, and/or requirements issued pursuant to the Clean Air Act of 1970, as amended (42 U.S.C. 1857(h)), Section 508 of the Clean Water Act, as amended (13 U.S.C. 1368), Executive Order 117389 and Environmental Protection Agency Regulation, 40 CFR Part 15.

ARTICLE 30: COMPLIANCE WITH ENERGY POLICY AND CONSERVATION ACT

Contractor certifies that Contractor will be in compliance with mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (Pub. L. 94-163, 89 Stat. 871).

Attachment A
SIAE Microelettronica Inc
Radio Communications/Emergency Response Equipment
Contract No.: RA05-21

ALFOPlus2XG
(6 - 23 GHz)

SF Product Name	SIAE Product Code	Description	Availability	Product Family	Unit	LIST Price (\$)
ALFOPlus2XG 6 - 23 GHz Microwave Radio Link						
L6 GHz						
AP2XG-6L-O-LNK-B1	LNKAO2XG06LGSB1SPDP	ALFOPlus2XG L6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1000 Mbps, LINK, Sub-Band 1, (5900 - 5990 MHz / 6152 - 6242 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, OMT Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-6L-O-LNK-B2	LNKAO2XG06LGSB2SPDP	ALFOPlus2XG L6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1000 Mbps, LINK, Sub-Band 2, (5959 - 6049 MHz / 6211 - 6301 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, OMT Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-6L-O-LNK-B3	LNKAO2XG06LGSB3SPDP	ALFOPlus2XG L6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1000 Mbps, LINK, Sub-Band 3, (6019 - 6109 MHz / 6271 - 6361 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, OMT Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-6L-O-LNK-B4	LNKAO2XG06LGSB4SPDP	ALFOPlus2XG L6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1000 Mbps, LINK, Sub-Band 4, (6078 - 6168 MHz / 6330 - 6420 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, OMT Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-6L-W-LNK-B1	LNKAO2XG06LGSB1	ALFOPlus2XG L6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1000 Mbps, LINK, Sub-Band 1, (5900 - 5990 MHz / 6152 - 6242 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, Dual Waveguide Port Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-6L-W-LNK-B2	LNKAO2XG06LGSB2	ALFOPlus2XG L6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1000 Mbps, LINK, Sub-Band 2, (5959 - 6049 MHz / 6211 - 6301 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, Dual Waveguide Port Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-6L-W-LNK-B3	LNKAO2XG06LGSB3	ALFOPlus2XG L6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1000 Mbps, LINK, Sub-Band 3, (6019 - 6109 MHz / 6271 - 6361 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, Dual Waveguide Port Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-6L-W-LNK-B4	LNKAO2XG06LGSB4	ALFOPlus2XG L6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1000 Mbps, LINK, Sub-Band 4, (6078 - 6168 MHz / 6330 - 6420 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, Dual Waveguide Port Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
U6 GHz						
AP2XG-6U-O-LNK-B1	LNKAO2XG06UGSB1SPDP	ALFOPlus2XG U6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 510 Mbps, LINK, Sub-Band 1, (6540 - 6610 MHz / 6700 - 6770 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, OMT Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-6U-O-LNK-B2	LNKAO2XG06UGSB2SPDP	ALFOPlus2XG U6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 510 Mbps, LINK, Sub-Band 2, (6605 - 6675 MHz / 6765 - 6835 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, OMT Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-6U-O-LNK-B3	LNKAO2XG06UGSB3SPDP	ALFOPlus2XG U6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 510 Mbps, LINK, Sub-Band 3, (6635 - 6705 MHz / 6795 - 6865 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, OMT Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-6U-W-LNK-B1	LNKAO2XG06UGSB1	ALFOPlus2XG U6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 510 Mbps, LINK, Sub-Band 1, (6540 - 6610 MHz / 6700 - 6770 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, Dual Waveguide Port Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00

AP2XG-6U-W-LNK-B2	LNKAO2XG06UGSB2	ALFOPlus2XG U6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 510 Mbps, LINK, Sub-Band 2, (6605 - 6675 MHz / 6765 - 6835 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, Dual Waveguide Port Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-6U-W-LNK-B3	LNKAO2XG06UGSB3	ALFOPlus2XG U6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 510 Mbps, LINK, Sub-Band 3, (6635 - 6705 MHz / 6795 - 6865 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, Dual Waveguide Port Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
7 GHz						
AP2XG-7-O-LNK-B1	LNKAO2XG07GSB1SPDP	ALFOPlus2XG 7 GHz, 100 Mbps full-duplex capacity, software upgradeable to 500 Mbps, LINK, Sub-Band 1, (6875 - 6925 MHz / 7025 - 7075 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, OMT Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-7-O-LNK-B2	LNKAO2XG07GSB2SPDP	ALFOPlus2XG 7 GHz, 100 Mbps full-duplex capacity, software upgradeable to 500 Mbps, LINK, Sub-Band 2, (6925 - 6975 MHz / 7075 - 7125 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, OMT Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-7-W-LNK-B1	LNKAO2XG07GSB1	ALFOPlus2XG 7 GHz, 100 Mbps full-duplex capacity, software upgradeable to 500 Mbps, LINK, Sub-Band 1, (6875 - 6925 MHz / 7025 - 7075 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, Dual Waveguide Port Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-7-W-LNK-B2	LNKAO2XG07GSB2	ALFOPlus2XG 7 GHz, 100 Mbps full-duplex capacity, software upgradeable to 500 Mbps, LINK, Sub-Band 2, (6925 - 6975 MHz / 7075 - 7125 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, Dual Waveguide Port Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
11 GHz						
AP2XG-11-O-LNK-B1	LNKAO2XG011GSB1SPDP	ALFOPlus2XG 11 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1500 Mbps, LINK, Sub-Band 1, (10715 - 10895 MHz / 11205 - 11385 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, OMT Port Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-11-O-LNK-B2	LNKAO2XG011GSB2SPDP	ALFOPlus2XG 11 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1500 Mbps, LINK, Sub-Band 2, (10875 - 11055 MHz / 11365 - 11545 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, OMT Port Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-11-O-LNK-B3	LNKAO2XG011GSB3SPDP	ALFOPlus2XG 11 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1500 Mbps, LINK, Sub-Band 3, (11035 - 11215 MHz / 11525 - 11705 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, OMT Port Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-11-W-LNK-B1	LNKAO2XG011GSB1DPDP	ALFOPlus2XG 11 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1500 Mbps, LINK, Sub-Band 1, (10715 - 10895 MHz / 11205 - 11385 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, Dual Waveguide Port Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-11-W-LNK-B2	LNKAO2XG011GSB2DPDP	ALFOPlus2XG 11 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1500 Mbps, LINK, Sub-Band 2, (10875 - 11055 MHz / 11365 - 11545 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, Dual Waveguide Port Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-11-W-LNK-B3	LNKAO2XG011GSB3DPDP	ALFOPlus2XG 11 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1500 Mbps, LINK, Sub-Band 3, (11035 - 11215 MHz / 11525 - 11705 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, Dual Waveguide Port Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-11-H-LNK-B1	LNKAO2XG011GSB1SPSP	ALFOPlus2XG 11 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1500 Mbps, LINK, Sub-Band 1, (10715 - 10895 MHz / 11205 - 11385 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, Hybrid (3dB Coupler) Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-11-H-LNK-B2	LNKAO2XG011GSB2SPSP	ALFOPlus2XG 11 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1500 Mbps, LINK, Sub-Band 2, (10875 - 11055 MHz / 11365 - 11545 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, Hybrid (3dB Coupler) Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-11-H-LNK-B3	LNKAO2XG011GSB3SPSP	ALFOPlus2XG 11 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1500 Mbps, LINK, Sub-Band 3, (11035 - 11215 MHz / 11525 - 11705 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, Hybrid (3dB Coupler) Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-11-X-LNK-B1	LNKAO2XG011GSB1NOBU	ALFOPlus2XG 11 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1500 Mbps, LINK, Sub-Band 1, (10715 - 10895 MHz / 11205 - 11385 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Link	\$ 15,550.00
AP2XG-11-X-LNK-B2	LNKAO2XG011GSB2NOBU	ALFOPlus2XG 11 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1500 Mbps, LINK, Sub-Band 2, (10875 - 11055 MHz / 11365 - 11545 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Link	\$ 15,550.00

AP2XG-15-O-LNK-B1	LNKAO2XG015GSB1SPDP	ALFOPlus2XG 15 GHz, 100 Mbps full-duplex capacity, software upgradeable to 700 Mbps, LINK, Sub-Band 1, (14500 - 14600 MHz / 14975 - 15075 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, OMT Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-15-O-LNK-B2	LNKAO2XG015GSB2SPDP	ALFOPlus2XG 15 GHz, 100 Mbps full-duplex capacity, software upgradeable to 700 Mbps, LINK, Sub-Band 2, (14600 - 14870 MHz / 15075 - 15345 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, OMT Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-15-W-LNK-B1	LNKAO2XG015GSB1DPDP	ALFOPlus2XG 15 GHz, 100 Mbps full-duplex capacity, software upgradeable to 700 Mbps, LINK, Sub-Band 1, (14500 - 14600 MHz / 14975 - 15075 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, Dual Waveguide Port Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-15-W-LNK-B2	LNKAO2XG015GSB2DPDP	ALFOPlus2XG 15 GHz, 100 Mbps full-duplex capacity, software upgradeable to 700 Mbps, LINK, Sub-Band 2, (14600 - 14870 MHz / 15075 - 15345 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, Dual Waveguide Port Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-15-H-LNK-B1	LNKAO2XG015GSB1SPSP	ALFOPlus2XG 15 GHz, 100 Mbps full-duplex capacity, software upgradeable to 700 Mbps, LINK, Sub-Band 1, (14500 - 14600 MHz / 14975 - 15075 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, Hybrid Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-15-H-LNK-B2	LNKAO2XG015GSB2SPSP	ALFOPlus2XG 15 GHz, 100 Mbps full-duplex capacity, software upgradeable to 700 Mbps, LINK, Sub-Band 2, (14600 - 14870 MHz / 15075 - 15345 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, Hybrid Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-15-X-LNK-B1	LNKAO2XG015GSB1NOBU	ALFOPlus2XG 15 GHz, 100 Mbps full-duplex capacity, software upgradeable to 700 Mbps, LINK, Sub-Band 1, (14500 - 14600 MHz / 14975 - 15075 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Link	\$ 15,550.00
AP2XG-15-X-LNK-B2	LNKAO2XG015GSB2NOBU	ALFOPlus2XG 15 GHz, 100 Mbps full-duplex capacity, software upgradeable to 700 Mbps, LINK, Sub-Band 2, (14600 - 14870 MHz / 15075 - 15345 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Link	\$ 15,550.00
18 GHz						
AP2XG-18-W-LNK-B1	LNKAO2XG018GSB1DPDP	ALFOPlus2XG 18 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1500 Mbps, LINK, Sub-Band 1, (17700 - 18140 MHz / 19260 - 19700 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, Dual Waveguide Port Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-18-O-LNK-B1	LNKAO2XG018GSB1SPDP	ALFOPlus2XG 18 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1500 Mbps, LINK, Sub-Band 1, (17700 - 18140 MHz / 19260 - 19700 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, OMT Port Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-18-H-LNK-B1	LNKAO2XG018GSB1SPSP	ALFOPlus2XG 18 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1500 Mbps, LINK, Sub-Band 1, (17700 - 18140 MHz / 19260 - 19700 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, Hybrid (3dB Coupler) Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-18-X-LNK-B1	LNKAO2XG018GSB1NOBU	ALFOPlus2XG 18 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1500 Mbps, LINK, Sub-Band 1, (17700 - 18140 MHz / 19260 - 19700 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Link	\$ 15,550.00
23 GHz						
AP2XG-23-O-LNK-B1	LNKAO2XG023GSB1SPDP	ALFOPlus2XG 23 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1000 Mbps, LINK, Sub-Band 1, (21200 - 21605.5 MHz / 22400 - 22805.5 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, OMT Port Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-23-O-LNK-B2	LNKAO2XG023GSB2SPDP	ALFOPlus2XG 23 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1000 Mbps, LINK, Sub-Band 2, (21600 - 22000 MHz / 22800 - 23200 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, OMT Port Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-23-O-LNK-B3	LNKAO2XG023GSB3SPDP	ALFOPlus2XG 23 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1000 Mbps, LINK, Sub-Band 3, (21997.5 - 22400 MHz / 23197.5 - 23600 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, OMT Port Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00

AP2XG-23-W-LNK-B1	LNKAO2XG023GSB1DPDP	ALFOPlus2XG 23 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1000 Mbps, LINK, Sub-Band 1, (21200 - 21605.5 MHz / 22400 - 22805.5 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, Dual Waveguide Port Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-23-W-LNK-B2	LNKAO2XG023GSB2DPDP	ALFOPlus2XG 23 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1000 Mbps, LINK, Sub-Band 2, (21600 - 22000 MHz / 22800 - 23200 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, Dual Waveguide Port Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-23-W-LNK-B3	LNKAO2XG023GSB3DPDP	ALFOPlus2XG 23 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1000 Mbps, LINK, Sub-Band 3, (21997.5 - 22400 MHz / 23197.5 - 23600 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, Dual Waveguide Port Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-23-H-LNK-B1	LNKAO2XG023GSB1SPSP	ALFOPlus2XG 23 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1000 Mbps, LINK, Sub-Band 1, (21200 - 21605.5 MHz / 22400 - 22805.5 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, Hybrid (3dB Coupler) Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-23-H-LNK-B2	LNKAO2XG023GSB2SPSP	ALFOPlus2XG 23 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1000 Mbps, LINK, Sub-Band 2, (21600 - 22000 MHz / 22800 - 23200 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, Hybrid (3dB Coupler) Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-23-H-LNK-B3	LNKAO2XG023GSB3SPSP	ALFOPlus2XG 23 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1000 Mbps, LINK, Sub-Band 3, (21997.5 - 22400 MHz / 23197.5 - 23600 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, Hybrid (3dB Coupler) Radio Branching, 1 year warranty	Q1 2020	Microwave	Link	\$ 16,450.00
AP2XG-23-X-LNK-B1	LNKAO2XG023GSB1NOBU	ALFOPlus2XG 23 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1000 Mbps, LINK, Sub-Band 1, (21200 - 21605.5 MHz / 22400 - 22805.5 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Link	\$ 15,550.00
AP2XG-23-X-LNK-B2	LNKAO2XG023GSB2NOBU	ALFOPlus2XG 23 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1000 Mbps, LINK, Sub-Band 2, (21600 - 22000 MHz / 22800 - 23200 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Link	\$ 15,550.00
AP2XG-23-X-LNK-B3	LNKAO2XG023GSB3NOBU	ALFOPlus2XG 23 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1000 Mbps, LINK, Sub-Band 3, (21997.5 - 22400 MHz / 23197.5 - 23600 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Link	\$ 15,550.00
ALFOPlus2XG 6 - 23 GHz Microwave Radio Terminal L6 GHz						
AP2XG-6L-HBT-B1	GC8501-30	ALFOPlus2XG L6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 533 Mbps, High Band ODU, Sub Band 1, (5900 - 5990 MHz / 6152 - 6242 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-6L-LBT-B1	GC8500-30	ALFOPlus2XG L6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 533 Mbps, Low Band ODU, Sub Band 1, (5900 - 5990 MHz / 6152 - 6242 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-6L-HBT-B2	GC8503-30	ALFOPlus2XG L6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 533 Mbps, High Band ODU, Sub Band 2, (5959 - 6049 MHz / 6211 - 6301 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-6L-LBT-B2	GC8502-30	ALFOPlus2XG L6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 533 Mbps, Low Band ODU, Sub Band 2, (5959 - 6049 MHz / 6211 - 6301 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-6L-HBT-B3	GC8505-30	ALFOPlus2XG L6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 533 Mbps, High Band ODU, Sub Band 3, (6019 - 6109 MHz / 6271 - 6361 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-6L-LBT-B3	GC8504-30	ALFOPlus2XG L6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 533 Mbps, Low Band ODU, Sub Band 3, (6019 - 6109 MHz / 6271 - 6361 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-6L-HBT-B4	GC8507-30	ALFOPlus2XG L6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 533 Mbps, High Band ODU, Sub Band 4, (6078 - 6168 MHz / 6330 - 6420 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00

AP2XG-6L-LBT-B4	GC8506-30	ALFOPlus2XG L6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 533 Mbps, Low Band ODU, Sub-Band 4, (6078 - 6168 MHz / 6330 - 6420 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
U6 GHz						
AP2XG-6U-HBT-B1	GC8421-30	ALFOPlus2XG U6 GHz, 100 Mbps full-duplex capacity, software upgradeable to 250 Mbps, High Band ODU, Sub-Band 1, (6540 - 6610 MHz / 6700 - 6770 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-6U-LBT-B1	GC8420-30	ALFOPlus2XG U6 GHz, 100 Mbps full-duplex capacity, software upgradeable to 250 Mbps, Low Band ODU, Sub-Band 1, (6540 - 6610 MHz / 6700 - 6770 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-6U-HBT-B2	GC8423-30	ALFOPlus2XG U6 GHz, 100 Mbps full-duplex capacity, software upgradeable to 250 Mbps, High Band ODU, Sub-Band 2, (6605 - 6675 MHz / 6765 - 6835 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-6U-LBT-B2	GC8422-30	ALFOPlus2XG U6 GHz, 100 Mbps full-duplex capacity, software upgradeable to 250 Mbps, Low Band ODU, Sub-Band 2, (6605 - 6675 MHz / 6765 - 6835 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-6U-HBT-B3	GC8425-30	ALFOPlus2XG U6 GHz, 100 Mbps full-duplex capacity, software upgradeable to 250 Mbps, High Band ODU, Sub-Band 3, (6635 - 6705 MHz / 6795 - 6865 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-6U-LBT-B3	GC8424-30	ALFOPlus2XG U6 GHz, 100 Mbps full-duplex capacity, software upgradeable to 250 Mbps, Low Band ODU, Sub-Band 3, (6635 - 6705 MHz / 6795 - 6865 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
7 GHz						
AP2XG-7-HBT-B1	GC8427-30	ALFOPlus2XG 7 GHz, 100 Mbps full-duplex capacity, software upgradeable to 250 Mbps, High Band ODU, Sub-Band 1, (6875 - 6925 MHz / 7025 - 7075 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-7-LBT-B1	GC8426-30	ALFOPlus2XG 7 GHz, 100 Mbps full-duplex capacity, software upgradeable to 250 Mbps, Low Band ODU, Sub-Band 1, (6875 - 6925 MHz / 7025 - 7075 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-7-HBT-B2	GC8429-30	ALFOPlus2XG 7 GHz, 100 Mbps full-duplex capacity, software upgradeable to 250 Mbps, High Band ODU, Sub-Band 2, (6925 - 6975 MHz / 7075 - 7125 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-7-LBT-B2	GC8428-30	ALFOPlus2XG 7 GHz, 100 Mbps full-duplex capacity, software upgradeable to 250 Mbps, Low Band ODU, Sub-Band 2, (6925 - 6975 MHz / 7075 - 7125 MHz) 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
11 GHz						
AP2XG-11-HBT-B1	GC8607-30	ALFOPlus2XG 11 GHz, 300 Mbps full-duplex capacity, software upgradeable to 750 Mbps, High Band ODU, Sub-Band 1, (10715 - 10895 MHz / 11205 - 11385 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-11-LBT-B1	GC8606-30	ALFOPlus2XG 11 GHz, 300 Mbps full-duplex capacity, software upgradeable to 750 Mbps, Low Band ODU, Sub-Band 1, (10715 - 10895 MHz / 11205 - 11385 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-11-HBT-B2	GC8609-30	ALFOPlus2XG 11 GHz, 300 Mbps full-duplex capacity, software upgradeable to 750 Mbps, High Band ODU, Sub-Band 2, (10875 - 11055 MHz / 11365 - 11545 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-11-LBT-B2	GC8608-30	ALFOPlus2XG 11 GHz, 300 Mbps full-duplex capacity, software upgradeable to 750 Mbps, Low Band ODU, Sub-Band 2, (10875 - 11055 MHz / 11365 - 11545 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-11-HBT-B3	GC8611-30	ALFOPlus2XG 11 GHz, 300 Mbps full-duplex capacity, software upgradeable to 750 Mbps, High Band ODU, Sub-Band 3, (11035 - 11215 MHz / 11525 - 11705 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00

AP2XG-11-LBT-B3	GC8610-30	ALFOPlus2XG 11 GHz, 300 Mbps full-duplex capacity, software upgradeable to 750 Mbps, Low Band ODU, Sub-Band 3, (11035 - 11215 MHz / 11525 - 11705 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
13 GHz						
AP2XG-13-HBT-B1	GC8639-30	ALFOPlus2XG 13 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, High Band ODU, Sub-Band 1, (12700 - 12750 MHz / 12925 - 12975 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-13-LBT-B1	GC8638-30	ALFOPlus2XG 13 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, Low Band ODU, Sub-Band 1, (12700 - 12750 MHz / 12925 - 12975 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-13-HBT-B2	GC8641-30	ALFOPlus2XG 13 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, High Band ODU, Sub-Band 2, (12750 - 12800 MHz / 12975 - 13025 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-13-LBT-B2	GC8640-30	ALFOPlus2XG 13 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, Low Band ODU, Sub-Band 2, (12750 - 12800 MHz / 12975 - 13025 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-13-HBT-B3	GC8643-30	ALFOPlus2XG 13 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, High Band ODU, Sub-Band 3, (12800 - 12850 MHz / 13025 - 13075 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-13-LBT-B3	GC8642-30	ALFOPlus2XG 13 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, Low Band ODU, Sub-Band 3, (12800 - 12850 MHz / 13025 - 13075 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-13-HBT-B4	GC8645-30	ALFOPlus2XG 13 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, High Band ODU, Sub-Band 4, (12850 - 12925 MHz / 13075 - 13150 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-13-LBT-B4	GC8644-30	ALFOPlus2XG 13 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, Low Band ODU, Sub-Band 4, (12850 - 12925 MHz / 13075 - 13150 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
15 GHz						
AP2XG-15-HBT-B1	GC8673-30	ALFOPlus2XG 15 GHz, 100 Mbps full-duplex capacity, software upgradeable to 350 Mbps, High Band ODU, Sub-Band 1, (14500 - 14600 MHz / 14975 - 15075 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-15-LBT-B1	GC8672-30	ALFOPlus2XG 15 GHz, 100 Mbps full-duplex capacity, software upgradeable to 350 Mbps, Low Band ODU, Sub-Band 1, (14500 - 14600 MHz / 14975 - 15075 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-15-HBT-B2	GC8675-30	ALFOPlus2XG 15 GHz, 100 Mbps full-duplex capacity, software upgradeable to 350 Mbps, High Band ODU, Sub-Band 2, (14600 - 14870 MHz / 15075 - 15345 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-15-LBT-B2	GC8674-30	ALFOPlus2XG 15 GHz, 100 Mbps full-duplex capacity, software upgradeable to 350 Mbps, Low Band ODU, Sub-Band 2, (14600 - 14870 MHz / 15075 - 15345 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
18 GHz						
AP2XG-18-HBT-B1	GC8717-30	ALFOPlus2XG 18 GHz, 300 Mbps full-duplex capacity, software upgradeable to 750 Mbps, High Band ODU, Sub-Band 1, (17700 - 18140 MHz / 19260 - 19700 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-18-LBT-B1	GC8716-30	ALFOPlus2XG 18 GHz, 300 Mbps full-duplex capacity, software upgradeable to 750 Mbps, Low Band ODU, Sub-Band 1, (17700 - 18140 MHz / 19260 - 19700 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
23 GHz						
AP2XG-23-HBT-B1	GC8727-30	ALFOPlus2XG 23 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, High Band ODU, Sub-Band 1, (21200 - 21605.5 MHz / 22400 - 22805.5 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00

AP2XG-23-LBT-B1	GC8726-30	ALFOPlus2XG 23 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, Low Band ODU, Sub-Band 1, (21200 - 21605.5 MHz / 22400 - 22805.5 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-23-HBT-B2	GC8729-30	ALFOPlus2XG 23 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, High Band ODU, Sub-Band 2, (21600 - 22000 MHz / 22800 - 23200 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-23-LBT-B2	GC8728-30	ALFOPlus2XG 23 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, Low Band ODU, Sub-Band 2, (21600 - 22000 MHz / 22800 - 23200 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-23-HBT-B3	GC8731-30	ALFOPlus2XG 23 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, High Band ODU, Sub-Band 3, (21997.5 - 22400 MHz / 23197.5 - 23600 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2XG-23-LBT-B3	GC8730-30	ALFOPlus2XG 23 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, Low Band ODU, Sub-Band 3, (21997.5 - 22400 MHz / 23197.5 - 23600 MHz), 1+0 software upgradeable to 2+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, No Branching Unit, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP2 Branching Units						
AP2-6-BU-DPW	V60773	6 GHz - Dual Port Branching Unit - ACAP/XPIC configuration for Separate Antenna Mounting - Dual Port Dual Pole WG PDR70	Now	Microwave	Each	\$ 1,500.00
AP2-6-BU-OMT	V60772	6 GHz - OMT Branching Unit - XPIC configuration for Direct Antenna Mounting - Single Circular Port	Now	Microwave	Each	\$ 1,500.00
AP2-6L-BU-HYB	V60785	6L GHz - Coupler (Hybrid) Branching Unit - ACCP configuration - Single Port Single Pole WG PDR70	Now	Microwave	Each	\$ 1,500.00
AP2-6U-BU-HYB	V60775	6U/7 GHz - Coupler (Hybrid) Branching Unit - ACCP configuration - Single Port Single Pole WG PDR70	Now	Microwave	Each	\$ 1,500.00
AP2-11-BU-HYB	V60494	11 GHz - Coupler (Hybrid) Branching Unit - ACCP configuration - Single Port Single Pole WG PBR100	Now	Microwave	Each	\$ 1,500.00
AP2-11-BU-DPW	V60495	11 GHz - Dual Port Branching Unit - ACAP/XPIC configuration for Separate Antenna Mounting - Dual Port Dual Pole WG PBR100	Now	Microwave	Each	\$ 1,500.00
AP2-11-BU-OMT	V60493	11 GHz - OMT Branching Unit - XPIC configuration for Direct Antenna Mounting - Single Circular Port	Now	Microwave	Each	\$ 1,500.00
AP2-13-BU-HYB	V60550	13 GHz - Coupler (Hybrid) Branching Unit - ACCP configuration - Single Port Single Pole WG UBR120	Now	Microwave	Each	\$ 1,500.00
AP2-13-BU-DPW	V60560	13 GHz - Dual Port Branching Unit - ACAP/XPIC configuration for Separate Antenna Mounting - Dual Port Dual Pole WG UBR120	Now	Microwave	Each	\$ 1,500.00
AP2-13-BU-OMT	V60553	13 GHz - OMT Branching Unit - XPIC configuration for Direct Antenna Mounting - Single Circular Port	Now	Microwave	Each	\$ 1,500.00
AP2-15-BU-HYB	V60551	15 GHz - Coupler (Hybrid) Branching Unit - ACCP configuration - Single Port Single Pole WG UBR140	Now	Microwave	Each	\$ 1,500.00
AP2-15-BU-DPW	V60561	15 GHz - Dual Port Branching Unit - ACAP/XPIC configuration for Separate Antenna Mounting - Dual Port Dual Pole WG UBR140	Now	Microwave	Each	\$ 1,500.00
AP2-15-BU-OMT	V60554	15 GHz - OMT Branching Unit - XPIC configuration for Direct Antenna Mounting - Single Circular Port	Now	Microwave	Each	\$ 1,500.00
AP2-18-BU-HYB	V60500	18 GHz - Coupler (Hybrid) Branching Unit - ACCP configuration - Single Port Single Pole WG PBR220	Now	Microwave	Each	\$ 1,500.00
AP2-18-BU-DPW	V60499	18 GHz - Dual Port Branching Unit - ACAP/XPIC configuration for Separate Antenna Mounting - Dual Port Dual Pole WG PBR220	Now	Microwave	Each	\$ 1,500.00
AP2-18-BU-OMT	V60501	18 GHz - OMT Branching Unit - XPIC configuration for Direct Antenna Mounting - Single Circular Port	Now	Microwave	Each	\$ 1,500.00
AP2-23-BU-HYB	V60503	23 GHz - Coupler (Hybrid) Branching Unit - ACCP configuration - Single Port Single Pole PBR220	Now	Microwave	Each	\$ 1,500.00
AP2-23-BU-DPW	V60499	23 GHz - Dual Port Branching Unit - ACAP/XPIC configuration for Separate Antenna Mounting - Dual Port Dual Pole WG PBR220	Now	Microwave	Each	\$ 1,500.00
AP2-23-BU-OMT	V60504	23 GHz - OMT Branching Unit - XPIC configuration for Direct Antenna Mounting - Single Circular Port	Now	Microwave	Each	\$ 1,500.00
ODU Couplers for 4+0 Applications						
CPLR-AP2-6LGHZ-4+0	AP2CPLR6LG40	Coupler, 6LGHZ, AP2, 4+0/XPIC. Requires 2x Z19297T Flex Twist Waveguide and 1x -WGDP Antenna per end.	Now	Accessories	Each	\$ 1,200.00
CPLR-AP2-6UGHZ-4+0	AP2CPLR6UG40	Coupler, 6UGHZ, AP2, 4+0/XPIC. Requires 2x Z19297T Flex Twist Waveguide and 1x -WGDP Antenna per end.	Now	Accessories	Each	\$ 1,200.00
CPLR-AP2-11GHZ-4+0	AP2CPLR11G40	Coupler, 11GHZ, AP2, 4+0/XPIC. Requires 2x Z18686T Flex Twist Waveguide and 1x -WGDP Antenna per end.	Now	Accessories	Each	\$ 2,100.00
CPLR-AP2-13GHZ-4+0	AP2CPLR13G40	Coupler, 13GHZ, AP2, 4+0/XPIC. Requires 2x Z17280T Flex Twist Waveguide and 1x -WGDP Antenna per end.	Now	Accessories	Each	\$ 2,100.00

CPLR-AP2-15GHZ-4+0	AP2CPLR15G40	Coupler, 15GHZ, AP2, 4+0/XPIC. Requires 2x Z17280T Flex Twist Waveguide and 1x -WGDP Antenna per end.	Now	Accessories	Each	\$ 2,100.00
CPLR-AP2-18GHZ-4+0	AP2CPLR18G40	Coupler, 18 & 23GHZ, AP2, 4+0/XPIC. Requires 2x Z13967T Flex Twist Waveguide and 1x -WGDP Antenna per end.	Now	Accessories	Each	\$ 2,100.00
CPLR-AP2-23GHZ-4+0	AP2CPLR23G40	Coupler, 18 & 23GHZ, AP2, 4+0/XPIC. Requires 2x Z13967T Flex Twist Waveguide and 1x -WGDP Antenna per end.	Now	Accessories	Each	\$ 2,100.00
SIAE-V60337	V60337	AP2 Coupler Load, Cover Plate, 6 - 13 GHz Couplers, Two required per coupler.	Now	Accessories	Each	\$ 80.00
SIAE-V60338	V60338	AP2 Coupler Load, Cover Plate, 15 - 43 GHz Couplers. Two required per coupler.	Now	Accessories	Each	\$ 80.00
ALFOPlus2 Software License Capacity Upgrades						
UPG-AP2-300-1500	SWK500T1500M	ALFOPlus2 SW License from 300 to 750 Mbps (Single Carrier) or 1500 Mbps capacity (Dual Carrier)	Now	S/W Upgrades	Terminal	\$ 950.00
UPG-AP2-10T20	SWK10T20	ALFOPlus2 SW License for Dual Carrier operation	Now	S/W Upgrades	Terminal	\$ 1,250.00
UPG-AP2-ACM	SWKACM	ALFOPlus2 SW License to enable Adaptive Code Modulation	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-AP2-OAM	SWKOAM	ALFOPlus2 SW License to enable OAM (CFM)	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-AP2-SSM	SWKSSM	ALFOPlus2 SW License to enable SyncE SSM	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-AP2-PHC	SWKPHC	ALFOPlus2 SW License to enable Packet Header Compression	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-AP2-RMON	SWKRMON	ALFOPlus2 SW License to enable RMON (Remote Ethernet Monitoring)	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-AP2-SECP	SWKSECP	ALFOPlus2 SW License to enable Security Package (HTTPS, SFTP, SSH, SNMPv3)	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-AP2-AES	SWKAES	ALFOPlus2 SW License to enable 256-AES Encryption. Also requires UPG-AP2-SECP	Now	S/W Upgrades	Terminal	\$ 2,000.00

ALFOPlus1 (6 - 23 GHz)

SF Product Name	SIAE Product Code	Description	Availability	Product Family	Unit	LIST Price (\$)
ALFOPlus1 6 - 23 GHz Microwave Radio Link						
L6 GHz						
AP1-6L-LNK-B1	LNKAO106LGSB1	ALFOPlus1 L6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 533 Mbps, LINK, Sub-Band 1, (5900 - 5990 MHz / 6152 - 6242 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Now	Microwave	Link	\$ 10,950.00
AP1-6L-LNK-B2	LNKAO106LGSB2	ALFOPlus1 L6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 533 Mbps, LINK, Sub-Band 2, (5959 - 6049 MHz / 6211 - 6301 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Now	Microwave	Link	\$ 10,950.00
AP1-6L-LNK-B3	LNKAO106LGSB3	ALFOPlus1 L6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 533 Mbps, LINK, Sub-Band 3, (6019 - 6109 MHz / 6271 - 6361 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Now	Microwave	Link	\$ 10,950.00
AP1-6L-LNK-B4	LNKAO106LGSB4	ALFOPlus1 L6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 533 Mbps, LINK, Sub-Band 4, (6078 - 6168 MHz / 6330 - 6420 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Now	Microwave	Link	\$ 10,950.00
U6 GHz						
AP1-6U-LNK-B1	LNKAO106UGSB1	ALFOPlus1 U6 GHz, 100 Mbps full-duplex capacity, software upgradeable to 255 Mbps, LINK, Sub-Band 1, (6540 - 6610 MHz / 6700 - 6770 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Now	Microwave	Link	\$ 10,950.00
AP1-6U-LNK-B2	LNKAO106UGSB2	ALFOPlus1 U6 GHz, 100 Mbps full-duplex capacity, software upgradeable to 255 Mbps, LINK, Sub-Band 2, (6605 - 6675 MHz / 6765 - 6835 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Now	Microwave	Link	\$ 10,950.00
AP1-6U-LNK-B3	LNKAO106UGSB3	ALFOPlus1 U6 GHz, 100 Mbps full-duplex capacity, software upgradeable to 255 Mbps, LINK, Sub-Band 3, (6635 - 6705 MHz / 6795 - 6865 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Now	Microwave	Link	\$ 10,950.00
7 GHz						
AP1-7-LNK-B1	LNKAO107AGSB1	ALFOPlus1 7 GHz, 100 Mbps full-duplex capacity, software upgradeable to 250 Mbps, LINK, Sub-Band 1, (6875 - 6925 MHz / 7025 - 7075 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Link	\$ 10,950.00
AP1-7-LNK-B2	LNKAO107AGSB2	ALFOPlus1 7 GHz, 100 Mbps full-duplex capacity, software upgradeable to 250 Mbps, LINK, Sub-Band 2, (6925 - 6975 MHz / 7075 - 7125 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Link	\$ 10,950.00
11 GHz						
AP1-11-LNK-B1	LNKAO111GSB1	ALFOPlus1 11 GHz, 300 Mbps full-duplex capacity, software upgradeable to 750 Mbps, LINK, Sub-Band 1, (10715 - 10895 MHz / 11205 - 11385 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Link	\$ 10,950.00

API-11-LNK-B2	LNKAO111GSB2	ALFOPlus1 11 GHz, 300 Mbps full-duplex capacity, software upgradeable to 1500 Mbps, LINK, Sub-Band 2, (10875 - 11055 MHz / 11365 - 11545 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Link	\$ 10,950.00
API-11-LNK-B3	LNKAO111GSB3	ALFOPlus1 11 GHz, 300 Mbps full-duplex capacity, software upgradeable to 750 Mbps, LINK, Sub-Band 3, (11035 - 11215 MHz / 11525 - 11705 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Link	\$ 10,950.00
13 GHz						
API-13-LNK-B1	LNKAO113GSB1	ALFOPlus1 13 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, LINK, Sub-Band 1, (12700 - 12750 MHz / 12925 - 12975 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Link	\$ 10,950.00
API-13-LNK-B2	LNKAO113GSB2	ALFOPlus1 13 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, LINK, Sub-Band 2, (12750 - 12800 MHz / 12975 - 13025 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Link	\$ 10,950.00
API-13-LNK-B3	LNKAO113GSB3	ALFOPlus1 13 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, LINK, Sub-Band 3, (12800 - 12850 MHz / 13025 - 13075 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Link	\$ 10,950.00
API-13-LNK-B4	LNKAO113GSB4	ALFOPlus1 13 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, LINK, Sub-Band 4, (12850 - 12925 MHz / 13075 - 13150 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Link	\$ 10,950.00
15 GHz						
API-15-LNK-B1	LNKAO115GSB1	ALFOPlus1 15 GHz, 100 Mbps full-duplex capacity, software upgradeable to 350 Mbps, LINK, Sub-Band 1, (14500 - 14600 MHz / 14975 - 15075 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Link	\$ 10,950.00
API-15-LNK-B2	LNKAO115GSB2	ALFOPlus1 15 GHz, 300 Mbps full-duplex capacity, software upgradeable to 350 Mbps, LINK, Sub-Band 2, (14600 - 14870 MHz / 15075 - 15345 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Link	\$ 10,950.00
18 GHz						
API-18-LNK-B1	LNKAO118GSB1	ALFOPlus1 18 GHz, 300 Mbps full-duplex capacity, software upgradeable to 750 Mbps, LINK, Sub-Band 1, (17700 - 18140 MHz / 19260 - 19700 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Link	\$ 10,950.00
23 GHz						
API-23-LNK-B1	LNKAO123GSB1	ALFOPlus1 23 GHz, 300 Mbps full-duplex capacity, software upgradeable to 440 Mbps, LINK, Sub-Band 1, (21200 - 21605.5 MHz / 22400 - 22805.5 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Link	\$ 10,950.00
API-23-LNK-B2	LNKAO123GSB2	ALFOPlus1 23 GHz, 300 Mbps full-duplex capacity, software upgradeable to 440 Mbps, LINK, Sub-Band 2, (21600 - 22000 MHz / 22800 - 23200 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Link	\$ 10,950.00
API-23-LNK-B3	LNKAO123GSB3	ALFOPlus1 23 GHz, 300 Mbps full-duplex capacity, software upgradeable to 440 Mbps, LINK, Sub-Band 3, (21997.5 - 22400 MHz / 23197.5 - 23600 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 1x 10GbE + 1x 1GbE Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Link	\$ 10,950.00
ALFOPlus1 6 - 23 GHz Microwave Radio Terminal						
L6 GHz						
API-6L-HBT-B1	GD8501-30	ALFOPlus1 L6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 533 Mbps, High Band ODU, Sub-Band 1, (5900 - 5990 MHz / 6152 - 6242 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Now	Microwave	Terminal	\$ 9,820.00
API-6L-LBT-B1	GD8500-30	ALFOPlus1 L6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 533 Mbps, Low Band ODU, Sub-Band 1, (5900 - 5990 MHz / 6152 - 6242 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Now	Microwave	Terminal	\$ 9,820.00
API-6L-HBT-B2	GD8503-30	ALFOPlus1 L6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 533 Mbps, High Band ODU, Sub-Band 2, (5959 - 6049 MHz / 6211 - 6301 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Now	Microwave	Terminal	\$ 9,820.00
API-6L-LBT-B2	GD8502-30	ALFOPlus1 L6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 533 Mbps, Low Band ODU, Sub-Band 2, (5959 - 6049 MHz / 6211 - 6301 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Now	Microwave	Terminal	\$ 9,820.00
API-6L-HBT-B3	GD8505-30	ALFOPlus1 L6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 533 Mbps, High Band ODU, Sub-Band 3, (6019 - 6109 MHz / 6271 - 6361 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Now	Microwave	Terminal	\$ 9,820.00
API-6L-LBT-B3	GD8504-30	ALFOPlus1 L6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 533 Mbps, Low Band ODU, Sub-Band 3, (6019 - 6109 MHz / 6271 - 6361 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Now	Microwave	Terminal	\$ 9,820.00
API-6L-HBT-B4	GD8507-30	ALFOPlus1 L6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 533 Mbps, High Band ODU, Sub-Band 4, (6078 - 6168 MHz / 6330 - 6420 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Now	Microwave	Terminal	\$ 9,820.00
API-6L-LBT-B4	GD8506-30	ALFOPlus1 L6 GHz, 300 Mbps full-duplex capacity, software upgradeable to 533 Mbps, Low Band ODU, Sub-Band 4, (6078 - 6168 MHz / 6330 - 6420 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Now	Microwave	Terminal	\$ 9,820.00
U6 GHz						

AP1-6U-HBT-B1	GD8421-30	ALFOPlus1 U6 GHz, 100 Mbps full-duplex capacity, software upgradeable to 255 Mbps, High Band ODU, Sub-Band 1, (6540 - 6610 MHz / 6700 - 6770 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Now	Microwave	Terminal	\$ 9,820.00
AP1-6U-LBT-B1	GD8420-30	ALFOPlus1 U6 GHz, 100 Mbps full-duplex capacity, software upgradeable to 255 Mbps, Low Band ODU, Sub-Band 1, (6540 - 6610 MHz / 6700 - 6770 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Now	Microwave	Terminal	\$ 9,820.00
AP1-6U-HBT-B2	GD8423-30	ALFOPlus1 U6 GHz, 100 Mbps full-duplex capacity, software upgradeable to 255 Mbps, High Band ODU, Sub-Band 2, (6605 - 6675 MHz / 6765 - 6835 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Now	Microwave	Terminal	\$ 9,820.00
AP1-6U-LBT-B2	GD8422-30	ALFOPlus1 U6 GHz, 100 Mbps full-duplex capacity, software upgradeable to 255 Mbps, Low Band ODU, Sub-Band 2, (6605 - 6675 MHz / 6765 - 6835 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Now	Microwave	Terminal	\$ 9,820.00
AP1-6U-HBT-B3	GD8425-30	ALFOPlus1 U6 GHz, 100 Mbps full-duplex capacity, software upgradeable to 255 Mbps, High Band ODU, Sub-Band 3, (6635 - 6705 MHz / 6795 - 6865 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Now	Microwave	Terminal	\$ 9,820.00
AP1-6U-LBT-B3	GD8424-30	ALFOPlus1 U6 GHz, 100 Mbps full-duplex capacity, software upgradeable to 255 Mbps, Low Band ODU, Sub-Band 3, (6635 - 6705 MHz / 6795 - 6865 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Now	Microwave	Terminal	\$ 9,820.00
7 GHz						
AP1-7-HBT-B1	GD8427-30	ALFOPlus1 7 GHz, 100 Mbps full-duplex capacity, software upgradeable to 250 Mbps, High Band ODU, Sub-Band 1, (6875 - 6925 MHz / 7025 - 7075 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP1-7-LBT-B1	GD8426-30	ALFOPlus1 7 GHz, 100 Mbps full-duplex capacity, software upgradeable to 250 Mbps, Low Band ODU, Sub-Band 1, (6875 - 6925 MHz / 7025 - 7075 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP1-7-HBT-B2	GD8429-30	ALFOPlus1 7 GHz, 100 Mbps full-duplex capacity, software upgradeable to 250 Mbps, High Band ODU, Sub-Band 2, (6925 - 6975 MHz / 7075 - 7125 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP1-7-LBT-B2	GD8428-30	ALFOPlus1 7 GHz, 100 Mbps full-duplex capacity, software upgradeable to 250 Mbps, Low Band ODU, Sub-Band 2, (6925 - 6975 MHz / 7075 - 7125 MHz) 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
11 GHz						
AP1-11-HBT-B1	GD8607-30	ALFOPlus1 11 GHz, 300 Mbps full-duplex capacity, software upgradeable to 750 Mbps, High Band ODU, Sub-Band 1, (10715 - 10895 MHz / 11205 - 11385 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP1-11-LBT-B1	GD8606-30	ALFOPlus1 11 GHz, 300 Mbps full-duplex capacity, software upgradeable to 750 Mbps, Low Band ODU, Sub-Band 1, (10715 - 10895 MHz / 11205 - 11385 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP1-11-HBT-B2	GD8609-30	ALFOPlus1 11 GHz, 300 Mbps full-duplex capacity, software upgradeable to 750 Mbps, High Band ODU, Sub-Band 2, (10875 - 11055 MHz / 11365 - 11545 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP1-11-LBT-B2	GD8608-30	ALFOPlus1 11 GHz, 300 Mbps full-duplex capacity, software upgradeable to 750 Mbps, Low Band ODU, Sub-Band 2, (10875 - 11055 MHz / 11365 - 11545 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP1-11-HBT-B3	GD8611-30	ALFOPlus1 11 GHz, 300 Mbps full-duplex capacity, software upgradeable to 750 Mbps, High Band ODU, Sub-Band 3, (11035 - 11215 MHz / 11525 - 11705 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP1-11-LBT-B3	GD8610-30	ALFOPlus1 11 GHz, 300 Mbps full-duplex capacity, software upgradeable to 750 Mbps, Low Band ODU, Sub-Band 3, (11035 - 11215 MHz / 11525 - 11705 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2x Optical GbE ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
13 GHz						
AP1-13-HBT-B1	GD8639-30	ALFOPlus1 13 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, High Band ODU, Sub-Band 1, (12700 - 12750 MHz / 12925 - 12975 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP1-13-LBT-B1	GD8638-30	ALFOPlus1 13 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, Low Band ODU, Sub-Band 1, (12700 - 12750 MHz / 12925 - 12975 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP1-13-HBT-B2	GD8641-30	ALFOPlus1 13 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, High Band ODU, Sub-Band 2, (12750 - 12800 MHz / 12975 - 13025 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP1-13-LBT-B2	GD8640-30	ALFOPlus1 13 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, Low Band ODU, Sub-Band 2, (12750 - 12800 MHz / 12975 - 13025 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP1-13-HBT-B3	GD8643-30	ALFOPlus1 13 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, High Band ODU, Sub-Band 3, (12800 - 12850 MHz / 13025 - 13075 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
AP1-13-LBT-B3	GD8642-30	ALFOPlus1 13 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, Low Band ODU, Sub-Band 3, (12800 - 12850 MHz / 13025 - 13075 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00

API-13-HBT-B4	GD8645-30	ALFOPlus1 13 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, High Band ODU, Sub-Band 4, (12850 - 12925 MHz / 13075 - 13150 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
API-13-LBT-B4	GD8644-30	ALFOPlus1 13 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, Low Band ODU, Sub-Band 4, (12850 - 12925 MHz / 13075 - 13150 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
15 GHz						
API-15-HBT-B1	GD8673-30	ALFOPlus1 15 GHz, 100 Mbps full-duplex capacity, software upgradeable to 350 Mbps, High Band ODU, Sub-Band 1, (14500 - 14600 MHz / 14975 - 15075 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
API-15-LBT-B1	GD8672-30	ALFOPlus1 15 GHz, 100 Mbps full-duplex capacity, software upgradeable to 350 Mbps, Low Band ODU, Sub-Band 1, (14500 - 14600 MHz / 14975 - 15075 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
API-15-HBT-B2	GD8675-30	ALFOPlus1 15 GHz, 100 Mbps full-duplex capacity, software upgradeable to 350 Mbps, High Band ODU, Sub-Band 2, (14600 - 14870 MHz / 15075 - 15345 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
API-15-LBT-B2	GD8674-30	ALFOPlus1 15 GHz, 100 Mbps full-duplex capacity, software upgradeable to 350 Mbps, Low Band ODU, Sub-Band 2, (14600 - 14870 MHz / 15075 - 15345 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
18 GHz						
API-18-HBT-B1	GD8717-30	ALFOPlus1 18 GHz, 300 Mbps full-duplex capacity, software upgradeable to 750 Mbps, High Band ODU, Sub-Band 1, (17700 - 18140 MHz / 19260 - 19700 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
API-18-LBT-B1	GD8716-30	ALFOPlus1 18 GHz, 300 Mbps full-duplex capacity, software upgradeable to 750 Mbps, Low Band ODU, Sub-Band 1, (17700 - 18140 MHz / 19260 - 19700 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
23 GHz						
API-23-HBT-B1	GD8727-30	ALFOPlus1 23 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, High Band ODU, Sub-Band 1, (21200 - 21605.5 MHz / 22400 - 22805.5 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
API-23-LBT-B1	GD8726-30	ALFOPlus1 23 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, Low Band ODU, Sub-Band 1, (21200 - 21605.5 MHz / 22400 - 22805.5 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
API-23-HBT-B2	GD8729-30	ALFOPlus1 23 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, High Band ODU, Sub-Band 2, (21600 - 22000 MHz / 22800 - 23200 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
API-23-LBT-B2	GD8728-30	ALFOPlus1 23 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, Low Band ODU, Sub-Band 2, (21600 - 22000 MHz / 22800 - 23200 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
API-23-HBT-B3	GD8731-30	ALFOPlus1 23 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, High Band ODU, Sub-Band 3, (21997.5 - 22400 MHz / 23197.5 - 23600 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
API-23-LBT-B3	GD8730-30	ALFOPlus1 23 GHz, 300 Mbps full-duplex capacity, software upgradeable to 450 Mbps, Low Band ODU, Sub-Band 3, (21997.5 - 22400 MHz / 23197.5 - 23600 MHz), 1+0, QPSK to 4096QAM, 2x Electrical GbE ports + 2 x Optical GbE Ports, 1 year warranty	Q1 2020	Microwave	Terminal	\$ 9,820.00
ALFOPlus1 Software License Capacity Upgrades						
UPG-API-300-500	SWK500T1500M	ALFOPlus1 SW License from 300 to 500 Mbps	Now	S/W Upgrades	Terminal	\$ 950.00
UPG-API-ACM	SWKACM	ALFOPlus1 SW License to enable Adaptive Code Modulation	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-API-OAM	SWKOAM	ALFOPlus1 SW License to enable OAM (CFM)	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-API-SSM	SWKSSM	ALFOPlus1 SW License to enable SyncE SSM	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-API-PHC	SWKPHC	ALFOPlus1 SW License to enable Packet Header Compression	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-API-RMON	SWKRMON	ALFOPlus1 SW License to enable RMON (Remote Ethernet Monitoring)	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-API-SECP	SWKSECP	ALFOPlus1 SW License to enable Security Package (HTTPS, SFTP, SSH, SNMPv3)	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-API-AES	SWKAES	ALFOPlus1 SW License to enable 256-AES Encryption, Also requires UPG-API-SECP	Now	S/W Upgrades	Terminal	\$ 2,000.00

ALFOPlus (11 - 24 GHz)

SF Product Name	SIAE Product Code	Description	Availability	Product Family	Unit	LIST Price (\$)
ALFO Plus 11 - 23 GHz Microwave Radio Link						

AP11-2E-LNK-B1	LNKAO1011GSB1EL	ALFO Plus 11 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, LINK, Sub-Band 1, (10715 - 10895 MHz / 11205 - 11385 MHz) 1+0, BPSK to 1024QAM, 2x Electrical GbE ports, 1 year warranty	Now	Microwave	Link	\$ 6,950.00
AP11-2E-LNK-B2	LNKAO1011GSB2EL	ALFO Plus 11 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, LINK, Sub-Band 2, (10875 - 11055 MHz / 11365 - 11545 MHz) 1+0, BPSK to 1024QAM, 2x Electrical GbE ports, 1 year warranty	Now	Microwave	Link	\$ 6,950.00
AP11-2E-LNK-B3	LNKAO1011GSB3EL	ALFO Plus 11 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, LINK, Sub-Band 3, (11035 - 11215 MHz / 11525 - 11705 MHz) 1+0, BPSK to 1024QAM, 2x Electrical GbE ports, 1 year warranty	Now	Microwave	Link	\$ 6,950.00
AP11-EO-LNK-B1	LNKAO1011GSB1OP	ALFO Plus 11 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, LINK, Sub-Band 1, (10715 - 10895 MHz / 11205 - 11385 MHz) 1+0, BPSK to 1024QAM, 1x Electrical GbE port + 1x Optical GbE port, 1 year warranty	Special Order	Microwave	Link	\$ 6,950.00
AP11-EO-LNK-B2	LNKAO1011GSB2OP	ALFO Plus 11 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, LINK, Sub-Band 2, (10875 - 11055 MHz / 11365 - 11545 MHz) 1+0, BPSK to 1024QAM, 1x Electrical GbE port + 1x Optical GbE port, 1 year warranty	Special Order	Microwave	Link	\$ 6,950.00
AP11-EO-LNK-B3	LNKAO1011GSB3OP	ALFO Plus 11 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, LINK, Sub-Band 3, (11035 - 11215 MHz / 11525 - 11705 MHz) 1+0, BPSK to 1024QAM, 1x Electrical GbE port + 1x Optical GbE port, 1 year warranty	Special Order	Microwave	Link	\$ 6,950.00
AP18-2E-LNK-B1	LNKAO1018GSB1EL	ALFO Plus 18 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, LINK, Sub-Band 1, (17700 - 18140 MHz / 19260 - 19700 MHz) 1+0, BPSK to 1024QAM, 2x Electrical GbE ports, 1 year warranty	Now	Microwave	Link	\$ 6,950.00
AP18-EO-LNK-B1	LNKAO1018GSB1OP	ALFO Plus 18 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, LINK, Sub-Band 1, (17700 - 18140 MHz / 19260 - 19700 MHz) 1+0, BPSK to 1024QAM, 1x Electrical GbE port + 1x Optical GbE port, 1 year warranty	Special Order	Microwave	Link	\$ 6,950.00
AP23-2E-LNK-B1	LNKAO1023GSB1EL	ALFO Plus 23 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, LINK, Sub-Band 1, (21200 - 21605.5 MHz / 22400 - 22805.5 MHz) 1+0, BPSK to 1024QAM, 2x Electrical GbE ports, 1 year warranty	Now	Microwave	Link	\$ 6,950.00
AP23-2E-LNK-B2	LNKAO1023GSB2EL	ALFO Plus 23 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, LINK, Sub-Band 2, (21600 - 22000 MHz / 22800 - 23200 MHz) 1+0, BPSK to 1024QAM, 2x Electrical GbE ports, 1 year warranty	Now	Microwave	Link	\$ 6,950.00
AP23-2E-LNK-B3	LNKAO1023GSB3EL	ALFO Plus 23 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, LINK, Sub-Band 3, (21997.5 - 22400 MHz / 23197.5 - 23600 MHz) 1+0, BPSK to 1024QAM, 2x Electrical GbE ports, 1 year warranty	Now	Microwave	Link	\$ 6,950.00
AP23-EO-LNK-B1	LNKAO1023GSB1OP	ALFO Plus 23 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, LINK, Sub-Band 1, (21200 - 21605.5 MHz / 22400 - 22805.5 MHz) 1+0, BPSK to 1024QAM, 1x Electrical GbE port + 1x Optical GbE port, 1 year warranty	Special Order	Microwave	Link	\$ 6,950.00
AP23-EO-LNK-B2	LNKAO1023GSB2OP	ALFO Plus 23 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, LINK, Sub-Band 2, (21600 - 22000 MHz / 22800 - 23200 MHz) 1+0, BPSK to 1024QAM, 1x Electrical GbE port + 1x Optical GbE port, 1 year warranty	Special Order	Microwave	Link	\$ 6,950.00
AP23-EO-LNK-B3	LNKAO1023GSB3OP	ALFO Plus 23 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, LINK, Sub-Band 3, (21997.5 - 22400 MHz / 23197.5 - 23600 MHz) 1+0, BPSK to 1024QAM, 1x Electrical GbE port + 1x Optical GbE port, 1 year warranty	Special Order	Microwave	Link	\$ 6,950.00
AP24-EO-LNK-B1	LNKAO1024GSB1OP	ALFO Plus 24 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, LINK, Sub-Band 1, 1+0, BPSK to 1024QAM, 1x Electrical GbE port + 1x Optical GbE port, 1 year warranty	Special Order	Microwave	Link	\$ 5,950.00
AP24-2E-LNK-B1	LNKAO1024GSB1EL	ALFO Plus 24 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, LINK, Sub-Band 1, 1+0, BPSK to 1024QAM, 2x Electrical GbE ports, 1 year warranty	Now	Microwave	Link	\$ 5,950.00
ALFO Plus 11 - 23 GHz Microwave Radio Terminal						
AP11-2E-HBT-B1	GB8607	ALFO Plus 11 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, High Band ODU, Sub-Band 1, (10715 - 10895 MHz / 11205 - 11385 MHz) 1+0, BPSK to 1024QAM, 2x Electrical GbE ports, 1 year warranty	Now	Microwave	Terminal	\$ 4,170.00
AP11-2E-LBT-B1	GB8606	ALFO Plus 11 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, Low Band ODU, Sub-Band 1, (10715 - 10895 MHz / 11205 - 11385 MHz) 1+0, BPSK to 1024QAM, 2x Electrical GbE ports, 1 year warranty	Now	Microwave	Terminal	\$ 4,170.00
AP11-2E-HBT-B2	GB8609	ALFO Plus 11 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, High Band ODU, Sub-Band 2, (10875 - 11055 MHz / 11365 - 11545 MHz) 1+0, BPSK to 1024QAM, 2x Electrical GbE ports, 1 year warranty	Now	Microwave	Terminal	\$ 4,170.00
AP11-2E-LBT-B2	GB8608	ALFO Plus 11 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, Low Band ODU, Sub-Band 2, (10875 - 11055 MHz / 11365 - 11545 MHz) 1+0, BPSK to 1024QAM, 2x Electrical GbE ports, 1 year warranty	Now	Microwave	Terminal	\$ 4,170.00
AP11-2E-HBT-B3	GB8611	ALFO Plus 11 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, High Band ODU, Sub-Band 3, (11035 - 11215 MHz / 11525 - 11705 MHz) 1+0, BPSK to 1024QAM, 2x Electrical GbE ports, 1 year warranty	Now	Microwave	Terminal	\$ 4,170.00
AP11-2E-LBT-B3	GB8610	ALFO Plus 11 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, Low Band ODU, Sub-Band 3, (11035 - 11215 MHz / 11525 - 11705 MHz) 1+0, BPSK to 1024QAM, 2x Electrical GbE ports, 1 year warranty	Now	Microwave	Terminal	\$ 4,170.00
AP11-EO-HBT-B1	GB6607	ALFO Plus 11 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, High Band ODU, Sub-Band 1, (10715 - 10895 MHz / 11205 - 11385 MHz) 1+0, BPSK to 1024QAM, 1x Electrical GbE port + 1x Optical GbE port, 1 year warranty	Special Order	Microwave	Terminal	\$ 4,170.00

AP11-EO-LBT-B1	GB6606	ALFO Plus 11 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, Low Band ODU, Sub-Band 1, (10715 - 10895 MHz / 11205 - 11385 MHz) 1+0, BPSK to 1024QAM, 1x Electrical GbE port + 1x Optical GbE port, 1 year warranty	Special Order	Microwave	Terminal	\$ 4,170.00
AP11-EO-HBT-B2	GB6609	ALFO Plus 11 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, High Band ODU, Sub-Band 2, (10875 - 11055 MHz / 11365 - 11545 MHz) 1+0, BPSK to 1024QAM, 1x Electrical GbE port + 1x Optical GbE port, 1 year warranty	Special Order	Microwave	Terminal	\$ 4,170.00
AP11-EO-LBT-B2	GB6608	ALFO Plus 11 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, Low Band ODU, Sub-Band 2, (10875 - 11055 MHz / 11365 - 11545 MHz) 1+0, BPSK to 1024QAM, 1x Electrical GbE port + 1x Optical GbE port, 1 year warranty	Special Order	Microwave	Terminal	\$ 4,170.00
AP11-EO-HBT-B3	GB6611	ALFO Plus 11 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, High Band ODU, Sub-Band 3, (11035 - 11215 MHz / 11525 - 11705 MHz) 1+0, BPSK to 1024QAM, 1x Electrical GbE port + 1x Optical GbE port, 1 year warranty	Special Order	Microwave	Terminal	\$ 4,170.00
AP11-EO-LBT-B3	GB6610	ALFO Plus 11 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, Low Band ODU, Sub-Band 3, (11035 - 11215 MHz / 11525 - 11705 MHz) 1+0, BPSK to 1024QAM, 1x Electrical GbE port + 1x Optical GbE port, 1 year warranty	Special Order	Microwave	Terminal	\$ 4,170.00
AP18-2E-HBT-B1	GB9717	ALFO Plus 18 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, High Band ODU, Sub-Band 1, (17700 - 18140 MHz / 19260 - 19700 MHz) 1+0, BPSK to 1024QAM, 2x Electrical GbE ports, 1 year warranty	Now	Microwave	Terminal	\$ 4,170.00
AP18-2E-LBT-B1	GB9716	ALFO Plus 18 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, Low Band ODU, Sub-Band 1, (17700 - 18140 MHz / 19260 - 19700 MHz) 1+0, BPSK to 1024QAM, 2x Electrical GbE ports, 1 year warranty	Now	Microwave	Terminal	\$ 4,170.00
AP18-EO-HBT-B1	GB7717	ALFO Plus 18 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, High Band ODU, Sub-Band 1, (17700 - 18140 MHz / 19260 - 19700 MHz) 1+0, BPSK to 1024QAM, 1x Electrical GbE port + 1x Optical GbE port, 1 year warranty	Special Order	Microwave	Terminal	\$ 4,170.00
AP18-EO-LBT-B1	GB7716	ALFO Plus 18 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, Low Band ODU, Sub-Band 1, (17700 - 18140 MHz / 19260 - 19700 MHz) 1+0, BPSK to 1024QAM, 1x Electrical GbE port + 1x Optical GbE port, 1 year warranty	Special Order	Microwave	Terminal	\$ 4,170.00
AP23-2E-HBT-B1	GB9727	ALFO Plus 23 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, High Band ODU, Sub-Band 1, (21200 - 21605.5 MHz / 22400 - 22805.5 MHz) 1+0, BPSK to 1024QAM, 2x Electrical GbE ports, 1 year warranty	Now	Microwave	Terminal	\$ 4,170.00
AP23-2E-LBT-B1	GB9726	ALFO Plus 23 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, Low Band ODU, Sub-Band 1, (21200 - 21605.5 MHz / 22400 - 22805.5 MHz) 1+0, BPSK to 1024QAM, 2x Electrical GbE ports, 1 year warranty	Now	Microwave	Terminal	\$ 4,170.00
AP23-2E-HBT-B2	GB9729	ALFO Plus 23 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, High Band ODU, Sub-Band 2, (21600 - 22000 MHz / 22800 - 23200 MHz) 1+0, BPSK to 1024QAM, 2x Electrical GbE ports, 1 year warranty	Now	Microwave	Terminal	\$ 4,170.00
AP23-2E-LBT-B2	GB9728	ALFO Plus 23 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, Low Band ODU, Sub-Band 2, (21600 - 22000 MHz / 22800 - 23200 MHz) 1+0, BPSK to 1024QAM, 2x Electrical GbE ports, 1 year warranty	Now	Microwave	Terminal	\$ 4,170.00
AP23-2E-HBT-B3	GB9731	ALFO Plus 23 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, High Band ODU, Sub-Band 3, (21997.5 - 22400 MHz / 23197.5 - 23600 MHz) 1+0, BPSK to 1024QAM, 2x Electrical GbE ports, 1 year warranty	Now	Microwave	Terminal	\$ 4,170.00
AP23-2E-LBT-B3	GB9730	ALFO Plus 23 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, Low Band ODU, Sub-Band 3, (21997.5 - 22400 MHz / 23197.5 - 23600 MHz) 1+0, BPSK to 1024QAM, 2x Electrical GbE ports, 1 year warranty	Now	Microwave	Terminal	\$ 4,170.00
AP23-EO-HBT-B1	GB7727	ALFO Plus 23 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, High Band ODU, Sub-Band 1, (21200 - 21605.5 MHz / 22400 - 22805.5 MHz) 1+0, BPSK to 1024QAM, 1x Electrical GbE port + 1x Optical GbE port, 1 year warranty	Special Order	Microwave	Terminal	\$ 4,170.00
AP23-EO-LBT-B1	GB7726	ALFO Plus 23 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, Low Band ODU, Sub-Band 1, (21200 - 21605.5 MHz / 22400 - 22805.5 MHz) 1+0, BPSK to 1024QAM, 1x Electrical GbE port + 1x Optical GbE port, 1 year warranty	Special Order	Microwave	Terminal	\$ 4,170.00
AP23-EO-HBT-B2	GB7729	ALFO Plus 23 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, High Band ODU, Sub-Band 2, (21600 - 22000 MHz / 22800 - 23200 MHz) 1+0, BPSK to 1024QAM, 1x Electrical GbE port + 1x Optical GbE port, 1 year warranty	Special Order	Microwave	Terminal	\$ 4,170.00
AP23-EO-LBT-B2	GB7728	ALFO Plus 23 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, Low Band ODU, Sub-Band 2, (21600 - 22000 MHz / 22800 - 23200 MHz) 1+0, BPSK to 1024QAM, 1x Electrical GbE port + 1x Optical GbE port, 1 year warranty	Special Order	Microwave	Terminal	\$ 4,170.00
AP23-EO-HBT-B3	GB7731	ALFO Plus 23 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, High Band ODU, Sub-Band 3, (21997.5 - 22400 MHz / 23197.5 - 23600 MHz) 1+0, BPSK to 1024QAM, 1x Electrical GbE port + 1x Optical GbE port, 1 year warranty	Special Order	Microwave	Terminal	\$ 4,170.00
AP23-EO-LBT-B3	GB7730	ALFO Plus 23 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, Low Band ODU, Sub-Band 3, (21997.5 - 22400 MHz / 23197.5 - 23600 MHz) 1+0, BPSK to 1024QAM, 1x Electrical GbE port + 1x Optical GbE port, 1 year warranty	Special Order	Microwave	Terminal	\$ 4,170.00
AP24-2E-HBT-B1	GB9733-04	ALFO Plus 24 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, High Band ODU, Sub-Band 1, (24050 - 24106 MHz / 24194 - 24250 MHz) 1+0, BPSK to 1024QAM, 2x Electrical GbE ports, 1 year warranty	Now	Microwave	Terminal	\$ 3,570.00
AP24-2E-LBT-B1	GB9732-04	ALFO Plus 24 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, Low Band ODU, Sub-Band 1, (24050 - 24106 MHz / 24194 - 24250 MHz) 1+0, BPSK to 1024QAM, 2x Electrical GbE ports, 1 year warranty	Now	Microwave	Terminal	\$ 3,570.00
AP24-EO-HBT-B1	GB7733-04	ALFO Plus 24 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, High Band ODU, Sub-Band 1, (24050 - 24106 MHz / 24194 - 24250 MHz) 1+0, BPSK to 1024QAM, 1x Electrical GbE port + 1x Optical GbE port, 1 year warranty	Special Order	Microwave	Terminal	\$ 3,570.00

AP24-EO-LBT-B1	GB7732-04	ALFO Plus 24 GHz, 100 Mbps full-duplex capacity, software upgradeable to 400 Mbps, Low Band ODU, Sub-Band 1, (24050 - 24106 MHz / 24194 - 24250 MHz) 1+0, BPSK to 1024QAM, 1x Electrical GbE port + 1x Optical GbE port, 1 year warranty	Special Order	Microwave	Terminal	\$ 3,570.00
ALFO Plus Software License Capacity Upgrades						
UPG-AP-100-400	SWK100T400M	ALFOPlus SW License from 100 to 400 Mbps capacity	Now	S/W Upgrades	Terminal	\$ 450.00
UPG-AP-ACM	SWKACM	ALFOPlus SW License to enable Adaptive Code Modulation	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-AP-OAM	SWKOAM	ALFOPlus SW License to enable OAM (CFM)	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-AP-SSM	SWKSSM	ALFOPlus SW License to enable SyncE SSM	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-AP-PHC	SWKPHC	ALFOPlus SW License to enable Packet Header Compression	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-AP-RMON	SWKRMON	ALFOPlus SW License to enable RMON (Remote Ethernet Monitoring)	Now	S/W Upgrades	Terminal	\$ 250.00

**AGS20 Family /ASN
Family Split Mount Radios**

SF Product Name	SIAE Product Code	Description	Availability	Product Family	Unit	LIST Price (\$)
AGS20 Indoor Units						
AGS20-IF0GE8	GAI0222	AGS-20 Indoor Unit, 0xIF radio interfaces, 10xGE LAN interfaces (8 simultaneous), -48 VDC DC input, 1 year warranty	Now	AGS20	Terminal	\$ 1,850.00
AGS20-IF0GE6-10G	GAI0227	AGS-20 Indoor Unit, 0xIF radio interfaces, 2x 10xGE LAN interfaces (6 simultaneous), -48 VDC DC input, 1 year warranty	Now	AGS20	Terminal	\$ 1,415.00
AGS20-IF1GE6	GAI0213	AGS-20 Indoor Unit, 1xIF radio interfaces, 8xGE LAN interfaces (6 simultaneous), -48 VDC DC input, 1 year warranty	Now	AGS20	Terminal	\$ 1,950.00
AGS20-IF2GE6	GAI0215-2	AGS-20 Indoor Unit, 2xIF radio interfaces, 8xGE LAN interfaces (6 simultaneous), -48 VDC DC input, 1 year warranty	Now	AGS20	Terminal	\$ 2,800.00
AGS20-IF2GE6-10G	GAI0230-3	AGS-20 Indoor Unit, 2xIF radio interfaces, 2x10GE + 6xGE LAN interfaces (6 simultaneous), -48 VDC DC input, 1 year warranty	Now	AGS20	Terminal	\$ 3,350.00
AGS20-IF4GE6	GAI0219-1	AGS-20 Indoor Unit, 4xIF radio interfaces, 8xGE LAN interfaces (6 simultaneous), -48 VDC DC input, 1 year warranty	Now	AGS20	Terminal	\$ 3,700.00
AGS20-IF4GE6-10G	GAI0233	AGS-20 Indoor Unit, 4xIF radio interfaces, 2x10GE + 6xGE LAN interfaces (6 simultaneous), -48 VDC DC input, 1 year warranty	Now	AGS20	Terminal	\$ 4,500.00
AGS20 Software License Capacity Upgrades						
UPG-AGS20-100-500	SWK100T400M	AGS20 SW License from 100 to 500 Mbps capacity (per direction)	Now	S/W Upgrades	Terminal	\$ 500.00
UPG-AGS20-ACM	SWKACM	AGS20 SW License to enable Adaptive Code Modulation	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-AGS20-SSM	SWKSSM	AGS20 SW License to enable SyncE SSM	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-AGS20-PHC	SWKPHC	AGS20 SW License to enable Packet Header Compression	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-AGS20-RMON	SWKRMON	AGS20 SW License to enable RMON (Remote Ethernet Monitoring)	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-AGS20-SECP	SWKSECP	AGS20 SW License to enable Security Package (HTTPS, SFTP, SSH, SNMPv3)	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-AGS20-AES	SWKAES	AGS20 SW License to enable 256-AES Encryption, Also requires UPG-AP2-SECP	Now	S/W Upgrades	Terminal	\$ 2,000.00
AGS20M Indoor Units						
AGS20-M-IDU	GAI0244-3	AGS20-M Indoor Unit, 2x11F radio interfaces, 6xGE LAN interfaces, 6x 1 - 4x 2.5/10 Gbps, -48VDC input, 1 year warranty	Now	Microwave	Terminal	\$ 3,995.00
AGS20-M-DC-IDU	GAI0245-3	AGS20-M Indoor Unit, 2x1F Dual Carrier radio interfaces, 6xGE LAN interfaces, 6x 1 - 4x 2.5/10 Gbps, -48VDC input, 1 year warranty	Now	Microwave	Terminal	\$ 4,595.00
SIAE-D60300	D60300	AGS20-M Fan Unit (Spare)	Now	Microwave	Terminal	\$ 200.00
SIAE-D60302	D60302	AGS20-M Radio Interface Module, RIM (Expansion), 2x 11F ports	Now	Microwave	Terminal	\$ 1,450.00
SIAE-D60311	D60311	AGS20-L Radio Interface Module (RIM) AR12 Dual Modem Card, 1x 21F ports for use with ASNK D/Q ODU	Now	Microwave	Terminal	\$ 1,670.00
SIAE-P04189	P04189	Plug, 3 contacts, P. 5.08 (required for D60081 and D60082 and AGS20M)	Now	Microwave	Terminal	\$ 10.00
SIAE-V42024L	V42024L	AGS20 Grounding Kit	Now	Microwave	Terminal	\$ 15.00
SIAE-F21007	F21007	IF Cable Adapter, SMA-M to N-F, 3ft	Now	Microwave	Terminal	\$ 25.00
AGS20L Indoor Units						
AGS20-L-IDU	B60021	AGS20-L Indoor 2RU Wired Sub-Rack, no Modules, -48VDC input, 1 year warranty	Now	Microwave	Terminal	\$ 640.00
SIAE-D60083	D60083	AGS20-L Fan Unit	Now	Microwave	Terminal	\$ 160.00
SIAE-D60084	D60084	AGS20-L Power Supply Module, -48VDC	Now	Microwave	Terminal	\$ 400.00
SIAE-D60086	D60086	AGS20-L CORE Module	Now	Microwave	Terminal	\$ 2,280.00
SIAE-D60085	D60085	AGS20-L Radio Interface Module (RIM) AR12 Dual Modem Card, 2x 11F ports for ASNK ODU	Now	Microwave	Terminal	\$ 1,450.00

SIAE-D60311	D60311	AGS20-L Radio Interface Module (RIM) ARI2 Dual Modem Card, 1x 2IF ports for use with ASNK D/Q ODU	Now	Microwave	Terminal	\$ 1,670.00
SIAE-D60301	D60301	AGS20-L Radio Interface Module (RIM) DRI2 2x 10GbE Card	Now	Microwave	Terminal	\$ 780.00
SIAE-D60087	D60087	AGS20-L Line Interface Module (LIM), 4x 1 Gb EL + 4x 1/2.5 Gb OPT	Now	Microwave	Terminal	\$ 820.00
SIAE-D60305	D60305	AGS20-L Line Interface Module (LIM), 2x 10Gb + 4x 1Gb OPT or 8x 1 Gb OPT	Now	Microwave	Terminal	\$ 820.00
SIAE-D60088	D60088	AGS20-L Line Interface Module (LIM), 8x E1 + 2 x STM-1	Now	Microwave	Terminal	\$ 820.00
SIAE-V60745	V60745	AGS20-L Cover for Unequipped Power Supply Slot	Now	Microwave	Terminal	\$ 15.00
SIAE-V60744	V60744	AGS20-L Cover for Unequipped RIM/LIM/CORE Slot	Now	Microwave	Terminal	\$ 15.00
SIAE-P30025	P30025	AGS20L DC Power Plug (requires xxxxxxx) Crimp Tool	Now	Microwave	Terminal	\$ 18.00
SIAE-F03686	F03686	AGS20L DC Power Cable Pigtail, 2m, 4mm2 (12AWG)	Now	Microwave	Terminal	\$ 60.00
SIAE-F03680	F03680	AGS20L, DC Power Cable Pigtail, 3m, 6mm2 (10AWG)	Now	Microwave	Terminal	\$ 50.00
SIAE-V42024L	V42024L	AGS20 Grounding Kit	Now	Microwave	Terminal	\$ 15.00
SIAE-F21007	F21007	IF Cable Adapter, SMA-M to N-F, 3ft	Now	Microwave	Terminal	\$ 25.00
AGS20L & AGS20M Software License Capacity Upgrades						
UPG-AGS20-L/M-100-750	SWK100T750M	AGS20 L&M SW License from 100 to 750 Mbps capacity (per direction) for 4096QAM capable IDUs	Now	Microwave	Terminal	\$ 650.00
UPG-AGS20-ACM	SWKACM	AGS20 SW License to enable Adaptive Code Modulation	Now	Microwave	Terminal	\$ 250.00
UPG-AGS20-SSM	SWKSSM	AGS20 SW License to enable SyncE SSM	Now	Microwave	Terminal	\$ 250.00
UPG-AGS20-PHC	SWKPHC	AGS20 SW License to enable Packet Header Compression	Now	Microwave	Terminal	\$ 250.00
UPG-AGS20-RMON	SWKRMON	AGS20 SW License to enable RMON (Remote Ethernet Monitoring)	Now	Microwave	Terminal	\$ 250.00
UPG-AGS20-SECP	SWKSECP	AGS20 SW License to enable Security Package (HTTPS, SFTP, SSH, SNMPv3)	Now	Microwave	Terminal	\$ 250.00
UPG-AGS20-AES	SWKAES	AGS20 SW License to enable 256-AES Encryption, Also requires UPG-AP2-SECP	Now	Microwave	Terminal	\$ 2,000.00
UPG-AGS20-AGG	SWKAGG	AGS20 SW License to enable L1 Aggregation up to 4 physical radio channels (ODUs)	Now	Microwave	Terminal	\$ 250.00
UPG-AGS20-XPIC	SWKXPIC	AGS20 SW License to enable XPIC functionality. Also requires Radio Aggregation (UPG-AGS20-AGG)	Now	Microwave	Terminal	\$ 250.00
UPG-AGS20-FMGN	SWKFMGN	AGS20 SW License to enable Fade Margin Facility. Compares calculated link FM with actual FM	Now	Microwave	Terminal	\$ 150.00
UPG-AGS20-OSPF	SWKOSPF	AGS20 SW License to enable OSPF routing protocol for MGMT routing (L2), and IS-IS routing (L3)	Now	Microwave	Terminal	\$ 250.00
UPG-AGS20-MPLS	SWKMPLS	AGS20 SW License to enable MPLS transport level to establish L2/L3 VPN services & enables VRF capability	Now	Microwave	Terminal	\$ 2,000.00
UPG-AGS20-1588E	SWK1588E	AGS20 SW License to enable IEEE 1588 Boundary Clock per ITU-T G.8275 & G.8273.2	Now	Microwave	Terminal	\$ 250.00
UPG-AGS20-HQOS	SWKHQOS	AGS20 SW License to enable Hierarchical QoS.	Now	Microwave	Terminal	\$ 250.00
UPG-AGS20-RING	SWKRING	AGS20 SW License to enable Ethernet Ring Protection per ITU-T G.8032	Now	Microwave	Terminal	\$ 250.00
UPG-AGS20-BGP	SWKBGP	AGS20 SW License to enable Border Gateway Protocol (BGP)	Now	Microwave	Terminal	\$ 1,000.00
ASNK Outdoor Units						
ASN-HP-HBT-06L01	GE3501-46	ODU ASNK6L/252.04 HP SB=1H - High Band ODU, Sub-Band 1, (5900 - 5990 MHz / 6152 - 6242 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 1,750.00
ASN-HP-LBT-06L01	GE3500-46	ODU ASNK6L/252.04 HP SB=1L - Low Band ODU, Sub-Band 1, (5900 - 5990 MHz / 6152 - 6242 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 1,750.00
ASN-HP-HBT-06L02	GE3503-46	ODU ASNK6L/252.04 HP SB=2H - High Band ODU, Sub-Band 2, (5959 - 6049 MHz / 6211 - 6301 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 1,750.00
ASN-HP-LBT-06L02	GE3502-46	ODU ASNK6L/252.04 HP SB=2L - Low Band ODU, Sub-Band 2, (5959 - 6049 MHz / 6211 - 6301 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 1,750.00
ASN-HP-HBT-06L03	GE3505-46	ODU ASNK6L/252.04 HP SB=3H - High Band ODU, Sub-Band 3, (6019 - 6109 MHz / 6271 - 6361 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 1,750.00
ASN-HP-LBT-06L03	GE3504-46	ODU ASNK6L/252.04 HP SB=3L - Low Band ODU, Sub-Band 3, (6019 - 6109 MHz / 6271 - 6361 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 1,750.00
ASN-HP-HBT-06L04	GE3507-46	ODU ASNK6L/252.04 HP SB=4H - High Band ODU, Sub-Band 4, (6078 - 6168 MHz / 6330 - 6420 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 1,750.00
ASN-HP-LBT-06L04	GE3506-46	ODU ASNK6L/252.04 HP SB=4L - Low Band ODU, Sub-Band 4, (6078 - 6168 MHz / 6330 - 6420 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 1,750.00
ASN-HP-HBT-1101	GE3607-46	ODU ASNK11/490 HP SB=1H - High Band ODU, Sub-Band 1, (10715 - 10895 MHz / 11205 - 11385 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 1,750.00
ASN-HP-LBT-1101	GE3606-46	ODU ASNK11/490 HP SB=1L - Low Band ODU, Sub-Band 1, (10715 - 10895 MHz / 11205 - 11385 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 1,750.00
ASN-HP-HBT-1102	GE3609-46	ODU ASNK11/490 HP SB=2H - High Band ODU, Sub-Band 2, (10875 - 11055 MHz / 11365 - 11545 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 1,750.00
ASN-HP-LBT-1102	GE3608-46	ODU ASNK11/490 HP SB=2L - Low Band ODU, Sub-Band 2, (10875 - 11055 MHz / 11365 - 11545 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 1,750.00
ASN-HP-HBT-1103	GE3611-46	ODU ASNK11/490 HP SB=3H - High Band ODU, Sub-Band 3, (11035 - 11215 MHz / 11525 - 11705 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 1,750.00

ASN-HP-LBT-1103	GE3610-46	ODU ASNK11/490 HP SB=3L - Low Band ODU, Sub-Band 3, (11035 - 11215 MHz / 11525 - 11705 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 1,750.00
ASN-SP-HBT-1801	GE8717-46	ODU ASNK18/1560 SP SB=1H - High Band ODU, Sub-Band 1, (17700 - 18140 MHz / 19260 - 19700 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 1,750.00
ASN-SP-LBT-1801	GE8716-46	ODU ASNK18/1560 SP SB=1L - Low Band ODU, Sub-Band 1, (17700 - 18140 MHz / 19260 - 19700 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 1,750.00
ASN-SP-HBT-2301	GE8727-46	ODU ASNK23/1200 SP SB=1H - High Band ODU, Sub-Band 1, (21200 - 21605.5 MHz / 22400 - 22805.5 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 1,750.00
ASN-SP-LBT-2301	GE8726-46	ODU ASNK23/1200 SP SB=1L - Low Band ODU, Sub-Band 1, (21200 - 21605.5 MHz / 22400 - 22805.5 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 1,750.00
ASN-SP-HBT-2302	GE8729-46	ODU ASNK23/1200 SP SB=2H - High Band ODU, Sub-Band 2, (21600 - 22000 MHz / 22800 - 23200 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 1,750.00
ASN-SP-LBT-2302	GE8728-46	ODU ASNK23/1200 SP SB=2L - Low Band ODU, Sub-Band 2, (21600 - 22000 MHz / 22800 - 23200 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 1,750.00
ASN-SP-HBT-2303	GE8731-46	ODU ASNK23/1200 SP SB=3H - High Band ODU, Sub-Band 3, (21997.5 - 22400 MHz / 23197.5 - 23600 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 1,750.00
ASN-SP-LBT-2303	GE8730-46	ODU ASNK23/1200 SP SB=3L - Low Band ODU, Sub-Band 3, (21997.5 - 22400 MHz / 23197.5 - 23600 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 1,750.00
ASNK-DC Outdoor Units						
ASN-DC-HBT-06L01	GF3501-12	ODU ASNK-DC 6L/252,04 HP SB=1H - High Band ODU, Sub-Band 1, (5900 - 5990 MHz / 6152 - 6242 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 2,650.00
ASN-DC-LBT-06L01	GF3500-12	ODU ASNK-DC 6L/252,04 HP SB=1L - Low Band ODU, Sub-Band 1, (5900 - 5990 MHz / 6152 - 6242 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 2,650.00
ASN-DC-HBT-06L02	GF3503-12	ODU ASNK-DC 6L/252,04 HP SB=2H - High Band ODU, Sub-Band 2, (5959 - 6049 MHz / 6211 - 6301 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 2,650.00
ASN-DC-LBT-06L02	GF3502-12	ODU ASNK-DC 6L/252,04 HP SB=2L - Low Band ODU, Sub-Band 2, (5959 - 6049 MHz / 6211 - 6301 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 2,650.00
ASN-DC-HBT-06L03	GF3505-12	ODU ASNK-DC 6L/252,04 HP SB=3H - High Band ODU, Sub-Band 3, (6019 - 6109 MHz / 6271 - 6361 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 2,650.00
ASN-DC-LBT-06L03	GF3504-12	ODU ASNK-DC 6L/252,04 HP SB=3L - Low Band ODU, Sub-Band 3, (6019 - 6109 MHz / 6271 - 6361 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 2,650.00
ASN-DC-HBT-06L04	GF3507-12	ODU ASNK-DC 6L/252,04 HP SB=4H - High Band ODU, Sub-Band 4, (6078 - 6168 MHz / 6330 - 6420 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 2,650.00
ASN-DC-LBT-06L04	GF3506-12	ODU ASNK-DC 6L/252,04 HP SB=4L - Low Band ODU, Sub-Band 4, (6078 - 6168 MHz / 6330 - 6420 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 2,650.00
ASN-DC-HBT-1101	GF3607-12	ODU ASNK-DC 11/490 HP SB=1H - High Band ODU, Sub-Band 1, (10715 - 10895 MHz / 11205 - 11385 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 2,650.00
ASN-DC-LBT-1101	GF3606-12	ODU ASNK-DC 11/490 HP SB=1L - Low Band ODU, Sub-Band 1, (10715 - 10895 MHz / 11205 - 11385 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 2,650.00
ASN-DC-HBT-1102	GF3609-12	ODU ASNK-DC 11/490 HP SB=2H - High Band ODU, Sub-Band 2, (10875 - 11055 MHz / 11365 - 11545 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 2,650.00
ASN-DC-LBT-1102	GF3608-12	ODU ASNK-DC 11/490 HP SB=2L - Low Band ODU, Sub-Band 2, (10875 - 11055 MHz / 11365 - 11545 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 2,650.00
ASN-DC-HBT-1103	GF3611-12	ODU ASNK-DC 11/490 HP SB=3H - High Band ODU, Sub-Band 3, (11035 - 11215 MHz / 11525 - 11705 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 2,650.00
ASN-DC-LBT-1103	GF3610-12	ODU ASNK-DC 11/490 HP SB=3L - Low Band ODU, Sub-Band 3, (11035 - 11215 MHz / 11525 - 11705 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 2,650.00
ASN-DC-HBT-1801	GF8717-12	ODU ASNK-DC 18/1560 SP SB=1H - High Band ODU, Sub-Band 1, (17700 - 18140 MHz / 19260 - 19700 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 2,650.00
ASN-DC-LBT-1801	GF8716-12	ODU ASNK-DC 18/1560 SP SB=1L - Low Band ODU, Sub-Band 1, (17700 - 18140 MHz / 19260 - 19700 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 2,650.00
ASN-DC-HBT-2301	GF8727-12	ODU ASNK-DC 23/1200 SP SB=1H - High Band ODU, Sub-Band 1, (21200 - 21605.5 MHz / 22400 - 22805.5 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 2,650.00
ASN-DC-LBT-2301	GF8726-12	ODU ASNK-DC 23/1200 SP SB=1L - Low Band ODU, Sub-Band 1, (21200 - 21605.5 MHz / 22400 - 22805.5 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 2,650.00
ASN-DC-HBT-2302	GF8729-12	ODU ASNK-DC 23/1200 SP SB=2H - High Band ODU, Sub-Band 2, (21600 - 22000 MHz / 22800 - 23200 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 2,650.00
ASN-DC-LBT-2302	GF8728-12	ODU ASNK-DC 23/1200 SP SB=2L - Low Band ODU, Sub-Band 2, (21600 - 22000 MHz / 22800 - 23200 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 2,650.00
ASN-DC-HBT-2303	GF8731-12	ODU ASNK-DC 23/1200 SP SB=3H - High Band ODU, Sub-Band 3, (21997.5 - 22400 MHz / 23197.5 - 23600 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 2,650.00
ASN-DC-LBT-2303	GF8730-12	ODU ASNK-DC 23/1200 SP SB=3L - Low Band ODU, Sub-Band 3, (21997.5 - 22400 MHz / 23197.5 - 23600 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 2,650.00
ASNK-QC, Quad Carrier Outdoor Units						
ASN-QC-HBT-1801	GG8717	ODU ASNK-QC 18/1560 SP SB=1H - High Band ODU, Sub-Band 1, (17700 - 18140 MHz / 19260 - 19700 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 5,400.00
ASN-QC-LBT-1801	GG8716	ODU ASNK-QC 18/1560 SP SB=1L - Low Band ODU, Sub-Band 1, (17700 - 18140 MHz / 19260 - 19700 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 5,400.00

ASN-QC-HBT-2301	GG8727	ODU ASNK-QC 23/1200 SP SB=1H - High Band ODU, Sub-Band 1, (21200 - 21605.5 MHz / 22400 - 22805.5 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 5,400.00
ASN-QC-LBT-2301	GG8726	ODU ASNK-QC 23/1200 SP SB=1L - Low Band ODU, Sub-Band 1, (21200 - 21605.5 MHz / 22400 - 22805.5 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 5,400.00
ASN-QC-HBT-2302	GG8729	ODU ASNK-QC 23/1200 SP SB=2H - High Band ODU, Sub-Band 2, (21600 - 22000 MHz / 22800 - 23200 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 5,400.00
ASN-QC-LBT-2302	GG8728	ODU ASNK-QC23/1200 SP SB=2L - Low Band ODU, Sub-Band 2, (21600 - 22000 MHz / 22800 - 23200 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 5,400.00
ASN-QC-HBT-2303	GG8731	ODU ASNK-QC23/1200 SP SB=3H - High Band ODU, Sub-Band 3, (21997.5 - 22400 MHz / 23197.5 - 23600 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 5,400.00
ASN-QC-LBT-2303	GG8730	ODU ASNK-QC23/1200 SP SB=3L - Low Band ODU, Sub-Band 3, (21997.5 - 22400 MHz / 23197.5 - 23600 MHz), 1 year warranty	Now	Microwave	Terminal	\$ 5,400.00

ALFOPlus 80HDX

SF Product Name	SIAE Product Code	Description	Availability	Product Family	Unit	LIST Price (\$)
ALFO Plus80 HD 1 Gbps expandable to 2 Gbps Radio Link						
AP80HDX-LNK	LNKEX1010LGBW	ALFOPlus80HDX, 80 GHz, 2Gbps full-duplex capacity, software upgradeable to 10 Gbps, LINK, 71 - 86 GHz, BPSK to 64QAM, 2x Electrical GbE + 2x Optical ports, 1 year warranty	Now	80 GHz	Link	\$ 14,500.00
ALFO Plus80 HD 1 Gbps expandable to 2 Gbps Radio Terminal						
AP80HDX-HBT	GB9921-01	ALFOPlus80HDX, 80 GHz, 2Gbps full-duplex capacity, software upgradeable to 10 Gbps, High-Band ODU, 71 - 86 GHz, BPSK to 64QAM, 2x Electrical GbE ports + 2x Optical ports, 1 year warranty	Now	80 GHz	Terminal	\$ 8,700.00
AP80HDX-LBT	GB9920-01	ALFOPlus80HDX, 80 GHz, 2Gbps full-duplex capacity, software upgradeable to 10 Gbps, Low-Band ODU, 71 - 86 GHz, BPSK to 64QAM, 2x Electrical GbE ports + 2x Optical ports, 1 year warranty	Now	80 GHz	Terminal	\$ 8,700.00
ALFO Plus80 HD 1 Gbps expandable to 2 Gbps Radio Spares & Accessories						
UPG-80HDX-5000	SWK2T5GB	ALFOPlus80HDX SW License from 2 Gbps to 5 Gbps capacity	Now	S/W Upgrades	Terminal	\$ 500.00
UPG-80HDX-5TO10	SWK5T10GB	ALFOPlus80HDX SW License from 5 Gbps to 10 Gbps capacity	Now	S/W Upgrades	Terminal	\$ 750.00
UPG-80HDX-10000	SWK2T10GB	ALFOPlus80HDX SW License from 2 Gbps to 10 Gbps capacity	Now	S/W Upgrades	Terminal	\$ 1,250.00
UPG-80HDX-ACM	SWKACM	ALFOPlus80HDX SW License to enable ACM	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-80HDX-SSM	SWKSSM	ALFOPlus80HDX SW License to enable SyncE	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-80HDX-OAM	SWKOAM	ALFOPlus80HDX SW License to enable OAM	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-80HDX-RMON	SWKRMON	ALFOPlus80HDX SW License to enable RMON	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-80HDX-SECP	SWKSECP	ALFOPlus80HDX SW License to enable Security Package (HTTPS, SFTP, SSH, SNMPv3)	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-80HDX-AES	SWKAES	ALFOPlus80HDX SW License to enable 256-AES Encryption, Also requires UPG-AP2-SECP	Now	S/W Upgrades	Terminal	\$ 2,000.00

ALFOPlus 80HD

SF Product Name	SIAE Product Code	Description	Availability	Product Family	Unit	LIST Price (\$)
ALFO Plus80 HD 1 Gbps expandable to 2 Gbps Radio Link						
AP80HD-2E-LNK	LNKEBHD101GBEL	ALFO Plus80 HD, 80 GHz, 1Gbps full-duplex capacity, software upgradeable to 2 Gbps, LINK, 71 - 86 GHz, BPSK to 64QAM, 2x Electrical GbE ports, 1 year warranty	Special Order	80 GHz	Link	\$ 7,995.00
AP80HD-2O-LNK	LNKEBHD101GBOP	ALFO Plus80 HD, 80 GHz, 1Gbps full-duplex capacity, software upgradeable to 2 Gbps, LINK, 71 - 86 GHz, BPSK to 64QAM, 2x Optical GbE ports, 1 year warranty	Now	80 GHz	Link	\$ 7,995.00
ALFO Plus80 HD 1 Gbps expandable to 2 Gbps Radio Terminal						
AP80HD-2E-HBT	GB9917	ALFO Plus80 HD, 80 GHz, 1Gbps full-duplex capacity, software upgradeable to 2 Gbps, High-Band ODU, 71 - 86 GHz, BPSK to 64QAM, 2x Electrical GbE ports, 1 year warranty	Special Order	80 GHz	Terminal	\$ 4,797.00
AP80HD-2E-LBT	GB9916	ALFO Plus80 HD, 80 GHz, 1Gbps full-duplex capacity, software upgradeable to 2 Gbps, Low-Band ODU, 71 - 86 GHz, BPSK to 64QAM, 2x Electrical GbE ports, 1 year warranty	Special Order	80 GHz	Terminal	\$ 4,797.00

AP80HD-20-HBT	GB9919-01	ALFO Plus80 HD, 80 GHz, 1Gbps full-duplex capacity, software upgradeable to 2 Gbps, High-Band ODU, 71 - 86 GHz, BPSK to 64QAM, 2x Optical GbE ports, 1 year warranty	Now	80 GHz	Terminal	\$ 4,797.00
AP80HD-20-LBT	GB9918-01	ALFO Plus80 HD, 80 GHz, 1Gbps full-duplex capacity, software upgradeable to 2 Gbps, Low-Band ODU, 71 - 86 GHz, BPSK to 64QAM, 2x Optical GbE ports, 1 year warranty	Now	80 GHz	Terminal	\$ 4,797.00
ALFO Plus80 HD 1 Gbps expandable to 2 Gbps Radio Spares & Accessories						
UPG-80HD-2000	SWK1T2GB	ALFOPlus80HD SW License from 1 Gbps to 2 Gbps capacity	Now	S/W Upgrades	Terminal	\$ 500.00
UPG-80HD-ACM	SWKACM	ALFOPlus80HD SW License to enable ACM	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-80HD-SSM	SWKSSM	ALFOPlus80HD SW License to enable SyncE	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-80HD-OAM	SWKOAM	ALFOPlus80HD SW License to enable OAM	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-80HD-RMON	SWKRMON	ALFOPlus80HD SW License to enable RMON	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-80HD-SECP	SWKSECP	ALFOPlus80HD SW License to enable Security Package (HTTPS, SFTP, SSH, SNMPv3)	Now	S/W Upgrades	Terminal	\$ 250.00
UPG-80HD-AES	SWKAES	ALFOPlus80HD SW License to enable 256-AES Encryption, Also requires UPG-AP2-SECP	Now	S/W Upgrades	Terminal	\$ 2,000.00

Accessories

SF Product Name	SIAE Product Code	Description	Availability	Product Family	Unit	LIST Price (\$)
POE (Power Over Ethernet) Injectors						
SIAE-D60081	D60081	PoE Injector, Indoor 1RU Rack Mount, 48VDC input, 2xPoE 85w per port output. Requires one each P04189	Now	Accessories	Each	\$ 400.00
SIAE-D60082	D60082	PoE Injector, Indoor 1RU Rack Mount, 48VDC input, 4xPoE 85w per port output. Requires one each P04189	Now	Accessories	Each	\$ 650.00
SIAE-G52005-USA	G52005-USA	PoE Injector, Outdoor, Regenerator/Injector, 48VDC input, 1xPoE 85w output	Now	Accessories	Each	\$ 550.00
SIAE-G52006-USA	G52006-USA	PoE Injector, Outdoor, Regenerator/Splitter, 48VDC input, 1xPoE 85w output	Now	Accessories	Each	\$ 550.00
SIAE-G52008-USA	G52008-USA	PoE Injector, Outdoor, 48VDC input, 1xPoE 85w output (requires V60761 Pole Mount Kit)	Now	Accessories	Each	\$ 450.00
SIAE-ICD001408	ICD001408	Power Cord for PoE Injector, NEMA 5-15 (US) plug	Now	Accessories	Each	\$ 10.00
SIAE-P04189	P04189	Plug, 3 contacts, P. 5.08 (required for D60081 and D60082)	Now	Accessories	Each	\$ 10.00
SIAE-S03654	S03654	75W Indoor POE Injector, (DC/DC) for ALFOPlus & ALFOPlus80HD	Now	Accessories	Each	\$ 230.00
SIAE-S03665	S03665	65W Indoor POE Injector (AC/DC) for ALFOPlus & ALFOPlus80HD. Requires 1 ea ICD001408.	Now	Accessories	Each	\$ 230.00
SIAE-S03690	S03690	95W Indoor POE Injector (AC/DC) for ALFOPlus2/XG, ALFOPlus80HDX. Requires 1 ea ICD001408.	Now	Accessories	Each	\$ 320.00
SIAE-V60761	V60761	Outdoor POE injector Pole Mount Kit	Now	Accessories	Each	\$ 50.00
SFPs						
SIAE-E01419	E01419	1000BaseLX SFP Module (Single mode)	Now	Accessories	Each	\$ 90.00
SIAE-E01428	E01428	1000BaseSX SFP Module (Multi mode)	Now	Accessories	Each	\$ 85.00
SIAE-E01429	E01429	2.5 Gbps Optical SFP Module (Multi mode)	Now	Accessories	Each	\$ 100.00
SIAE-E01430	E01430	1000BaseTX SFP Module	Now	Accessories	Each	\$ 142.00
SIAE-E01435	E01435	10 Gbps Optical SFP Module, -LX (Single mode)	Now	Accessories	Each	\$ 325.00
SIAE-E01436	E01436	10 Gbps Optical SFP Module, -SX (Multi mode)	Now	Accessories	Each	\$ 325.00
SIAE-E01437A	E01437A	2.5 Gbps Optical SFP Module (Singlemode)	Now	Accessories	Each	\$ 150.00
MGMT, Pointing & Console Cables						
SIAE-F03594	F03594	ALFOPlus & ALFOPlus80 Console (Lab) Cable	Now	Accessories	Each	\$ 75.00
SIAE-F03608	F03608	ALFOPlus and ALFOPlus80 Pointing Cable	Now	Accessories	Each	\$ 75.00
SIAE-F03616	F03616	ALFOPlus2 Pointing Cable	Now	Accessories	Each	\$ 75.00
SIAE-F03622	F03622	ALFOPlus80 HD Console Cable	Now	Accessories	Each	\$ 90.00
SIAE-F03667	F03667	ALFOPlus80HDX Pointing Cable	Now	Accessories	Each	\$ 75.00
Fiber Jumpers (Rosenberger, NOT for ALFOPlus)						
SIAE-F15401	F15401	OPTICAL CABLES (160 FT, 50m) - Single Mode - for Rosenberger connector	Now	Accessories	Each	\$ 400.00
SIAE-F15402	F15402	OPTICAL CABLES (80 FT, 25m) - Single Mode - for Rosenberger connector	Now	Accessories	Each	\$ 240.00
SIAE-F15403	F15403	OPTICAL CABLES (33 FT, 10m) - Single Mode - for Rosenberger connector	Now	Accessories	Each	\$ 190.00
SIAE-F15404	F15404	OPTICAL CABLES (16 FT, 5m) - Single Mode - for Rosenberger connector	Now	Accessories	Each	\$ 165.00

SIAE-F15405	F15405	OPTICAL CABLES (8 FT, 2.5m) - Single Mode - for Rosenberger connector	Now	Accessories	Each	\$ 145.00
SIAE-F15406	F15406	OPTICAL CABLES (320 FT, 100m) - Single Mode - for Rosenberger connector	Now	Accessories	Each	\$ 650.00
SIAE-F15409	F15409	OPTICAL CABLES (640 FT, 200m) - Single Mode - for Rosenberger connector	Now	Accessories	Each	\$ 1,150.00
SIAE-F15450	F15450	OPTICAL CABLES (320 FT, 100m) - Multimode - for Rosenberger connector	Now	Accessories	Each	\$ 650.00
SIAE-F15452	F15452	OPTICAL CABLES (160 FT, 50m) - Multimode - for Rosenberger connector	Now	Accessories	Each	\$ 410.00
SIAE-F15453	F15453	OPTICAL CABLES (80 FT, 25m) - Multimode - for Rosenberger connector	Now	Accessories	Each	\$ 250.00
SIAE-F15454	F15454	OPTICAL CABLES (33 FT, 10m) - Multimode - for Rosenberger connector	Now	Accessories	Each	\$ 195.00
SIAE-F15455	F15455	OPTICAL CABLES (16 FT, 5m) - Multimode - for Rosenberger connector	Now	Accessories	Each	\$ 170.00
SIAE-F15456	F15456	OPTICAL CABLES (8 FT, 2.5m) - Multimode - for Rosenberger connector	Now	Accessories	Each	\$ 150.00
SIAE-F15486A	F15486A	OPTICAL CABLES (320 FT, 100m) - Multimode - OM3 - for Rosenberger connector	Now	Accessories	Each	\$ 700.00
SIAE-F15487A	F15487A	OPTICAL CABLES (480 FT, 150m) - Multimode - OM3 - for Rosenberger connector	Now	Accessories	Each	\$ 950.00
SIAE-F15488A	F15488A	OPTICAL CABLES (640 FT, 200m) - Multimode - OM3 - for Rosenberger connector	Now	Accessories	Each	\$ 1,200.00
SIAE-F15489A	F15489A	OPTICAL CABLES (400 FT, 125m) - Multimode - OM3 - for Rosenberger connector	Now	Accessories	Each	\$ 800.00
SIAE-F15490A	F15490A	OPTICAL CABLES (240 FT, 75m) - Multimode - OM3 - for Rosenberger connector	Now	Accessories	Each	\$ 560.00
Fiber Jumpers (Amphenol, for ALFOPlus)						
SIAE-P20035	P20035	OPTICAL CABLES (80 FT, 25m) - Multimode - for Amphenol connector	Now	Accessories	Each	\$ 220.00
SIAE-P20036	P20036	OPTICAL CABLES (160 FT, 50m) - Multimode - for Amphenol connector	Now	Accessories	Each	\$ 330.00
SIAE-P20037	P20037	OPTICAL CABLES (320 FT, 100m) - Multimode - for Amphenol connector	Now	Accessories	Each	\$ 540.00
SIAE-P20044	P20044	OPTICAL CABLES (80 FT, 25m) (LC/LC SM) - Single Mode - for Amphenol connector	Now	Accessories	Each	\$ 220.00
SIAE-P20045	P20045	OPTICAL CABLES (160 FT, 50m) (LC/LC SM) - Single Mode - for Amphenol connector	Now	Accessories	Each	\$ 320.00
SIAE-P20046	P20046	OPTICAL CABLES (320 FT, 100m) (LC/LC SM) - Single Mode - for Amphenol connector	Now	Accessories	Each	\$ 520.00
SIAE-P20048	P20048	OPTICAL CABLES (48 FT, 15m) - Multimode - for Amphenol connector	Special Order	Accessories	Each	\$ 175.00
SIAE-P20049	P20049	OPTICAL CABLES (112 FT, 35m) - Multimode - for Amphenol connector	Special Order	Accessories	Each	\$ 265.00
SIAE-P20050	P20050	OPTICAL CABLES (240 FT, 75m) - Multimode - for Amphenol connector	Special Order	Accessories	Each	\$ 430.00
SIAE-P20052	P20052	OPTICAL CABLES (8 FT, 2.5m) - Multimode - for Amphenol connector	Special Order	Accessories	Each	\$ 50.00
SIAE-P20053	P20053	OPTICAL CABLES (8 FT, 2.5m) (LC/LC SM) - Single Mode - for Amphenol connector	Special Order	Accessories	Each	\$ 50.00
SIAE-P20054	P20054	OPTICAL CABLES (240 FT, 75m) (LC/LC SM) - Single Mode - for Amphenol connector	Special Order	Accessories	Each	\$ 440.00
SIAE-P20055	P20055	OPTICAL CABLES (640 FT, 200m) (LC/LC SM) - Single Mode - for Amphenol connector	Special Order	Accessories	Each	\$ 980.00
SIAE-P20056	P20056	OPTICAL CABLES (48 FT, 15m) (LC/LC SM) - Single Mode - for Amphenol connector	Special Order	Accessories	Each	\$ 175.00
SIAE-P20057	P20057	OPTICAL CABLES (112 FT, 35m) (LC/LC SM) - Single Mode - for Amphenol connector	Special Order	Accessories	Each	\$ 265.00
SIAE-P20058	P20058	OPTICAL CABLES (32 FT, 10m) (LC/LC SM) - Single Mode - for Amphenol connector	Special Order	Accessories	Each	\$ 155.00
SIAE-P20059	P20059	OPTICAL CABLES (32 FT, 10m) - Multimode - for Amphenol connector	Special Order	Accessories	Each	\$ 155.00
SIAE-P20061	P20061	OPTICAL CABLES (480 FT, 150m) (LC/LC SM) - Single Mode - for Amphenol connector	Special Order	Accessories	Each	\$ 750.00
SIAE-P20062	P20062	OPTICAL CABLES (400 FT, 125m) (LC/LC SM) - Single Mode - for Amphenol connector	Special Order	Accessories	Each	\$ 645.00
SIAE-P20063	P20063	OPTICAL CABLES (560 FT, 175m) (LC/LC SM) - Single Mode - for Amphenol connector	Special Order	Accessories	Each	\$ 860.00
Flexible Waveguides						
SIAE-Z19297T	Z19297T	Flexible Waveguide 6GHz, PDR70-UDR70, 3ft, 1m. Requires one each AFLXV0001	Now	Accessories	Each	\$ 400.00
SIAE-Z20103T	Z20103T	Flexible Waveguide 6GHz, PBR84-PBR84, 3ft, 1m. Requires one each AFLXV0001	Now	Accessories	Each	\$ 400.00
SIAE-Z20104T	Z20104T	Flexible Waveguide 6GHz, PDR70-CPRI37G, 3ft, 1m. Requires one each AFLXV0001	Now	Accessories	Each	\$ 400.00
SIAE-Z17578T	Z17578T	Flex Waveguide, 7 GHz, PBR/PDR84. Requires one each AFLXV0001	Now	Accessories	Each	\$ 400.00
SIAE-Z18616T	Z18616T	Flexible Waveguide, 11GHz PBR100-UBR100, 3ft, 1m. Requires one each AFLXV0002	Now	Accessories	Each	\$ 340.00
SIAE-Z20113T	Z20113T	Flexible Waveguide, 11GHz PBR100-UDR100, 3ft. Requires one each AFLXV0002	Now	Accessories	Each	\$ 340.00
SIAE-Z16486T	Z16486T	Flex Waveguide, 11 GHz, PBR100 / PBR100, 3ft. Requires one each AFLXV0002	Now	Accessories	Each	\$ 340.00
SIAE-Z17280T	Z17280T	Flex Waveguide, 13 GHz, PBR120 / UBR120, 3ft. Requires one each AFLXV0002	Now	Accessories	Each	\$ 340.00
SIAE-Z18109T	Z18109T	Flex Waveguide, 15 GHz, PBR140 / UBR140, 3ft. Requires one each AFLXV0002	Now	Accessories	Each	\$ 340.00
SIAE-Z13967T	Z13967T	Flexible Waveguide, 18-23GHz PBR220-PBR220, 3ft. Requires one each AFLXV0000	Now	Accessories	Each	\$ 340.00
1+1 Couplers (Not for ALFOPlus2/XG)						
CPLR-B-L6GHZ	V60216	Balanced Splitter for integrated antenna configuration, 4dB/4dB - 6L GHz	Now	Accessories	Terminal	\$ 550.00
CPLR-U-L6GHZ	V60217	Unbalanced Splitter for integrated antenna configuration, 1.7dB/7dB - 6L GHz	Now	Accessories	Terminal	\$ 550.00
CPLR-B-11GHZ	V60335	Balanced Splitter for integrated antenna configuration, 4dB/4dB - 11 GHz	Now	Accessories	Terminal	\$ 550.00
CPLR-U-11GHZ	V60125	Unbalanced Splitter for integrated antenna configuration, 1.7dB/7dB - 11 GHz	Now	Accessories	Terminal	\$ 550.00
CPLR-B-18GHZ	V60037	Balanced Splitter for integrated antenna configuration, 4dB/4dB - 18 GHz	Now	Accessories	Terminal	\$ 550.00

CPLR-U-18GHZ	V60038	Unbalanced Splitter for integrated antenna configuration, 1.7dB/7dB - 18 GHz	Now	Accessories	Terminal	\$	550.00
CPLR-B-23GHZ	V60039	Balanced Splitter for integrated antenna configuration, 4dB/4dB - 23 GHz	Now	Accessories	Terminal	\$	550.00
CPLR-U-23GHZ	V60040	Unbalanced Splitter for integrated antenna configuration, 1.7dB/7dB - 23 GHz	Now	Accessories	Terminal	\$	550.00
Grounding Kits							
SIAE-ICD00072F	ICD00072F	Grounding Kit for CAT5e Cable	Now	Accessories	Each	\$	20.00
SIAE-V42024L	V42024L	AGS20 Grounding Kit	Now	Accessories	Each	\$	15.00
SIAE-V42025L	V42025L	ODU Grounding Kit	Now	Accessories	Each	\$	70.00
Pole Mounting Kits & Indoor Mounting Kits							
SIAE-V60072	V60072	Pole Mounting Kit for Remote ODU-to-Antenna Mounting, 11 GHz, UBR100	Now	Accessories	Each	\$	110.00
SIAE-V60075	V60075	Pole Mounting Kit for Remote ODU-to-Antenna Mounting, 18 - 23 GHz, UBR220	Now	Accessories	Each	\$	110.00
SIAE-V60214	V60214	Pole Mounting Kit for Remote ODU-to-Antenna Mounting, 6 GHz, UDR70	Now	Accessories	Each	\$	110.00
SIAE-V60519	V60519	Pole Mounting Kit for Remote ODU-to-Antenna Mounting, Dual Waveguide, BU, 11 - 23 GHz	Now	Accessories	Each	\$	110.00
SIAE-V60578	V60578	Pole Mounting Kit for Remote ODU-to-Antenna Mounting, Dual Waveguide, BU, 6 - 8 GHz	Now	Accessories	Each	\$	110.00
SIAE-V60138	V60138	Indoor ODU Kit (for indoor ODU mounting with Waveguide Run)	Now	Accessories	Each	\$	130.00
Antenna Transition Kits							
SIAE-V60049-10	V60049-10	6-13 GHz Antenna Transition Kit (ALFOPlus, ALFOPlus1, ASNK ODUs)	Now	Accessories	Each	\$	10.00
SIAE-V60052-10	V60052-10	15-42 GHz Antenna Transition Kit (ALFOPlus, ALFOPlus1 ODUs)	Now	Accessories	Each	\$	10.00
SIAE-V32329	V32329	6-13 GHz Antenna Transition Kit, ALFOPlus2	Now	Accessories	Each	\$	10.00
SIAE-V32330	V32330	15-42 GHz Antenna Transition Kit, ALFOPlus2	Now	Accessories	Each	\$	10.00
SIAE-V60478	V60478	15-42 GHz Antenna Transition Kit (ASNK ODU)	Now	Accessories	Each	\$	10.00
80 GHz Polarization Kits							
SIAE-V60416	V60416	ALFOPlus80 & ALFOPlus80HD Polarization Kit	Now	Accessories	Each	\$	50.00
SIAE-V60707	V60707	ALFOPlus80HDX E-band Twist-Centering Kit	Now	Accessories	Each	\$	50.00
AGS20/ASNK Accessories							
SIAE-F21007	F21007	IF Cable Adapter, SMA-M to N-F, 3ft	Now	Accessories	Each	\$	25.00
SIAE-K09112A	K09112A	Surge Arrester for IF RG8 Cable	Now	Accessories	Each	\$	44.00
SIAE-P04184	P04184	DC Power Plug for AGS20	Now	Accessories	Each	\$	10.00
SIAE-Z21196	Z21196	DC Plug Single Connector Security Block. Required for single IF IDU.		Accessories	Each	\$	10.00
SIAE-Z21197	Z21197	DC Plug Double Connector Security Block. Required for Dual or Quad IF IDUs.		Accessories	Each	\$	10.00
Connectors							
SIAE-P04185	P04185	M12 Power Supply Connector	Now	Accessories	Each	\$	30.00
SIAE-P20032	P20032	RJ45 waterproof IP67 Connector (Amphenol)	Now	Accessories	Each	\$	20.00
SIAE-P20101	P20101	ALFOPlus2 RJ45 waterproof IP67 Connector (Rosenberger)	Now	Accessories	Each	\$	20.00
SIAE-J23599	J23599	Amphenol IP67 Connector Wrench	Now	Accessories	Each	\$	30.00
Miscellaneous							
AP-SS	AAAL00033	Solar Shield for ALFOPlus	Now	Accessories	Each	\$	25.00
SIAE-F03649	F03649	AP80HDX XPIC LAN3 ODU Interconnect CAT5 Cable	Now	Accessories	Each	\$	20.00
SIAE-F03696	F03696	AP80HDX XPIC ODU Interconnect CAT5 Cable	Now	Accessories	Each	\$	20.00
SIAE-F15479	F15479	AP80HDX XPIC ODU Interconnect Fiber Jumper Cable, (Multi Mode)	Now	Accessories	Each	\$	50.00
SIAE-F15484	F15484	AP80HDX XPIC ODU Interconnect Fiber Jumper Cable, (Single Mode)	Now	Accessories	Each	\$	50.00
SIAE-ICD001134	ICD001134	Indoor RJ45 Surge Arrester	Now	Accessories	Each	\$	200.00
SIAE-J24304	J24304	ALFOPlus1/2/80HD/80HDX RJ45 Extractor Tool	Now	Accessories	Each	\$	10.00
SIAE-V60540	V60540	ALFOPlus2 ODU to Antenna Support Bracket for Hybrid Branching Unit	Now	Accessories	Each	\$	95.00
SIAE-V60541	V60541	ALFOPlus2 ODU to Antenna Support Bracket for OMT Branching Unit, 11 - 23 GHz	Now	Accessories	Each	\$	95.00
SIAE-V60708	V60708	ALFOPlus2 6 GHz Waveguide Transformer, PDR84 to PDR70	Now	Accessories	Each	\$	50.00
SIAE-V60814	V60814	ALFOPlus2 ODU to Antenna Support Bracket for OMT Branching Unit, 6 - 8 GHz	Now	Accessories	Each	\$	95.00

Antennas

SF Product Name	Product Code	Vendor	Description	Availability	Product Family	Unit	LIST Price (\$)
6 GHz							

ANT-06GHZ-36-CIR	UF3EFN23A	Commscope	6 GHz Antenna, 3ft, Circular Flange, SIAE Direct Mount	Now	Antennas	Each	\$ 1,495.00
ANT-06GHZ-36-DP	UD3EFA23A	Commscope	6 GHz Antenna, 3ft, Dual Pole, w/integrated OMT, SIAE Direct Mount	Now	Antennas	Each	\$ 2,195.00
ANT-06GHZ-36-SP	UB3EFA23A	Commscope	6 GHz Antenna, 3ft, Single Pole SIAE Direct Mount	Now	Antennas	Each	\$ 1,265.00
ANT-06GHZ-36-WG	U43EFB05A	Commscope	6 GHz Antenna, 3ft, Single Pole, PDR70 Waveguide Interface	Now	Antennas	Each	\$ 1,400.00
ANT-06GHZ-36-WGDP	U53EFB23A	Commscope	6 GHz Antenna, 3ft, Dual Pole, PDR70 Waveguide Interface	Now	Antennas	Each	\$ 1,600.00
ANT-06GHZ-48-CIR	UF3FGN23A	Commscope	6 GHz Antenna, 4ft, Circular Flange, SIAE Direct Mount	Now	Antennas	Each	\$ 2,495.00
ANT-06GHZ-48-DP	UD3FGA23A	Commscope	6 GHz Antenna, 4ft, Dual Pole, w/integrated OMT, SIAE Direct Mount	Now	Antennas	Each	\$ 2,530.00
ANT-06GHZ-48-SP	UB3FGA23A	Commscope	6 GHz Antenna, 4ft, Single Pole SIAE Direct Mount	Now	Antennas	Each	\$ 1,850.00
ANT-06GHZ-48-WG	UD3FGA23A	Commscope	6 GHz Antenna, 4ft, Single Pole, PDR70 Waveguide Interface	Now	Antennas	Each	\$ 2,600.00
ANT-06GHZ-48-WGDP	U53FGB23A	Commscope	6 GHz Antenna, 4ft, Dual Pole, PDR70 Waveguide Interface	Now	Antennas	Each	\$ 2,700.00
ANT-06GHZ-72-CIR	UF3GFN23A	Commscope	6 GHz Antenna, 6ft, Circular Flange, SIAE Direct Mount	Now	Antennas	Each	\$ 4,900.00
ANT-06GHZ-72-DP	UD3GFA23A	Commscope	6 GHz Antenna, 6ft, Dual Pole, w/integrated OMT, SIAE Direct Mount	Now	Antennas	Each	\$ 5,200.00
ANT-06GHZ-72-SP	UB3GFA23A	Commscope	6 GHz Antenna, 6ft, Single Pole SIAE Direct Mount	Now	Antennas	Each	\$ 4,800.00
ANT-06GHZ-72-WG	UD3GFA23A	Commscope	6 GHz Antenna, 6ft, Single Pole, PDR70 Waveguide Interface	Now	Antennas	Each	\$ 4,800.00
ANT-06GHZ-72-WGDP	U53GFB23A	Commscope	6 GHz Antenna, 6ft, Dual Pole, PDR70 Waveguide Interface	Now	Antennas	Each	\$ 5,200.00
ANT-L6GHZ-96-WG	U4HICB00A	Commscope	L6 GHz Antenna, (5,7-6,4 GHz), 8ft, Single Pole, PDR70 Waveguide Interface	Special Order	Antennas	Each	\$ 7,300.00
ANT-L6GHZ-96-WGDP	U5HICB00A	Commscope	L6 GHz Antenna, (5,7-6,4 GHz), 8ft, Dual Pole, PDR70 Waveguide Interface	Special Order	Antennas	Each	\$ 9,200.00

ANT-U6GHZ-96-WG	U4IICB00A	Commscope	U6 GHz Antenna, (6,4-7,1 GHz), 8ft, Single Pole, PDR70 Waveguide Interface	Special Order	Antennas	Each	\$ 7,300.00
ANT-U6GHZ-96-WGDP	U5IICB00A	Commscope	U6 GHz Antenna, (6,4-7,1 GHz), 8ft, Dual Pole, PDR70 Waveguide Interface	Special Order	Antennas	Each	\$ 9,200.00
ANT-06GHZ-120-WG	U4IUCB00A	Commscope	6 GHz Antenna, 10ft, Single Pole SIAE Separate Mount	Special Order	Antennas	Each	\$ 9,500.00
ANT-06GHZ-120-WGDP	U5HJCB00A	Commscope	6 GHz Antenna, 10ft, Dual Pole, UBR/PBR70 Waveguide Interface	Special Order	Antennas	Each	\$ 10,575.00
ANT-06GHZ-144-WG	TBC	Commscope	6 GHz Antenna, 12ft, Single Pole SIAE Separate Mount	Special Order	Antennas	Each	\$ 13,200.00
ANT-06GHZ-144-WGDP	TBC	Commscope	6 GHz Antenna, 12ft, Dual Pole, UBR/PBR70 Waveguide Interface	Special Order	Antennas	Each	\$ 14,450.00
ANT-06GHZ-180-WG	TBC	Commscope	6 GHz Antenna, 15ft, Single Pole SIAE Separate Mount	Special Order	Antennas	Each	\$ 37,250.00
ANT-06GHZ-180-WGDP	TBC	Commscope	6 GHz Antenna, 15ft, Dual Pole, UBR/PBR70 Waveguide Interface	Special Order	Antennas	Each	\$ 38,450.00
7 GHz							
ANT-07GHZ-36-CIR	TBC	Commscope	7 GHz Antenna, 3ft, Circular Flange, SIAE Direct Mount	Now	Antennas	Each	\$ 1,495.00
ANT-07GHZ-36-SP	UBKEFB23A	Commscope	7 GHz Antenna, 3ft, Single Pole SIAE Direct Mount	Now	Antennas	Each	\$ 1,265.00
ANT-07GHZ-36-WG	U4KEFD23A	Commscope		70 Now	Antennas	Each	\$ 1,400.00
ANT-07GHZ-36-WGDP	U5KEFD05A	Commscope	7 GHz Antenna, 3ft, Dual Pole, PDR70 Waveguide Interface	Now	Antennas	Each	\$ 1,600.00
ANT-07GHZ-48-CIR	TBC	Commscope	7 GHz Antenna, 4ft, Circular Flange, SIAE Direct Mount	Now	Antennas	Each	\$ 2,495.00
ANT-07GHZ-48-SP	UBKFGB23A	Commscope	7 GHz Antenna, 4ft, Single Pole SIAE Direct Mount	Now	Antennas	Each	\$ 1,850.00
ANT-07GHZ-48-WG	U4KFGD23A	Commscope	7 GHz Antenna, 4ft, Single Pole, PDR70 Waveguide Interface	Now	Antennas	Each	\$ 2,600.00
ANT-07GHZ-48-WGDP	U5KFGD23A	Commscope	7 GHz Antenna, 4ft, Dual Pole, PDR70 Waveguide Interface	Now	Antennas	Each	\$ 2,700.00

ANT-07GHZ-72-CIR	TBC	Commscope	7 GHz Antenna, 6ft, Circular Flange, SIAE Direct Mount	Now	Antennas	Each	\$ 4,900.00
ANT-07GHZ-72-SP	UBKGFB23A	Commscope	7 GHz Antenna, 6ft, Single Pole SIAE Direct Mount	Now	Antennas	Each	\$ 4,800.00
ANT-07GHZ-72-WG	U4KGF23A	Commscope	7 GHz Antenna, 6ft, Single Pole, PDR70 Waveguide Interface	Now	Antennas	Each	\$ 4,800.00
ANT-07GHZ-72-WGDP	U5KGF09A	Commscope	7 GHz Antenna, 6ft, Dual Pole, PDR70 Waveguide Interface	Now	Antennas	Each	\$ 5,200.00
11 GHz							
ANT-11GHZ-24-CIR	UF5CFP23A	Commscope	11 GHz Antenna, 2ft, Dual Pole, Circular Flange, SIAE Direct Mount	Now	Antennas	Each	\$ 690.00
ANT-11GHZ-24-DP	U55CFF23A	Commscope	11 GHz Antenna, 2ft, Dual Pole, w/integrated OMT, SIAE Direct Mount	Now	Antennas	Each	\$ 1,295.00
ANT-11GHZ-24-SP	UB5CFC23A	Commscope	11 GHz Antenna, 2ft, Single Pole SIAE Direct Mount	Now	Antennas	Each	\$ 575.00
ANT-11GHZ-24-WG	U45CFT23A	Commscope	11 GHz Antenna, 2ft, Single Pole, PBR100 Waveguide Interface	Now	Antennas	Each	\$ 750.00
ANT-11GHZ-24-WGDP	U55CFH23A	Commscope	11 GHz Antenna, 2ft, Dual Pole, PBR100 Waveguide Interface	Now	Antennas	Each	\$ 1,000.00
ANT-11GHZ-36-CIR	UF5EFP23A	Commscope	11 GHz Antenna, 3ft, Dual Pole, Circular Flange, SIAE Direct Mount	Now	Antennas	Each	\$ 1,495.00
ANT-11GHZ-36-DP	UD5EFC23A	Commscope	11 GHz Antenna, 3ft, Dual Pole, w/integrated OMT, SIAE Direct Mount	Now	Antennas	Each	\$ 2,195.00
ANT-11GHZ-36-SP	UB5EFC23A	Commscope	11 GHz Antenna, 3ft, Single Pole SIAE Direct Mount	Now	Antennas	Each	\$ 1,265.00
ANT-11GHZ-36-WG	U45EFF05A	Commscope	11 GHz Antenna, 3ft, Single Pole, PBR100 Waveguide Interface	Now	Antennas	Each	\$ 1,400.00
ANT-11GHZ-36-WGDP	U55EFF23A	Commscope	11 GHz Antenna, 3ft, Dual Pole, PBR100 Waveguide Interface	Now	Antennas	Each	\$ 1,600.00
ANT-11GHZ-48-CIR	UF5FGP23A	Commscope	11 GHz Antenna, 4ft, Dual Pole, Circular Flange, SIAE Direct Mount	Now	Antennas	Each	\$ 2,495.00

ANT-11GHZ-48-DP	UD5FGC23A	Commscope	11 GHz Antenna, 4ft, Dual Pole, w/integrated OMT, SIAE Direct Mount	Now	Antennas	Each	\$ 2,530.00
ANT-11GHZ-48-SP	UB5FGC23A	Commscope	11 GHz Antenna, 4ft, Single Pole SIAE Direct Mount	Now	Antennas	Each	\$ 1,850.00
ANT-11GHZ-48-WG	U45FGT23A	Commscope	11 GHz Antenna, 4ft, Single Pole, PBR100 Waveguide Interface	Now	Antennas	Each	\$ 2,500.00
ANT-11GHZ-48-WGDP	U55FGF23A	Commscope	11 GHz Antenna, 4ft, Dual Pole, PBR100 Waveguide Interface	Now	Antennas	Each	\$ 2,700.00
ANT-11GHZ-72-CIR	UF5GFP23A	Commscope	11 GHz Antenna, 6ft, Dual Pole, Circular Flange, SIAE Direct Mount	Now	Antennas	Each	\$ 4,900.00
ANT-11GHZ-72-DP	TBC	Commscope	11 GHz Antenna, 6ft, Dual Pole, w/integrated OMT, SIAE Direct Mount	Now	Antennas	Each	\$ 5,200.00
ANT-11GHZ-72-SP	UB5GFC23A	Commscope	11 GHz Antenna, 6ft, Single Pole SIAE Direct Mount	Now	Antennas	Each	\$ 4,800.00
ANT-11GHZ-72-WG	U4PGFF05A	Commscope	11 GHz Antenna, 6ft, Single Pole, PBR100 Waveguide Interface	Now	Antennas	Each	\$ 4,800.00
ANT-11GHZ-72-WGDP	U5PGFF23A	Commscope	11 GHz Antenna, 6ft, Dual Pole, PBR100 Waveguide Interface	Now	Antennas	Each	\$ 5,200.00
ANT-11GHZ-96-WG	U4PICH00A	Commscope	11 GHz Antenna, 8ft, Single Pole, PBR100 Waveguide Interface	Special Order	Antennas	Each	\$ 7,300.00
ANT-11GHZ-96-WGDP	U5PICH00A	Commscope	11 GHz Antenna, 8ft, Dual Pole, PBR100 Waveguide Interface	Special Order	Antennas	Each	\$ 9,200.00
13 GHz							
ANT-13GHZ-12-CIR	TBC	Commscope	13 GHz Antenna, 1ft, Single Pole, High Performance, Circular Flange, SIAE Direct Mount, Radiowaves	Now	Antennas	Each	\$ 540.00
ANT-13GHZ-12-SP	TBC	Commscope	13 GHz Antenna, 1ft, Single Pole, High Performance, SIAE Direct Mount, Radiowaves	Now	Antennas	Each	\$ 640.00

ANT-13GHZ-24-CIR	TBC	Commscope	13 GHz Antenna, 2ft, Single Pole, High Performance, Circular Flange, SIAE Direct Mount, Radiowaves	Now	Antennas	Each	\$ 790.00
ANT-13GHZ-24-SP	TBC	Commscope	13 GHz Antenna, 2ft, Single Pole, High Performance, SIAE Direct Mount, Radiowaves	Now	Antennas	Each	\$ 950.00
ANT-13GHZ-36-CIR	TBC	Commscope	13 GHz Antenna, 3ft, Single Pole, High Performance, Circular Flange, SIAE Direct Mount, Radiowaves	Now	Antennas	Each	\$ 1,580.00
ANT-13GHZ-36-SP	TBC	Commscope	13 GHz Antenna, 3ft, Single Pole, High Performance, SIAE Direct Mount, Radiowaves	Now	Antennas	Each	\$ 1,820.00
ANT-13GHZ-48-CIR	TBC	Commscope	13 GHz Antenna, 4ft, Single Pole, High Performance, Circular Flange, SIAE Direct Mount, Radiowaves	Now	Antennas	Each	\$ 2,500.00
ANT-13GHZ-48-SP	TBC	Commscope	13 GHz Antenna, 4ft, Single Pole, High Performance, SIAE Direct Mount, Radiowaves	Now	Antennas	Each	\$ 2,440.00
ANT-13GHZ-72-CIR	TBC	Commscope	13 GHz Antenna, 6ft, Single Pole, High Performance, Circular Flange, SIAE Direct Mount, Radiowaves	Now	Antennas	Each	\$ 5,000.00
ANT-13GHZ-72-SP	TBC	Commscope	13 GHz Antenna, 6ft, Single Pole, High Performance, SIAE Direct Mount, Radiowaves	Now	Antennas	Each	\$ 5,200.00
18 GHz							
ANT-18GHZ-12-CIR	UFTBFS27A	Commscope	18 GHz Antenna, 1ft, Dual Pole, Circular Flange, SIAE Direct Mount	Now	Antennas	Each	\$ 520.00
ANT-18GHZ-12-DP	UDTBFH27A	Commscope	18 GHz Antenna, 1ft, Dual Pole, w/integrated OMT, SIAE Direct Mount	Now	Antennas	Each	\$ 1,195.00

ANT-18GHZ-12-SP	UBTBFH27A	Commscope	18 GHz Antenna, 1ft, Single Pole SIAE Direct Mount	Now	Antennas	Each	\$ 415.00
ANT-18GHZ-12-WG	U4TBFS27A	Commscope	18 GHz Antenna, 1ft, Single Pole, PBR220 Waveguide Interface	Now	Antennas	Each	\$ 700.00
ANT-18GHZ-12-WGDP	U5TBFT27A	Commscope	18 GHz Antenna, 1ft, Dual Pole, PBR220 Waveguide Interface	Now	Antennas	Each	\$ 800.00
ANT-18GHZ-24-CIR	UFTCF23A	Commscope	18 GHz Antenna, 2ft, Dual Pole, Circular Flange, SIAE Direct Mount	Now	Antennas	Each	\$ 690.00
ANT-18GHZ-24-DP	UDTCFH23A	Commscope	18 GHz Antenna, 2ft, Dual Pole, w/integrated OMT, SIAE Direct Mount	Now	Antennas	Each	\$ 1,295.00
ANT-18GHZ-24-SP	UBTCFH23A	Commscope	18 GHz Antenna, 2ft, Single Pole SIAE Direct Mount	Now	Antennas	Each	\$ 575.00
ANT-18GHZ-24-WG	U4TCFT23A	Commscope	18 GHz Antenna, 2ft, Single Pole, PBR220 Waveguide Interface	Now	Antennas	Each	\$ 750.00
ANT-18GHZ-24-WGDP	U5TCFT23A	Commscope	18 GHz Antenna, 2ft, Dual Pole, PBR220 Waveguide Interface	Now	Antennas	Each	\$ 1,000.00
ANT-18GHZ-36-CIR	UFTEFS23A	Commscope	18 GHz Antenna, 3ft, Dual Pole, Circular Flange, SIAE Direct Mount	Now	Antennas	Each	\$ 1,495.00
ANT-18GHZ-36-DP	UDTEFH23A	Commscope	18 GHz Antenna, 3ft, Dual Pole, w/integrated OMT, SIAE Direct Mount	Now	Antennas	Each	\$ 2,195.00
ANT-18GHZ-36-SP	UBTEFH23A	Commscope	18 GHz Antenna, 3ft, Single Pole SIAE Direct Mount	Now	Antennas	Each	\$ 1,265.00
ANT-18GHZ-36-WG	U4TEFT23A	Commscope	18 GHz Antenna, 3ft, Single Pole, PBR220 Waveguide Interface	Now	Antennas	Each	\$ 1,400.00
ANT-18GHZ-36-WGDP	U5TEFT23A	Commscope	18 GHz Antenna, 3ft, Dual Pole, PBR220 Waveguide Interface	Now	Antennas	Each	\$ 1,600.00
ANT-18GHZ-36-WGDPW	TBC	Radiowaves	18 GHz Antenna, 3ft, Dual Pole, High Performance, WR42 Flange, Radiowaves	Now	Antennas	Each	\$ 1,820.00
ANT-18GHZ-48-CIR	UFTFGS23A	Commscope	18 GHz Antenna, 4ft, Dual Pole, Circular Flange, SIAE Direct Mount	Now	Antennas	Each	\$ 2,495.00

ANT-18GHZ-48-DP	UDTFGH23A	Commscope	18 GHz Antenna, 4ft, Dual Pole, w/integrated OMT, SIAE Direct Mount	Now	Antennas	Each	\$ 2,530.00
ANT-18GHZ-48-SP	UBTFGH23A	Commscope	18 GHz Antenna, 4ft, Single Pole SIAE Direct Mount	Now	Antennas	Each	\$ 1,850.00
ANT-18GHZ-48-WG	U4TFGT23A	Commscope	18 GHz Antenna, 4ft, Single Pole, PBR220 Waveguide Interface	Now	Antennas	Each	\$ 2,500.00
ANT-18GHZ-48-WGDP	U5TFGT23A	Commscope	18 GHz Antenna, 4ft, Dual Pole, PBR220 Waveguide Interface	Now	Antennas	Each	\$ 2,700.00
ANT-18GHZ-72-CIR	UFTGFS23A	Commscope	18 GHz Antenna, 6ft, Dual Pole, Circular Flange, SIAE Direct Mount	Now	Antennas	Each	\$ 4,900.00
ANT-18GHZ-72-DP	UDTGFH23A	Commscope	18 GHz Antenna, 6ft, Dual Pole, w/integrated OMT, SIAE Direct Mount	Now	Antennas	Each	\$ 5,200.00
ANT-18GHZ-72-SP	UBTGFH23A	Commscope	18 GHz Antenna, 6ft, Single Pole SIAE Direct Mount	Now	Antennas	Each	\$ 4,800.00
ANT-18GHZ-72-WG	U4TGFT23A	Commscope	18 GHz Antenna, 6ft, Single Pole, PBR220 Waveguide Interface	Now	Antennas	Each	\$ 4,800.00
ANT-18GHZ-72-WGDP	U5TGFT23A	Commscope	18 GHz Antenna, 6ft, Dual Pole, PBR220 Waveguide Interface	Now	Antennas	Each	\$ 5,200.00
23 GHz							
ANT-23GHZ-12-CIR	UFUBFT27A	Commscope	23 GHz Antenna, 1ft, Dual Pole, Circular Flange, SIAE Direct Mount	Now	Antennas	Each	\$ 520.00
ANT-23GHZ-12-DP	UDUBFH27A	Commscope	23 GHz Antenna, 1ft, Dual Pole, w/integrated OMT, SIAE Direct Mount	Now	Antennas	Each	\$ 1,195.00
ANT-23GHZ-12-SP	UBUBFH27A	Commscope	23 GHz Antenna, 1ft, Single Pole SIAE Direct Mount	Now	Antennas	Each	\$ 415.00
ANT-23GHZ-12-WG	U4UBFT27A	Commscope	23 GHz Antenna, 1ft, Single Pole, PBR220 Waveguide Interface	Now	Antennas	Each	\$ 700.00
ANT-23GHZ-12-WGDP	U5UBFT27A	Commscope	23 GHz Antenna, 1ft, Dual Pole, PBR220 Waveguide Interface	Now	Antennas	Each	\$ 800.00
ANT-23GHZ-24-CIR	UFUCFT23A	Commscope	23 GHz Antenna, 2ft, Dual Pole, Circular Flange, SIAE Direct Mount	Now	Antennas	Each	\$ 690.00

ANT-23GHZ-24-DP	UDUCFH23A	Commscope	23 GHz Antenna, 2ft, Dual Pole, w/integrated OMT, SIAE Direct Mount	Now	Antennas	Each	\$ 1,295.00
ANT-23GHZ-24-SP	UBUCFH23A	Commscope	23 GHz Antenna, 2ft, Single Pole SIAE Direct Mount	Now	Antennas	Each	\$ 575.00
ANT-23GHZ-24-WG	U4UCFT23A	Commscope	23 GHz Antenna, 2ft, Single Pole, PBR220 Waveguide Interface	Now	Antennas	Each	\$ 750.00
ANT-23GHZ-24-WGDP	U5UCFT23A	Commscope	23 GHz Antenna, 2ft, Dual Pole, PBR220 Waveguide Interface	Now	Antennas	Each	\$ 1,000.00
ANT-23GHZ-24-WGDPW	TBC	Radiowaves	23 GHz Antenna, 2ft, Dual Pole, High Performance, WR42 Flange, SIAE Direct Mount, Radiowaves	Now	Antennas	Each	\$ 950.00
ANT-23GHZ-36-CIR	UFUEFT23A	Commscope	23 GHz Antenna, 3ft, Dual Pole, Circular Flange, SIAE Direct Mount	Now	Antennas	Each	\$ 1,495.00
ANT-23GHZ-36-DP	UDUEFH23A	Commscope	23 GHz Antenna, 3ft, Dual Pole, w/integrated OMT, SIAE Direct Mount	Now	Antennas	Each	\$ 2,195.00
ANT-23GHZ-36-SP	UBUEFH23A	Commscope	23 GHz Antenna, 3ft, Single Pole SIAE Direct Mount	Now	Antennas	Each	\$ 1,265.00
ANT-23GHZ-36-WG	U4UEFT23A	Commscope	23 GHz Antenna, 3ft, Single Pole, PBR220 Waveguide Interface	Now	Antennas	Each	\$ 1,400.00
ANT-23GHZ-36-WGW	TBC	Radiowaves	23 GHz Antenna, 3ft, Single Pole, High Performance, WR42 Flange, SIAE Direct Mount, Radiowaves	Now	Antennas	Each	\$ 1,580.00
ANT-23GHZ-36-WGDP	U5UEFT23A	Commscope	23 GHz Antenna, 3ft, Dual Pole, PBR220 Waveguide Interface	Now	Antennas	Each	\$ 1,600.00
ANT-23GHZ-48-CIR	UFUFGT23A	Commscope	23 GHz Antenna, 4ft, Dual Pole, Circular Flange, SIAE Direct Mount	Now	Antennas	Each	\$ 2,495.00
ANT-23GHZ-48-DP	UDUFGH23A	Commscope	23 GHz Antenna, 4ft, Dual Pole, w/integrated OMT, SIAE Direct Mount	Now	Antennas	Each	\$ 2,530.00
ANT-23GHZ-48-SP	UBUFGH23A	Commscope	23 GHz Antenna, 4ft, Single Pole SIAE Direct Mount	Now	Antennas	Each	\$ 1,850.00

ANT-23GHZ-48-WG	U4UFGT23A	Commscope	23 GHz Antenna, 4ft, Single Pole, PBR220 Waveguide Interface	Now	Antennas	Each	\$ 2,500.00
ANT-23GHZ-48-WGDP	U5UFGT23A	Commscope	23 GHz Antenna, 4ft, Dual Pole, PBR220 Waveguide Interface	Now	Antennas	Each	\$ 2,700.00
ANT-23GHZ-72-CIR	TBC	Commscope	23 GHz Antenna, 6ft, Dual Pole, Circular Flange, SIAE Direct Mount	Now	Antennas	Each	\$ 4,900.00
ANT-23GHZ-72-DP	TBC	Commscope	23 GHz Antenna, 6ft, Dual Pole, w/integrated OMT, SIAE Direct Mount	Now	Antennas	Each	\$ 5,200.00
ANT-23GHZ-72-SP	TBC	Commscope	23 GHz Antenna, 6ft, Single Pole SIAE Direct Mount	Now	Antennas	Each	\$ 4,800.00
ANT-23GHZ-72-WG	TBC	Commscope	23 GHz Antenna, 6ft, Single Pole, PBR220 Waveguide Interface	Now	Antennas	Each	\$ 4,800.00
ANT-23GHZ-72-WGDP	TBC	Commscope	23 GHz Antenna, 6ft, Dual Pole, PBR220 Waveguide Interface	Now	Antennas	Each	\$ 5,200.00
24 GHz							
ANT-24GHZ-12-SP	TBC	RFS	24 GHz Antenna, 1ft, Single Pole SIAE Direct Mount, RFS	Now	Antennas	Each	\$ 415.00
ANT-24GHZ-12-SPS	UBUBGG00S	Shenglu	24 GHz Antenna, 1ft, Single Pole SIAE Direct Mount, Shenglu	Now	Antennas	Each	\$ 240.00
80 GHz							
ANT-80GHZ-12-SP	UE6BNM24R	RFS	Antenna, 80 GHz, 1ft Single Pole, SIAE Direct Mount, RFS	Special Order	Antennas	Each	\$ 795.00
ANT-80GHZ-24-SP	UE6CLM00R	RFS	Antenna, 80 GHz, 2ft Single Pole, SIAE Direct Mount, RFS	Special Order	Antennas	Each	\$ 995.00
ANT-80GHZ-12-SPC	UE6BFM24A	Commscope	Antenna, 80 GHz, 1ft Single Pole, SIAE Direct Mount, Commscope	Feb 2020	Antennas	Each	\$ 795.00
ANT-80GHZ-24-SPC	UE6CFM23A	Commscope	Antenna, 80 GHz, 2ft Single Pole, SIAE Direct Mount, Commscope	Feb 2020	Antennas	Each	\$ 995.00
ANT-80GHZ-12-SPS	UE6BGM00S	Shenglu	Antenna, 80 GHz, 1ft Single Pole, SIAE Direct Mount, Shenglu	Now	Antennas	Each	\$ 400.00

ANT-80GHZ-24-SPS	UE6CGM00S	Shenglu	Antenna, 80 GHz, 2ft Single Pole, SIAE Direct Mount, Shenglu	Now	Antennas	Each	\$ 480.00
ANT-80GHZ-12-DPS	UH6BGM00S	Shenglu	Antenna, 80 GHz, 1ft Dual Pole, integrated OMT, SIAE Direct Mount, Shenglu	Now	Antennas	Each	\$ 1,000.00
ANT-80GHZ-24-DPS	UH6CGM00S	Shenglu	Antenna, 80 GHz, 2ft Dual Pole, integrated OMT, SIAE Direct Mount, Shenglu	Now	Antennas	Each	\$ 1,200.00
Multi-Band Link Antennas							
ANT-18/80GHZ-24	UI0CR034M	MTI	Antenna, MBL Dual-Band, 18/80 GHz, 2ft, High Performance	Mar 2019	Antennas	Each	\$ 1,800.00
SIAE-V60828	V60828	SIAE	Angular Adapter for MTI MBL 18/80 GHz Antenna for use with 80HDX + AP2-18	Mar 2019	Antennas	Each	\$ 300.00
ANT-23/80GHZ-24	UI0CR035M	MTI	Antenna, MBL Dual-Band, 23/80 GHz, 2ft, High Performance	Mar 2019	Antennas	Each	\$ 1,800.00
SIAE-V60825	V60825	SIAE	Angular Adapter for MTI MBL 23/80 GHz Antenna for use with 80HDX + AP2-23	Mar 2019	Antennas	Each	\$ 300.00
Antenna Adapter Plates - DW to SIAE -CIR							
ADPT-11-DW1A-CIR	U900210A	SIAE	Adapter, Antenna, DW1A to SIAE Circular for AP2 radio, 11 GHz	Apr 2019	Antennas	Each	\$ 600.00
ADPT-18-DW1A-CIR	U900211A	SIAE	Adapter, Antenna, DW1A to SIAE Circular for AP2 radio, 18 GHz	Apr 2019	Antennas	Each	\$ 600.00
ADPT-23-DW1A-CIR	U900212A	SIAE	Adapter, Antenna, DW1A to SIAE Circular for AP2 radio, 23 GHz	Apr 2019	Antennas	Each	\$ 600.00
COMMSCOPE SWAY BARS / SUPPORT ARM ACCESSORIES							
SIAE-U900058A	U900058A	Commscope	Antenna Sway Bar, 0.9m for Commscope VHLP3 antennas	Now	Antennas	Each	\$ 220.00
SIAE-U900041A	U900041A	Commscope	Antenna Sway Bar, 1.2m & 1.8m for Commscope VHLP4 and VHLP6 antennas	Now	Antennas	Each	\$ 480.00
RFS SUPPORT ARM ACCESSORIES							
SIAE-U900094R	U900094R	RFS	Antenna Sway Bar, 0.9m	Now	Antennas	Each	\$ 220.00

SIAE-U900084R	U900084R	RFS	Antenna Sway Bar, 1.2m	Now	Antennas	Each	\$ 245.00
SIAE-U900095R	U900095R	RFS	Antenna Sway Bar, 1.8m	Now	Antennas	Each	\$ 520.00
SIAE-U900027R	U900027R	RFS	Antenna Sway Bar 2.4m-4m	Now	Antennas	Each	\$ 625.00
SIAE-U900083R	U900083R	RFS	Sway Bar Connecting Kit, Universal, 3ft & 4ft dia	Now	Antennas	Each	\$ 235.00
SIAE-U900092R	U900092R	RFS	Sway Bar Connecting Kit, Universal, 6ft to 15ft dia	Now	Antennas	Each	\$ 235.00

Network Management System

Effective Date:4-15-2021

SF Product Name	SIAE Product Code	Description	Availability	Product Family	Unit	LIST Price (\$)
NMS5-SW Platform						
WebLCT	WebLCT_001	WebLCT - Local Craft Terminal (Web Based)	Now	NMS	WebLCT	FOC
NMS_000	NMS_000	NMS_Basic Software Licence for 50 Network elements	Now	NMS	NMS Platform	\$ 10,000.00
NMS_001	NMS_001	NMS_Basic Software Licence for 100 Network elements	Now	NMS	NMS Platform	\$ 20,000.00
NMS_002	NMS_002	NMS_Basic Software Licence for 500 Network elements	Now	NMS	NMS Platform	\$ 50,000.00
NMS_003	NMS_003	NMS_Basic Software Licence for 1,000 Network elements	Now	NMS	NMS Platform	\$ 70,000.00
NMS_004	NMS_004	NMS_Basic Software Licence for 5,000 Network elements	Now	NMS	NMS Platform	\$ 100,000.00
NMS_005	NMS_005	NMS_Basic Software Licence for 10,000 Network elements	Now	NMS	NMS Platform	\$ 200,000.00
NMS_006	NMS_006	NMS_Basic Software Licence for 15,000 Network elements	Now	NMS	NMS Platform	\$ 300,000.00
NMS5 - SW Application Licences						
NMS_007	NMS_007	IP Radio License	Now	NMS	SW Licence	\$ 10,000.00
NMS5 - SW Additional Licences						
NMS_008	NMS_008	SNMP Proxy Agent for Alarm Export	Now	NMS	SW Licence	\$ 30,000.00
NMS_009	NMS_009	NBI for PerfMon Data Export	Now	NMS	SW Licence	\$ 30,000.00
NMS_010	NMS_010	NBI for QoS Data Export	Now	NMS	SW Licence	\$ 30,000.00
NMS_011	NMS_011	Dual Server Configuration	Now	NMS	SW Licence	\$ 50,000.00
NMS_012	NMS_012	Geographical Redundancy	Now	NMS	SW Licence	\$ 30,000.00
NMS_013	NMS_013	Additional User License (from 2 to 50)	Now	NMS	SW Licence	\$ 1,000.00
NMS5 - Third Party Licences						
NMS_ORCL_DB	NMS_ORCL_DB	Oracle DB Licence	Now	NMS	SW Licence	\$ 5,000.00
NMS_ORCL_GB	NMS_ORCL_GB	Go-Global Licence (one for each Simultaneous User)	Now	NMS	SW Licence	\$ 3,000.00
NMS5 - Annual Maintenance Fee						
NMS_000-AM	NMS_000-AM	Annual Maintenance Fee for NMS5 for 50 Network elements	Now	NMS	SW Licence	\$ 500.00
NMS_001-AM	NMS_001-AM	Annual Maintenance Fee for NMS5 for 100 Network elements	Now	NMS	SW Licence	\$ 1,000.00
NMS_002-AM	NMS_002-AM	Annual Maintenance Fee for NMS5 for 500 Network elements	Now	NMS	SW Licence	\$ 2,500.00
NMS_003-AM	NMS_003-AM	Annual Maintenance Fee for NMS5 for 1,000 Network elements	Now	NMS	SW Licence	\$ 3,500.00
NMS_004-AM	NMS_004-AM	Annual Maintenance Fee for NMS5 for 5,000 Network elements	Now	NMS	SW Licence	\$ 5,000.00
NMS_005-AM	NMS_005-AM	Annual Maintenance Fee for NMS5 for 10,000 Network elements	Now	NMS	SW Licence	\$ 10,000.00
NMS_006-AM	NMS_006-AM	Annual Maintenance Fee for NMS5 for 50,000 Network elements	Now	NMS	SW Licence	\$ 15,000.00

Extended Warranties

Effective Date:4-15-2021

SF Product Name	SIAE Product Code	Description	Availability	Product Family	Unit	LIST Price (\$)
AGS20-EXTWAR-12	Extended_Warranty	AGS20 Extended Warranty for one additional year (12 months)	Now	Warranty	Link	\$ 590.00

AGS20-EXTWAR-24	Extended_Warranty	AGS20 Extended Warranty for two additional years (24 months)	Now	Warranty	Link	\$ 1,125.00
AGS20-EXTWAR-36	Extended_Warranty	AGS20 Extended Warranty for three additional years (36 months)	Now	Warranty	Link	\$ 1,600.00
AGS20-EXTWAR-48	Extended_Warranty	AGS20 Extended Warranty for four additional years (48 months)	Now	Warranty	Link	\$ 2,015.00
AGS20-EXTWAR-60	Extended_Warranty	AGS20 Extended Warranty for five additional years (60 months)	Now	Warranty	Link	\$ 2,370.00
AGS20-EXWER-12	Extended_Warranty	AGS20 add Emergency Replacement for one year (12 months). Must be covered by active warranty.	Now	Warranty	Link	\$ 1,170.00
AGS20-EXWER-24	Extended_Warranty	AGS20 Extended Warranty including Emergency Replacement for two years (24 months)	Now	Warranty	Link	\$ 2,140.00
AGS20-EXWER-36	Extended_Warranty	AGS20 Extended Warranty including Emergency Replacement for three years (36 months)	Now	Warranty	Link	\$ 3,035.00
AGS20-EXWER-48	Extended_Warranty	AGS20 Extended Warranty including Emergency Replacement for four years (48 months)	Now	Warranty	Link	\$ 3,810.00
AGS20-EXWER-60	Extended_Warranty	AGS20 Extended Warranty including Emergency Replacement for five years (60 months)	Now	Warranty	Link	\$ 4,470.00
AP1-EXTWAR-12	Extended_Warranty	ALFOPlus1 Extended Warranty for one additional year (12 months)	Now	Warranty	Link	\$ 875.00
AP1-EXTWAR-24	Extended_Warranty	ALFOPlus1 Extended Warranty for two additional years (24 months)	Now	Warranty	Link	\$ 1,665.00
AP1-EXTWAR-36	Extended_Warranty	ALFOPlus1 Extended Warranty for three additional years (36 months)	Now	Warranty	Link	\$ 2,365.00
AP1-EXTWAR-48	Extended_Warranty	ALFOPlus1 Extended Warranty for four additional years (48 months)	Now	Warranty	Link	\$ 2,980.00
AP1-EXTWAR-60	Extended_Warranty	ALFOPlus1 Extended Warranty for five additional years (60 months)	Now	Warranty	Link	\$ 3,505.00
AP1-EXWER-12	Extended_Warranty	ALFOPlus1 add Emergency Replacement for one year (12 months). Must be covered by active warranty.	Now	Warranty	Link	\$ 1,925.00
AP1-EXWER-24	Extended_Warranty	ALFOPlus1 Extended Warranty including Emergency Replacement for two years (24 months)	Now	Warranty	Link	\$ 3,750.00
AP1-EXWER-36	Extended_Warranty	ALFOPlus1 Extended Warranty including Emergency Replacement for three years (36 months)	Now	Warranty	Link	\$ 5,320.00
AP1-EXWER-48	Extended_Warranty	ALFOPlus1 Extended Warranty including Emergency Replacement for four years (48 months)	Now	Warranty	Link	\$ 6,665.00
AP1-EXWER-60	Extended_Warranty	ALFOPlus1 Extended Warranty including Emergency Replacement for five years (60 months)	Now	Warranty	Link	\$ 7,815.00
AP2-EXTWAR-12	Extended_Warranty	ALFOPlus2 Extended Warranty for one additional year (12 months)	Now	Warranty	Link	\$ 1,275.00
AP2-EXTWAR-24	Extended_Warranty	ALFOPlus2 Extended Warranty for two additional years (24 months)	Now	Warranty	Link	\$ 2,425.00
AP2-EXTWAR-36	Extended_Warranty	ALFOPlus2 Extended Warranty for three additional years (36 months)	Now	Warranty	Link	\$ 3,445.00
AP2-EXTWAR-48	Extended_Warranty	ALFOPlus2 Extended Warranty for four additional years (48 months)	Now	Warranty	Link	\$ 4,340.00
AP2-EXTWAR-60	Extended_Warranty	ALFOPlus2 Extended Warranty for five additional years (60 months)	Now	Warranty	Link	\$ 5,105.00
AP2-EXWER-12	Extended_Warranty	ALFOPlus2 add Emergency Replacement for one year (12 months). Must be covered by active warranty.	Now	Warranty	Link	\$ 2,000.00
AP2-EXWER-24	Extended_Warranty	ALFOPlus2 Extended Warranty including Emergency Replacement for two years (24 months)	Now	Warranty	Link	\$ 4,135.00
AP2-EXWER-36	Extended_Warranty	ALFOPlus2 Extended Warranty including Emergency Replacement for three years (36 months)	Now	Warranty	Link	\$ 5,860.00
AP2-EXWER-48	Extended_Warranty	ALFOPlus2 Extended Warranty including Emergency Replacement for four years (48 months)	Now	Warranty	Link	\$ 7,350.00
AP2-EXWER-60	Extended_Warranty	ALFOPlus2 Extended Warranty including Emergency Replacement for five years (60 months)	Now	Warranty	Link	\$ 8,615.00
AP80-ER24H	Extended_Warranty	ALFOPlus80/80HD/80HDX 24 Hour Emergency Replacement for one year (12 months)	Now	Warranty	Link	\$ 1,000.00
AP80HD-ER24H	Extended_Warranty	ALFOPlus80/80HD/80HDX 24 Hour Emergency Replacement for one year (12 months)	Now	Warranty	Link	\$ 1,000.00
AP80HD-EXTWAR-12	Extended_Warranty	ALFOPlus 80HD Extended Warranty for one additional year (12 months)	Now	Warranty	Link	\$ 720.00
AP80HD-EXTWAR-24	Extended_Warranty	ALFOPlus 80HD Extended Warranty for two additional years (24 months)	Now	Warranty	Link	\$ 1,365.00
AP80HD-EXTWAR-36	Extended_Warranty	ALFOPlus 80HD Extended Warranty for three additional years (36 months)	Now	Warranty	Link	\$ 1,945.00
AP80HD-EXTWAR-48	Extended_Warranty	ALFOPlus 80HD Extended Warranty for four additional years (48 months)	Now	Warranty	Link	\$ 2,445.00
AP80HD-EXTWAR-60	Extended_Warranty	ALFOPlus 80HD Extended Warranty for five additional years (60 months)	Now	Warranty	Link	\$ 2,880.00
AP80HD-EXWER-12	Extended_Warranty	ALFOPlus 80HD Extended Warranty including Emergency Replacement for one year (12 months)	Now	Warranty	Link	\$ 1,720.00
AP80HD-EXWER-24	Extended_Warranty	ALFOPlus 80HD Extended Warranty including Emergency Replacement for two years (24 months)	Now	Warranty	Link	\$ 3,365.00
AP80HD-EXWER-36	Extended_Warranty	ALFOPlus 80HD Extended Warranty including Emergency Replacement for three years (36 months)	Now	Warranty	Link	\$ 4,945.00
AP80HD-EXWER-48	Extended_Warranty	ALFOPlus 80HD Extended Warranty including Emergency Replacement for four years (48 months)	Now	Warranty	Link	\$ 6,445.00
AP80HD-EXWER-60	Extended_Warranty	ALFOPlus 80HD Extended Warranty including Emergency Replacement for five years (60 months)	Now	Warranty	Link	\$ 7,880.00
AP80HDX-EXTWAR-12	Extended_Warranty	ALFOPlus 80HD Extended Warranty for one additional year (12 months)	Now	Warranty	Link	\$ 1,160.00
AP80HDX-EXTWAR-24	Extended_Warranty	ALFOPlus 80HD Extended Warranty for two additional years (24 months)	Now	Warranty	Link	\$ 2,205.00
AP80HDX-EXTWAR-36	Extended_Warranty	ALFOPlus 80HD Extended Warranty for three additional years (36 months)	Now	Warranty	Link	\$ 3,130.00
AP80HDX-EXTWAR-48	Extended_Warranty	ALFOPlus 80HD Extended Warranty for four additional years (48 months)	Now	Warranty	Link	\$ 3,945.00
AP80HDX-EXTWAR-60	Extended_Warranty	ALFOPlus 80HD Extended Warranty for five additional years (60 months)	Now	Warranty	Link	\$ 4,640.00
AP80HDX-EXWER-12	Extended_Warranty	ALFOPlus 80HD Extended Warranty including Emergency Replacement for one year (12 months)	Now	Warranty	Link	\$ 2,160.00
AP80HDX-EXWER-24	Extended_Warranty	ALFOPlus 80HD Extended Warranty including Emergency Replacement for two years (24 months)	Now	Warranty	Link	\$ 4,205.00
AP80HDX-EXWER-36	Extended_Warranty	ALFOPlus 80HD Extended Warranty including Emergency Replacement for three years (36 months)	Now	Warranty	Link	\$ 6,130.00

AP80HDX-EXWER-48	Extended_Warranty	ALFOPlus 80HD Extended Warranty including Emergency Replacement for four years (48 months)	Now	Warranty	Link	\$ 7,945.00
AP80HDX-EXWER-60	Extended_Warranty	ALFOPlus 80HD Extended Warranty including Emergency Replacement for five years (60 months)	Now	Warranty	Link	\$ 9,640.00
APMW-EXTWAR-12	Extended_Warranty	ALFOPlus Extended Warranty for one additional year (12 months)	Now	Warranty	Link	\$ 555.00
APMW-EXTWAR-24	Extended_Warranty	ALFOPlus Extended Warranty for two additional years (24 months)	Now	Warranty	Link	\$ 1,055.00
APMW-EXTWAR-36	Extended_Warranty	ALFOPlus Extended Warranty for three additional years (36 months)	Now	Warranty	Link	\$ 1,500.00
APMW-EXTWAR-48	Extended_Warranty	ALFOPlus Extended Warranty for four additional years (48 months)	Now	Warranty	Link	\$ 1,890.00
APMW-EXTWAR-60	Extended_Warranty	ALFOPlus Extended Warranty for five additional years (60 months)	Now	Warranty	Link	\$ 2,225.00
APMW-EXWER-12	Extended_Warranty	ALFOPlus add Emergency Replacement for one year (12 months). Must be covered by active warranty.	Now	Warranty	Link	\$ 1,850.00
APMW-EXWER-24	Extended_Warranty	ALFOPlus Extended Warranty including Emergency Replacement for two years (24 months)	Now	Warranty	Link	\$ 3,360.00
APMW-EXWER-36	Extended_Warranty	ALFOPlus Extended Warranty including Emergency Replacement for three years (36 months)	Now	Warranty	Link	\$ 4,765.00
APMW-EXWER-48	Extended_Warranty	ALFOPlus Extended Warranty including Emergency Replacement for four years (48 months)	Now	Warranty	Link	\$ 5,980.00
APMW-EXWER-60	Extended_Warranty	ALFOPlus Extended Warranty including Emergency Replacement for five years (60 months)	Now	Warranty	Link	\$ 7,015.00
AGS20-M-EXTWAR-12	Extended_Warranty	AGS20-M Extended Warranty for one additional year (12 months)	Now	Warranty	Link	\$ 640.00
AGS20-M-EXTWAR-24	Extended_Warranty	AGS20-M Extended Warranty for two additional years (24 months)	Now	Warranty	Link	\$ 1,215.00
AGS20-M-EXTWAR-36	Extended_Warranty	AGS20-M Extended Warranty for three additional years (36 months)	Now	Warranty	Link	\$ 1,725.00
AGS20-M-EXTWAR-48	Extended_Warranty	AGS20-M Extended Warranty for four additional years (48 months)	Now	Warranty	Link	\$ 2,175.00
AGS20-M-EXTWAR-60	Extended_Warranty	AGS20-M Extended Warranty for five additional years (60 months)	Now	Warranty	Link	\$ 2,555.00
AGS20-L-EXTWAR-12	Extended_Warranty	AGS20-L Extended Warranty for one additional year (12 months)	Now	Warranty	Link	\$ 790.00
AGS20-L-EXTWAR-24	Extended_Warranty	AGS20-L Extended Warranty for two additional years (24 months)	Now	Warranty	Link	\$ 1,500.00
AGS20-L-EXTWAR-36	Extended_Warranty	AGS20-L Extended Warranty for three additional years (36 months)	Now	Warranty	Link	\$ 2,130.00
AGS20-L-EXTWAR-48	Extended_Warranty	AGS20-L Extended Warranty for four additional years (48 months)	Now	Warranty	Link	\$ 2,680.00
AGS20-L-EXTWAR-60	Extended_Warranty	AGS20-L Extended Warranty for five additional years (60 months)	Now	Warranty	Link	\$ 3,155.00
AGS20-L-EXWER-12	Extended_Warranty	AGS20-L add Emergency Replacement for one year (12 months). Must be covered by active warranty.	Now	Warranty	Link	\$ 1,970.00
AGS20-L-EXWER-24	Extended_Warranty	AGS20-L Extended Warranty including Emergency Replacement for two years (24 months)	Now	Warranty	Link	\$ 3,745.00
AGS20-L-EXWER-36	Extended_Warranty	AGS20-L Extended Warranty including Emergency Replacement for three years (36 months)	Now	Warranty	Link	\$ 5,325.00
AGS20-L-EXWER-48	Extended_Warranty	AGS20-L Extended Warranty including Emergency Replacement for four years (48 months)	Now	Warranty	Link	\$ 6,705.00
AGS20-L-EXWER-60	Extended_Warranty	AGS20-L Extended Warranty including Emergency Replacement for five years (60 months)	Now	Warranty	Link	\$ 7,890.00
ASN-EXTWAR-12	Extended_Warranty	ASN-ODU Extended Warranty for one additional year (12 months)	Now	Warranty	Link	\$ 280.00
ASN-EXTWAR-24	Extended_Warranty	ASN-ODU Extended Warranty for two additional years (24 months)	Now	Warranty	Link	\$ 530.00
ASN-EXTWAR-36	Extended_Warranty	ASN-ODU Extended Warranty for three additional years (36 months)	Now	Warranty	Link	\$ 755.00
ASN-EXTWAR-48	Extended_Warranty	ASN-ODU Extended Warranty for four additional years (48 months)	Now	Warranty	Link	\$ 950.00
ASN-EXTWAR-60	Extended_Warranty	ASN-ODU Extended Warranty for five additional years (60 months)	Now	Warranty	Link	\$ 1,120.00
ASN-EXWER-12	Extended_Warranty	ASN add Emergency Replacement for one year (12 months). Must be covered by active warranty.	Now	Warranty	Link	\$ 525.00
ASN-EXWER-24	Extended_Warranty	ASN Extended Warranty including Emergency Replacement for two years (24 months)	Now	Warranty	Link	\$ 995.00
ASN-EXWER-36	Extended_Warranty	ASN Extended Warranty including Emergency Replacement for three years (36 months)	Now	Warranty	Link	\$ 1,415.00
ASN-EXWER-48	Extended_Warranty	ASN Extended Warranty including Emergency Replacement for four years (48 months)	Now	Warranty	Link	\$ 1,775.00
ASN-EXWER-60	Extended_Warranty	ASN Extended Warranty including Emergency Replacement for five years (60 months)	Now	Warranty	Link	\$ 2,090.00
ASN-DC-EXTWAR-12	Extended_Warranty	ASN-DC-ODU Extended Warranty for one additional year (12 months)	Now	Warranty	Link	\$ 450.00
ASN-DC-EXTWAR-24	Extended_Warranty	ASN-DC-ODU Extended Warranty for two additional years (24 months)	Now	Warranty	Link	\$ 850.00
ASN-DC-EXTWAR-36	Extended_Warranty	ASN-DC-ODU Extended Warranty for three additional years (36 months)	Now	Warranty	Link	\$ 1,210.00
ASN-DC-EXTWAR-48	Extended_Warranty	ASN-DC-ODU Extended Warranty for four additional years (48 months)	Now	Warranty	Link	\$ 1,525.00
ASN-DC-EXTWAR-60	Extended_Warranty	ASN-DC-ODU Extended Warranty for five additional years (60 months)	Now	Warranty	Link	\$ 1,790.00
ASN-DC-EXWER-12	Extended_Warranty	ASN-DC add Emergency Replacement for one year (12 months). Must be covered by active warranty.	Now	Warranty	Link	\$ 840.00
ASN-DC-EXWER-24	Extended_Warranty	ASN-DC Extended Warranty including Emergency Replacement for two years (24 months)	Now	Warranty	Link	\$ 1,545.00
ASN-DC-EXWER-36	Extended_Warranty	ASN-DC Extended Warranty including Emergency Replacement for three years (36 months)	Now	Warranty	Link	\$ 2,115.00
ASN-DC-EXWER-48	Extended_Warranty	ASN-DC Extended Warranty including Emergency Replacement for four years (48 months)	Now	Warranty	Link	\$ 2,570.00
ASN-DC-EXWER-60	Extended_Warranty	ASN-DC Extended Warranty including Emergency Replacement for five years (60 months)	Now	Warranty	Link	\$ 2,910.00
ASN-QC-EXTWAR-12	Extended_Warranty	ASN-QC-ODU Extended Warranty for one additional year (12 months)	Now	Warranty	Link	\$ 895.00
ASN-QC-EXTWAR-24	Extended_Warranty	ASN-QC-ODU Extended Warranty for two additional years (24 months)	Now	Warranty	Link	\$ 1,700.00
ASN-QC-EXTWAR-36	Extended_Warranty	ASN-QC-ODU Extended Warranty for three additional years (36 months)	Now	Warranty	Link	\$ 2,420.00
ASN-QC-EXTWAR-48	Extended_Warranty	ASN-QC-ODU Extended Warranty for four additional years (48 months)	Now	Warranty	Link	\$ 3,045.00

ASN-QC-EXTWAR-60	Extended_Warranty	ASN-QC-ODU Extended Warranty for five additional years (60 months)	Now	Warranty	Link	\$ 3,585.00
ASN-QC-EXWER-12	Extended_Warranty	ASN-QC add Emergency Replacement for one year (12 months). Must be covered by active warranty.	Now	Warranty	Link	\$ 1,680.00
ASN-QC-EXWER-24	Extended_Warranty	ASN-QC Extended Warranty including Emergency Replacement for two years (24 months)	Now	Warranty	Link	\$ 3,085.00
ASN-QC-EXWER-36	Extended_Warranty	ASN-QC Extended Warranty including Emergency Replacement for three years (36 months)	Now	Warranty	Link	\$ 4,235.00
ASN-QC-EXWER-48	Extended_Warranty	ASN-QC Extended Warranty including Emergency Replacement for four years (48 months)	Now	Warranty	Link	\$ 5,140.00
ASN-QC-EXWER-60	Extended_Warranty	ASN-QC Extended Warranty including Emergency Replacement for five years (60 months)	Now	Warranty	Link	\$ 5,825.00

Services

SF Product Name	SIAE Product Code	Description	Availability	Product Family	Unit	LIST Price (\$)
Repair Services						
NTF Fee	TBD	Return Unit No Fault/Trouble Found Fee.	Now	Services	Each	\$ 500.00
OW-REPAIR-AGS20	ZR_AGS20	Out of Warranty Repair Fee for AGS20 IDU. Includes 90 day warranty on repaired product.	Now	Services	Each	\$ 1,195.00
OW-REPAIR-ASNK	ZR_ASN	Out of Warranty Repair Fee for ASNK ODU. Includes 90 day warranty on repaired product.	Now	Services	Each	\$ 995.00
OW-REPAIR-AP	ZR_ALFOPlus	Out of Warranty Repair Fee for ALFOPlus ODU. Includes 90 day warranty on repaired product.	Now	Services	Each	\$ 1,195.00
OW-REPAIR-AP2	ZR_ALFOPlus2	Out of Warranty Repair Fee for ALFOPlus2 ODU. Includes 90 day warranty on repaired product.	Now	Services	Each	\$ 2,595.00
OW-REPAIR-AP80	ZR_ALFOPlus80	Out of Warranty Repair Fee for ALFOPlus80 ODU. Includes 90 day warranty on repaired product.	Now	Services	Each	\$ 1,495.00
OW-REPAIR-AP80HD	ZR_ALFOPlus80HD	Out of Warranty Repair Fee for ALFOPlus80HD ODU. Includes 90 day warranty on repaired product.	Now	Services	Each	\$ 1,495.00
OW-REPAIR-AP80HDX	ZR_ALFOPlus80HDX	Out of Warranty Repair Fee for ALFOPlus80HDX ODU. Includes 90 day warranty on repaired product.	Now	Services	Each	\$ 2,395.00
OW-REPAIR-EC60	ZR_EC60	Out of Warranty Repair Fee for EC60 ODU. Includes 90 day warranty on repaired product.	Now	Services	Each	N/A
FCC License Services						
FCC-80GHZ-LIC	FCC-80GHZ-LIC	FCC 80 GHz License Fee. License is added to SIAE's nationwide license and renewable in 10 years	Now	Services	Link	\$ 500.00
FCC-80GHZ-QZ	FCC-80GHZ-QZ	FCC 80 GHz License processing fee for links situated in FCC "70/80/90 GHz Quiet Zones"	Now	Services	Link	\$ 700.00
Miscellaneous Services						
KEY-INSTALL	KEY-INSTALL	Installation of SW keys to any ODU prior to shipping from SIAE USA Dallas	Now	Services	Each	\$ 150.00
SIAE Maintenance and Support Service Offerings**			Now	Diamond	Gold	Silver (Standard Offering for H-GACbuy Contract)
8am to 5pm CST - Weekdays (U.S.-Based Tech Support Personnel)		See adjacent column on left	Now	Yes	Yes	Yes
7x24x365 (U.S.-Based Technical Support Personnel)		See adjacent column on left	Now	Yes	No	No
Technical Query		See adjacent column on left	Now	30	60	60
Remote Access (via customer-approved tool)		See adjacent column on left	Now	Yes	Yes	No
Software/Firmware Updates		See adjacent column on left	Now	yes	Yes	Yes
Hardware Repair Services		See adjacent column on left	Now	yes	Yes	Yes
Software Support Services		See adjacent column on left	Now	Included with HW*	Included w/ HW	Included with HW
Emergency Support (see response/restoration SLA below)		See adjacent column on left	Now	Yes	Yes	Yes
Advance Replacement Services		See adjacent column on left	Now	yes	Yes	No
Emergency Support	Initial Response			30 min	60 min	60 min
	Restoration			4 hours	8 hours	24 hours
Price Per Terminal (per year)				\$750.00	\$250.00	Included

* Software support for SIAE Radio Product(s) is included with hardware purchase under the SIAE Standard Manufacturer Warranty and/or Extended Warranty.

** SIAE Maintenance and Support Tiered Service Offerings apply to products covered under a standard manufacturer warranty or extended warranty. SIAE also offers volume pricing (annual) for clients with large number of terminals, and this pricing is provided in SIAE Customer Technical Support Document submitted as part of Exhibit B-3.

Additional Services	LIST Price	H-GACbuy Contract Price
Provisioning Support (1 to 25 Terminals)	\$3,200 per year	\$2,800 per year
Provisioning Support (25 to 100 Terminals)	\$8,000 per year	\$6,400 per year
Provisioning Support (100 to 400 Terminals)	\$12,500	\$10,000 per year