



AUTHORIZED  
INFORMATION TECHNOLOGY SCHEDULE PRICELIST  
GENERAL PURPOSE COMMERCIAL INFORMATION TECHNOLOGY  
EQUIPMENT, SOFTWARE AND SERVICES

LTI DataComm, a woman-owned/veteran founded small business established in 1981, is a supplier of superior network solutions and services to the Federal Government. We enable mission critical IT objectives by providing engineering expertise and program support services through a comprehensive Professional Services offering. Our engineers and technical teams design, integrate, install, and support Secure Wireless Networks, Enterprise IP Video, and Network Performance & Cyber Security solutions that deliver measurable results and maximize IT investments. We drive client success through the development and implementation of network solutions by leveraging our strategic partnerships, an intimate understanding of end-user requirements, technical knowledge, and customer-focused personnel.

**SPECIAL ITEM NUMBER 132-8 PURCHASE OF NEW EQUIPMENT**

**FSC CLASS 7025 - INPUT/OUTPUT AND STORAGE DEVICES**

- Printers
- Display
- Graphics, including Video Graphics, Light Pens, Digitizers, Scanners, and Touch Screens
- Network Equipment
- Other Communications Equipment
- Optical Recognition Input/output Devices
- Storage Devices including Magnetic Storage, Magnetic Tape Storage and Optical Disk Storage
- Other Input/output and Storage Devices, Not Elsewhere Classified

**FSC Class 5805 - TELEPHONE AND TELEGRAPH EQUIPMENT**

- Telephone Equipment
- Audio and Video Teleconferencing Equipment

**FSC CLASS 5820 - RADIO AND TELEVISION COMMUNICATION EQUIPMENT, EXCEPT AIRBORNE**

- Two-Way Radio Transmitters/Receivers/Antennas
- Broadcast Band Radio Transmitters/Receivers/Antennas
- Microwave Radio Equipment/Antennas and Waveguides
- Satellite Communications Equipment

**FSC CLASS 5895 - MISCELLANEOUS COMMUNICATION EQUIPMENT**

- Miscellaneous Communications Equipment

**SPECIAL ITEM NUMBER 132-51 - INFORMATION TECHNOLOGY (IT) PROFESSIONAL SERVICES**

- FPDS Code D302 IT Systems Development Services
- FPDS Code D306 IT Systems Analysis Services
- FPDS Code D316 IT Network Management Services
- FPDS Code D399 Other Information Technology Services, Not Elsewhere Classified

**Note 1:** All non-professional labor categories must be incidental to and used solely to support hardware, software and/or professional services, and cannot be purchased separately.

**Note 2:** Offerors and Agencies are advised that the Group 70 – Information Technology Schedule is not to be used as a means to procure services which properly fall under the Brooks Act. These services include, but are not limited to, architectural, engineering, mapping, cartographic production, remote sensing, geographic information systems,



and related services. FAR 36.6 distinguishes between mapping services of an A/E nature and mapping services which are not connected nor incidental to the traditionally accepted A/E Services.

**Note 3:** This solicitation is not intended to solicit for the reselling of IT Professional Services, except for the provision of implementation, maintenance, integration, or training services in direct support of a product. Under such circumstances the services must be performance by the publisher or manufacturer or one of their authorized agents.

**LTI DataComm, Inc.**

**23020 Eaglewood Court, Suite 100, Sterling, VA 20166**

**(703) 581-6868**

**[www.ltidata.com](http://www.ltidata.com)**

**Contract Number: GS-35F-4803G**

**Period Covered by Contract: September 2, 2012 through September 1, 2017.**

**General Services Administration  
Federal Acquisition Service**

**Pricelist current through Modification #PS-0127, dated February 22, 2013.**

**Products and ordering information in this Authorized Information Technology Schedule Pricelist are also available on the GSA Advantage! System (<http://www.gsadvantage.gov>).**

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## INFORMATION FOR ORDERING ACTIVITIES APPLICABLE TO ALL SPECIAL ITEM NUMBERS

### SPECIAL NOTICE TO AGENCIES: SMALL BUSINESS PARTICIPATION

SBA strongly supports the participation of small business concerns in the Federal Acquisition Service. To enhance Small Business Participation SBA policy allows agencies to include in their procurement base and goals, the dollar value of orders expected to be placed against the Federal Supply Schedules, and to report accomplishments against these goals.

For orders exceeding the micropurchase threshold, FAR 8.404 requires agencies to consider the catalogs/pricelists of at least three schedule contractors or consider reasonably available information by using the GSA Advantage!<sup>TM</sup> on-line shopping service ([www.gsaadvantage.gov](http://www.gsaadvantage.gov)). The catalogs/pricelists, GSA Advantage!<sup>TM</sup> and the Federal Acquisition Service Home Page ([www.gsa.gov/fas](http://www.gsa.gov/fas)) contain information on a broad array of products and services offered by small business concerns.

This information should be used as a tool to assist ordering activities in meeting or exceeding established small business goals. It should also be used as a tool to assist in including small, small disadvantaged, and women-owned small businesses among those considered when selecting pricelists for a best value determination.

For orders exceeding the micropurchase threshold, customers are to give preference to small business concerns when two or more items at the same delivered price will satisfy their requirement.

#### 1. GEOGRAPHIC SCOPE OF CONTRACT:

*Domestic delivery* is delivery within the 48 contiguous states, Alaska, Hawaii, Puerto Rico, Washington, DC, and U.S. Territories. Domestic delivery also includes a port or consolidation point, within the aforementioned areas, for orders received from overseas activities.

*Overseas delivery* is delivery to points outside of the 48 contiguous states, Washington, DC, Alaska, Hawaii, Puerto Rico, and U.S. Territories.

Offerors are requested to check one of the following boxes:

- The Geographic Scope of Contract will be domestic and overseas delivery.
- The Geographic Scope of Contract will be overseas delivery only.
- The Geographic Scope of Contract will be domestic delivery only.

For Special Item Number 132-53 Wireless Services ONLY, if awarded, list the limited geographic coverage area:

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#### 2. CONTRACTOR'S ORDERING ADDRESS AND PAYMENT INFORMATION:

Contractor must accept the credit card for payments equal to or less than the micro-purchase for oral or written orders under this contract. The Contractor and the ordering agency may agree to use the credit card for dollar amounts over the micro-purchase threshold (See GSAR 552.232-79 Payment by Credit Card). In addition, bank account information for wire transfer payments will be shown on the invoice.

LTI DataComm, Inc.  
23020 Eaglewood Court, Suite #100  
Sterling, Virginia 20166  
Phone #: 703-581-6868  
Fax #: 703-581-6869



Contractor's Payment Address:

LTI DataComm, Inc.  
23020 Eaglewood Court, Suite #100  
Sterling, Virginia 20166

The following telephone number(s) can be used by ordering activities to obtain technical and/or ordering assistance:

(703) 581-6868/ Telephone

(703) 581-6869/ Fax

**3. LIABILITY FOR INJURY OR DAMAGE**

The Contractor shall not be liable for any injury to ordering activity personnel or damage to ordering activity property arising from the use of equipment maintained by the Contractor, unless such injury or damage is due to the fault or negligence of the Contractor.

**4. STATISTICAL DATA FOR GOVERNMENT ORDERING OFFICE COMPLETION OF STANDARD FORM 279:**

Block 9: G. Order/Modification Under Federal Schedule Contract  
Block 16: Data Universal Numbering System (DUNS) Number: **07-748-6322**  
Block 30: Type of Contractor: **B. Other Small Business**  
Block 31: Woman-Owned Small Business - Yes  
Block 37: Contractor's Taxpayer Identification Number (TIN): **54-115-9747**  
Block 40: Veteran Owned Small Business (VOSB): No

4a. CAGE Code: 1MMK2

4b. Contractor has registered with the Central Contractor Registration Database.

**5. FOB DESTINATION  
(Includes only the 48 contiguous states and the District of Columbia)**

**6. DELIVERY SCHEDULE**

**a. TIME OF DELIVERY:** The Contractor shall deliver to destination within the number of calendar days after receipt of order (ARO), as set forth below:

SPECIAL ITEM NUMBER	DELIVERY TIME (Days ARO)
132-8	15 -60 Days (based on configuration and product set)
132-51	As negotiated between contractor and ordering activity

**b. URGENT REQUIREMENTS:** When the Federal Supply Schedule contract delivery period does not meet the bona fide urgent delivery requirements of an ordering activity, ordering activities are encouraged, if time permits, to contact the Contractor for the purpose of obtaining accelerated delivery. The Contractor shall reply to the inquiry within 3 workdays after receipt. (Telephonic replies shall be confirmed by the Contractor in writing.) If the Contractor offers an accelerated delivery time acceptable to the ordering activity, any order(s) placed pursuant to the

agreed upon accelerated delivery time frame shall be delivered within this shorter delivery time and in accordance with all other terms and conditions of the contract.

**7. DISCOUNTS:**

Prices shown are NET Prices; Basic Discounts have been deducted.

- a. Prompt Payment: **0%** - Terms are Net 30 with no prompt payment discount
- b. Quantity - None
- c. Dollar Volume - None
- d. Government Educational Institutions - None
- e. Other - None

**8. TRADE AGREEMENTS ACT OF 1979, AS AMENDED:**

All items are U.S. made end products, designated country end products, Caribbean Basin country end products, Canadian end products, or Mexican end products as defined in the Trade Agreements Act of 1979, as amended.

**9. STATEMENT CONCERNING AVAILABILITY OF EXPORT PACKING:**

**10. SMALL REQUIREMENTS:**

**The minimum dollar value of orders to be issued is \$100.00.**

**11. MAXIMUM ORDER**

**(All dollar amounts are exclusive of any discount for prompt payment.)**

- a. The Maximum Order value for the following Special Item Numbers (SINs) is \$500,000:
  - Special Item Number 132-8 - Purchase of Equipment
  - Special Item Number 132-51 - Information Technology Professional Services

**12. ORDERING PROCEDURES FOR FEDERAL SUPPLY SCHEDULE CONTRACTS**

Ordering activities shall use the ordering procedures of Federal Acquisition Regulation (FAR) 8.405 when placing an order or establishing a BPA for supplies or services. These procedures apply to all schedules.

- a. FAR 8.405-1 Ordering procedures for supplies, and services not requiring a statement of work.
- b. FAR 8.405-2 Ordering procedures for services requiring a statement of work.

**13. FEDERAL INFORMATION TECHNOLOGY/TELECOMMUNICATION STANDARDS REQUIREMENTS:**

ordering activities acquiring products from this Schedule must comply with the provisions of the Federal Standards Program, as appropriate (reference: NIST Federal Standards Index). Inquiries to determine whether or not specific products listed herein comply with Federal Information Processing Standards (FIPS) or Federal Telecommunication Standards (FED-STDS), which are cited by ordering activities, shall be responded to promptly by the Contractor.

### **13.1 FEDERAL INFORMATION PROCESSING STANDARDS PUBLICATIONS (FIPS PUBS):**

Information Technology products under this Schedule that do not conform to Federal Information Processing Standards (FIPS) should not be acquired unless a waiver has been granted in accordance with the applicable "FIPS Publication." Federal Information Processing Standards Publications (FIPS PUBS) are issued by the U.S. Department of Commerce, National Institute of Standards and Technology (NIST), pursuant to National Security Act. Information concerning their availability and applicability should be obtained from the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, Virginia 22161. FIPS PUBS include voluntary standards when these are adopted for Federal use. Individual orders for FIPS PUBS should be referred to the NTIS Sales Office, and orders for subscription service should be referred to the NTIS Subscription Officer, both at the above address, or telephone number (703) 487-4650.

### **13.2 FEDERAL TELECOMMUNICATION STANDARDS (FED-STDS):**

Telecommunication products under this Schedule that do not conform to Federal Telecommunication Standards (FED-STDS) should not be acquired unless a waiver has been granted in accordance with the applicable "FED-STD." Federal Telecommunication Standards are issued by the U.S. Department of Commerce, National Institute of Standards and Technology (NIST), pursuant to National Security Act. Ordering information and information concerning the availability of FED-STDS should be obtained from the GSA, Federal Acquisition Service, Specification Section, 470 East L'Enfant Plaza, Suite 8100, SW, Washington, DC 20407, telephone number (202)619-8925. Please include a self-addressed mailing label when requesting information by mail. Information concerning their applicability can be obtained by writing or calling the U.S. Department of Commerce, National Institute of Standards and Technology, Gaithersburg, MD 20899, telephone number (301)975-2833.

### **14. CONTRACTOR TASKS / SPECIAL REQUIREMENTS (C-FSS-370) (NOV 2003)**

- (a) Security Clearances: The Contractor may be required to obtain/possess varying levels of security clearances in the performance of orders issued under this contract. All costs associated with obtaining/possessing such security clearances should be factored into the price offered under the Multiple Award Schedule.
- (b) Travel: The Contractor may be required to travel in performance of orders issued under this contract. Allowable travel and per diem charges are governed by Pub .L. 99-234 and FAR Part 31, and are reimbursable by the ordering agency or can be priced as a fixed price item on orders placed under the Multiple Award Schedule. Travel in performance of a task order will only be reimbursable to the extent authorized by the ordering agency. The Industrial Funding Fee does NOT apply to travel and per diem charges.
- (c) Certifications, Licenses and Accreditations: As a commercial practice, the Contractor may be required to obtain/possess any variety of certifications, licenses and accreditations for specific FSC/service code classifications offered. All costs associated with obtaining/ possessing such certifications, licenses and accreditations should be factored into the price offered under the Multiple Award Schedule program.
- (d) Insurance: As a commercial practice, the Contractor may be required to obtain/possess insurance coverage for specific FSC/service code classifications offered. All costs associated with obtaining/possessing such insurance should be factored into the price offered under the Multiple Award Schedule program.
- (e) Personnel: The Contractor may be required to provide key personnel, resumes or skill category descriptions in the performance of orders issued under this contract. Ordering activities may require agency approval of additions or replacements to key personnel.

- (f) Organizational Conflicts of Interest: Where there may be an organizational conflict of interest as determined by the ordering agency, the Contractor's participation in such order may be restricted in accordance with FAR Part 9.5.
- (g) Documentation/Standards: The Contractor may be requested to provide products or services in accordance with rules, regulations, OMB orders, standards and documentation as specified by the agency's order.
- (h) Data/Deliverable Requirements: Any required data/deliverables at the ordering level will be as specified or negotiated in the agency's order.
- (i) Government-Furnished Property: As specified by the agency's order, the Government may provide property, equipment, materials or resources as necessary.
- (j) Availability of Funds: Many Government agencies' operating funds are appropriated for a specific fiscal year. Funds may not be presently available for any orders placed under the contract or any option year. The Government's obligation on orders placed under this contract is contingent upon the availability of appropriated funds from which payment for ordering purposes can be made. No legal liability on the part of the Government for any payment may arise until funds are available to the ordering Contracting Officer.
- (k) Overtime: For professional services, the labor rates in the Schedule should not vary by virtue of the Contractor having worked overtime. For services applicable to the Service Contract Act (as identified in the Schedule), the labor rates in the Schedule will vary as governed by labor laws (usually assessed a time and a half of the labor rate).

**15. CONTRACT ADMINISTRATION FOR ORDERING ACTIVITIES:**

Any ordering activity, with respect to any one or more delivery orders placed by it under this contract, may exercise the same rights of termination as might the GSA Contracting Officer under provisions of FAR 52.212-4, paragraphs (l) Termination for the ordering activity's convenience, and (m) Termination for Cause (See 52.212-4)

**16. GSA ADVANTAGE!**

GSA Advantage! is an on-line, interactive electronic information and ordering system that provides on-line access to vendors' schedule prices with ordering information. GSA Advantage! will allow the user to perform various searches across all contracts including, but not limited to:

- (1) Manufacturer;
- (2) Manufacturer's Part Number; and
- (3) Product categories.

Agencies can browse GSA Advantage! by accessing the Internet World Wide Web utilizing a browser (ex.: NetScape). The Internet address is <http://www.gsaadvantage.gov>

**17. PURCHASE OF OPEN MARKET ITEMS**

NOTE: Open Market Items are also known as incidental items, noncontract items, non-Schedule items, and items not on a Federal Supply Schedule contract. Ordering Activities procuring open market items must follow FAR 8.402(f).

For administrative convenience, an ordering activity contracting officer may add items not on the Federal Supply Multiple Award Schedule (MAS) -- referred to as open market items -- to a Federal Supply Schedule blanket purchase agreement (BPA) or an individual task or delivery order, **only if-**

- (1) All applicable acquisition regulations pertaining to the purchase of the items not on the Federal Supply Schedule have been followed (e.g., publicizing (Part 5), competition requirements (Part 6), acquisition of commercial items (Part 12), contracting methods (Parts 13, 14, and 15), and small business programs (Part 19));
- (2) The ordering activity contracting officer has determined the price for the items not on the Federal Supply Schedule is fair and reasonable;
- (3) The items are clearly labeled on the order as items not on the Federal Supply Schedule; and
- (4) All clauses applicable to items not on the Federal Supply Schedule are included in the order.

**18. CONTRACTOR COMMITMENTS, WARRANTIES AND REPRESENTATIONS**

- a. For the purpose of this contract, commitments, warranties and representations include, in addition to those agreed to for the entire schedule contract:
  - (1) Time of delivery/installation quotations for individual orders;
  - (2) Technical representations and/or warranties of products concerning performance, total system performance and/or configuration, physical, design and/or functional characteristics and capabilities of a product/equipment/ service/software package submitted in response to requirements which result in orders under this schedule contract.
  - (3) Any representations and/or warranties concerning the products made in any literature, description, drawings and/or specifications furnished by the Contractor.
- b. The above is not intended to encompass items not currently covered by the GSA Schedule contract.
- c. The maintenance/repair service provided is the standard commercial terms and conditions for the type of products and/or services awarded.

**19. OVERSEAS ACTIVITIES**

The terms and conditions of this contract shall apply to all orders for installation, maintenance and repair of equipment in areas listed in the pricelist outside the 48 contiguous states and the District of Columbia, except as indicated below:

None.

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Upon request of the Contractor, the ordering activity may provide the Contractor with logistics support, as available, in accordance with all applicable ordering activity regulations. Such ordering activity support will be provided on a reimbursable basis, and will only be provided to the Contractor's technical personnel whose services are exclusively required for the fulfillment of the terms and conditions of this contract.

**20. BLANKET PURCHASE AGREEMENTS (BPAS)**

The use of BPAs under any schedule contract to fill repetitive needs for supplies or services is allowable. BPAs may be established with one or more schedule contractors. The number of BPAs to be established is within the discretion of the ordering activity establishing the BPA and should be based on a strategy that is expected to maximize the effectiveness of the BPA(s). Ordering activities shall follow FAR 8.405-3 when creating and implementing BPA(s).

**21. CONTRACTOR TEAM ARRANGEMENTS**

Contractors participating in contractor team arrangements must abide by all terms and conditions of their respective contracts. This includes compliance with Clauses 552.238-74, Industrial Funding Fee and Sales Reporting, i.e., each contractor (team member) must report sales and remit the IFF for all products and services provided under its individual contract.

**22. INSTALLATION, DEINSTALLATION, REINSTALLATION**

The Davis-Bacon Act (40 U.S.C. 276a-276a-7) provides that contracts in excess of \$2,000 to which the United States or the District of Columbia is a party for construction, alteration, or repair (including painting and decorating) of public buildings or public works with the United States, shall contain a clause that no laborer or mechanic employed directly upon the site of the work shall received less than the prevailing wage rates as determined by the Secretary of Labor. The requirements of the Davis-Bacon Act do not apply if the construction work is incidental to the furnishing of supplies, equipment, or services. For example, the requirements do not apply to simple installation or alteration of a public building or public work that is incidental to furnishing supplies or equipment under a supply contract. However, if the construction, alteration or repair is segregable and exceeds \$2,000, then the requirements of the Davis-Bacon Act applies.

The ordering activity issuing the task order against this contract will be responsible for proper administration and enforcement of the Federal labor standards covered by the Davis-Bacon Act. The proper Davis-Bacon wage determination will be issued by the ordering activity at the time a request for quotations is made for applicable construction classified installation, deinstallation, and reinstallation services under SIN 132-8 or 132-9.

**23. SECTION 508 COMPLIANCE.**

I certify that in accordance with 508 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794d), FAR 39.2, and the Architectural and Transportation Barriers Compliance Board Electronic and Information Technology (EIT) Accessibility Standards (36 CFR 1194) General Services Administration (GSA), that all IT hardware/software/services are 508 compliant:

Yes **XX**

No \_\_\_\_\_

The offeror is required to submit with its offer a designated area on its website that outlines the Voluntary Product Accessibility Template (VPAT) or equivalent qualification, which ultimately becomes the Government Product Accessibility Template (GPAT). Section 508 compliance information on the supplies and services in this contract are available at the following website address (URL): [www.ltidata.com](http://www.ltidata.com)

The EIT standard can be found at: [www.Section508.gov/](http://www.Section508.gov/).

**24. PRIME CONTRACTOR ORDERING FROM FEDERAL SUPPLY SCHEDULES.**

Prime Contractors (on cost reimbursement contracts) placing orders under Federal Supply Schedules, on behalf of an ordering activity, shall follow the terms of the applicable schedule and authorization and include with each order –

- (a) A copy of the authorization from the ordering activity with whom the contractor has the prime contract (unless a copy was previously furnished to the Federal Supply Schedule contractor); and
- (b) The following statement:

This order is placed under written authorization from \_\_\_\_\_ dated \_\_\_\_\_. In the event of any inconsistency between the terms and conditions of this order and those of your Federal Supply Schedule contract, the latter will govern.

**25. INSURANCE—WORK ON A GOVERNMENT INSTALLATION (JAN 1997)(FAR 52.228-5)**

(a) The Contractor shall, at its own expense, provide and maintain during the entire performance of this contract, at least the kinds and minimum amounts of insurance required in the Schedule or elsewhere in the contract.

(b) Before commencing work under this contract, the Contractor shall notify the Contracting Officer in writing that the required insurance has been obtained. The policies evidencing required insurance shall contain an endorsement to the effect that any cancellation or any material change adversely affecting the Government's interest shall not be effective—

(1) For such period as the laws of the State in which this contract is to be performed prescribe; or

(2) Until 30 days after the insurer or the Contractor gives written notice to the Contracting Officer, whichever period is longer.

(c) The Contractor shall insert the substance of this clause, including this paragraph (c), in subcontracts under this contract that require work on a Government installation and shall require subcontractors to provide and maintain the insurance required in the Schedule or elsewhere in the contract. The Contractor shall maintain a copy of all subcontractors' proofs of required insurance, and shall make copies available to the Contracting Officer upon request.

**26. SOFTWARE INTEROPERABILITY.**

Offerors are encouraged to identify within their software items any component interfaces that support open standard interoperability. An item's interface may be identified as interoperable on the basis of participation in a Government agency-sponsored program or in an independent organization program. Interfaces may be identified by reference to an interface registered in the component registry located at <http://www.core.gov>.

**27. ADVANCE PAYMENTS**

A payment under this contract to provide a service or deliver an article for the United States Government may not be more than the value of the service already provided or the article already delivered. Advance or pre-payment is not authorized or allowed under this contract. (31 U.S.C. 3324)

**TERMS AND CONDITIONS APPLICABLE TO PURCHASE OF  
GENERAL PURPOSE COMMERCIAL INFORMATION TECHNOLOGY NEW  
EQUIPMENT(SPECIAL ITEM NUMBER 132-8)**

**1. MATERIAL AND WORKMANSHIP**

All equipment furnished hereunder must satisfactorily perform the function for which it is intended.

**2. ORDER**

Written orders, EDI orders (GSA Advantage! and FACNET), credit card orders, and orders placed under blanket purchase agreements (BPA) agreements shall be the basis for purchase in accordance with the provisions of this contract. If time of delivery extends beyond the expiration date of the contract, the Contractor will be obligated to meet the delivery and installation date specified in the original order.

For credit card orders and BPAs, telephone orders are permissible.

**3. TRANSPORTATION OF EQUIPMENT**

FOB DESTINATION. Prices cover equipment delivery to destination, for any location within the geographic scope of this contract.

**4. INSTALLATION AND TECHNICAL SERVICES**

a. **INSTALLATION.** When the equipment provided under this contract is not normally self-installable, the Contractor's technical personnel shall be available to the ordering activity, at the ordering activity's location, to install the equipment and to train ordering activity personnel in the use and maintenance of the equipment. The charges, if any, for such services are listed below, or in the price schedule:

The prices for installation are in the price schedule

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b. **INSTALLATION, DEINSTALLATION, REINSTALLATION.** The Davis-Bacon Act (40 U.S.C. 276a-276a-7) provides that contracts in excess of \$2,000 to which the United States or the District of Columbia is a party for construction, alteration, or repair (including painting and decorating) of public buildings or public works with the United States, shall contain a clause that no laborer or mechanic employed directly upon the site of the work shall received less than the prevailing wage rates as determined by the Secretary of Labor. The requirements of the Davis-Bacon Act do not apply if the construction work is incidental to the furnishing of supplies, equipment, or services. For example, the requirements do not apply to simple installation or alteration of a public building or public work that is incidental to furnishing supplies or equipment under a supply contract. However, if the construction, alteration or repair is segregable and exceeds \$2,000, then the requirements of the Davis-Bacon Act applies.

The ordering activity issuing the task order against this contract will be responsible for proper administration and enforcement of the Federal labor standards covered by the Davis-Bacon Act. The proper Davis-Bacon wage determination will be issued by the ordering activity at the time a request for quotations is made for applicable construction classified installation, deinstallation, and reinstallation services under SIN 132-8 or SIN 132-9.

c. **OPERATING AND MAINTENANCE MANUALS.** The Contractor shall furnish the ordering activity with one (1) copy of all operating and maintenance manuals which are normally provided with the equipment being purchased.

**5. INSPECTION/ACCEPTANCE**

The Contractor shall only tender for acceptance those items that conform to the requirements of this contract. The ordering activity reserves the right to inspect or test any equipment that has been tendered for acceptance. The ordering activity may require repair or replacement of nonconforming equipment at no increase in contract price. The ordering activity must exercise its postacceptance rights (1) within a reasonable time after the defect was discovered or should have been discovered; and (2) before any substantial change occurs in the condition of the item, unless the change is due to the defect in the item.

**6. WARRANTY**

- a. Unless specified otherwise in this contract, the Contractor's standard commercial warranty as stated in the contract's commercial pricelist will apply to this contract.
- b. The Contractor warrants and implies that the items delivered hereunder are merchantable and fit for use for the particular purpose described in this contract.
- c. **Limitation of Liability.** Except as otherwise provided by an express or implied warranty, the Contractor will not be liable to the ordering activity for consequential damages resulting from any defect or deficiencies in accepted items.
- d. If inspection and repair of defective equipment under this warranty will be performed at the Contractor's plant, the address is as follows:



**LTI DataComm**  
**23020 Eaglewood Court**  
**Suite #100**  
**Sterling, Virginia 20166**

**7. PURCHASE PRICE FOR ORDERED EQUIPMENT**

The purchase price that the ordering activity will be charged will be the ordering activity purchase price in effect at the time of order placement, or the ordering activity purchase price in effect on the installation date (or delivery date when installation is not applicable), whichever is less.

**8. RESPONSIBILITIES OF THE CONTRACTOR**

The Contractor shall comply with all laws, ordinances, and regulations (Federal, State, City or otherwise) covering work of this character, and shall include all costs, if any, of such compliance in the prices quoted in this offer.

**9. TRADE-IN OF INFORMATION TECHNOLOGY EQUIPMENT**

When an ordering activity determines that Information Technology equipment will be replaced, the ordering activity shall follow the contracting policies and procedures in the Federal Acquisition Regulation (FAR), the policies and procedures regarding disposition of information technology excess personal property in the Federal Property Management Regulations (FPMR) (41 CFR 101-43.6), and the policies and procedures on exchange/sale contained in the FPMR (41 CFR part 101-46).

**TERMS AND CONDITIONS APPLICABLE TO INFORMATION TECHNOLOGY (IT) PROFESSIONAL SERVICES (SPECIAL ITEM NUMBER 132-51)**

***\*\*\*\*NOTE: All non-professional labor categories must be incidental to, and used solely to support professional services, and cannot be purchased separately.***

**1. SCOPE**

a. The prices, terms and conditions stated under Special Item Number 132-51 Information Technology Professional Services apply exclusively to IT Professional Services within the scope of this Information Technology Schedule.

b. The Contractor shall provide services at the Contractor’s facility and/or at the ordering activity location, as agreed to by the Contractor and the ordering activity.

**2. PERFORMANCE INCENTIVES I-FSS-60 Performance Incentives (April 2000)**

a. Performance incentives may be agreed upon between the Contractor and the ordering activity on individual fixed price orders or Blanket Purchase Agreements under this contract.

b. The ordering activity must establish a maximum performance incentive price for these services and/or total solutions on individual orders or Blanket Purchase Agreements.

c. Incentives should be designed to relate results achieved by the contractor to specified targets. To the maximum extent practicable, ordering activities shall consider establishing incentives where performance is critical to the ordering activity’s mission and incentives are likely to motivate the contractor. Incentives shall be based on objectively measurable tasks.

### **3. ORDER**

- a. Agencies may use written orders, EDI orders, blanket purchase agreements, individual purchase orders, or task orders for ordering services under this contract. Blanket Purchase Agreements shall not extend beyond the end of the contract period; all services and delivery shall be made and the contract terms and conditions shall continue in effect until the completion of the order. Orders for tasks which extend beyond the fiscal year for which funds are available shall include FAR 52.232-19 (Deviation – May 2003) Availability of Funds for the Next Fiscal Year. The purchase order shall specify the availability of funds and the period for which funds are available.
- b. All task orders are subject to the terms and conditions of the contract. In the event of conflict between a task order and the contract, the contract will take precedence.

### **4. PERFORMANCE OF SERVICES**

- a. The Contractor shall commence performance of services on the date agreed to by the Contractor and the ordering activity.
- b. The Contractor agrees to render services only during normal working hours, unless otherwise agreed to by the Contractor and the ordering activity.
- c. The ordering activity should include the criteria for satisfactory completion for each task in the Statement of Work or Delivery Order. Services shall be completed in a good and workmanlike manner.
- d. Any Contractor travel required in the performance of IT Services must comply with the Federal Travel Regulation or Joint Travel Regulations, as applicable, in effect on the date(s) the travel is performed. Established Federal Government per diem rates will apply to all Contractor travel. Contractors cannot use GSA city pair contracts.

### **5. STOP-WORK ORDER (FAR 52.242-15) (AUG 1989)**

- (a) The Contracting Officer may, at any time, by written order to the Contractor, require the Contractor to stop all, or any part, of the work called for by this contract for a period of 90 days after the order is delivered to the Contractor, and for any further period to which the parties may agree. The order shall be specifically identified as a stop-work order issued under this clause. Upon receipt of the order, the Contractor shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of costs allocable to the work covered by the order during the period of work stoppage. Within a period of 90 days after a stop-work is delivered to the Contractor, or within any extension of that period to which the parties shall have agreed, the Contracting Officer shall either-
  - (1) Cancel the stop-work order; or
  - (2) Terminate the work covered by the order as provided in the Default, or the Termination for Convenience of the Government, clause of this contract.
- (b) If a stop-work order issued under this clause is canceled or the period of the order or any extension thereof expires, the Contractor shall resume work. The Contracting Officer shall make an equitable adjustment in the delivery schedule or contract price, or both, and the contract shall be modified, in writing, accordingly, if-
  - (1) The stop-work order results in an increase in the time required for, or in the Contractor's cost properly allocable to, the performance of any part of this contract; and
  - (2) The Contractor asserts its right to the adjustment within 30 days after the end of the period of work stoppage; provided, that, if the Contracting Officer decides the facts justify the action, the Contracting Officer may receive and act upon the claim submitted at any time before final payment under this contract.
- (c) If a stop-work order is not canceled and the work covered by the order is terminated for the convenience of the Government, the Contracting Officer shall allow reasonable costs resulting from the stop-work order in arriving at the termination settlement.

(d) If a stop-work order is not canceled and the work covered by the order is terminated for default, the Contracting Officer shall allow, by equitable adjustment or otherwise, reasonable costs resulting from the stop-work order.

## **6. INSPECTION OF SERVICES**

In accordance with FAR 52.212-4 CONTRACT TERMS AND CONDITIONS--COMMERCIAL ITEMS (MAR 2009) (DEVIATION I - FEB 2007) for Firm-Fixed Price orders and FAR 52.212-4 CONTRACT TERMS AND CONDITIONS –COMMERCIAL ITEMS (MAR 2009) (ALTERNATE I – OCT 2008) (DEVIATION I – FEB 2007) applies to Time-and-Materials and Labor-Hour Contracts orders placed under this contract.

## **7. RESPONSIBILITIES OF THE CONTRACTOR**

The Contractor shall comply with all laws, ordinances, and regulations (Federal, State, City, or otherwise) covering work of this character. If the end product of a task order is software, then FAR 52.227-14 (Dec 2007) Rights in Data – General, may apply.

## **8. RESPONSIBILITIES OF THE ORDERING ACTIVITY**

Subject to security regulations, the ordering activity shall permit Contractor access to all facilities necessary to perform the requisite IT Professional Services.

## **9. INDEPENDENT CONTRACTOR**

All IT Professional Services performed by the Contractor under the terms of this contract shall be as an independent Contractor, and not as an agent or employee of the ordering activity.

## **10. ORGANIZATIONAL CONFLICTS OF INTEREST**

### **a. Definitions.**

“Contractor” means the person, firm, unincorporated association, joint venture, partnership, or corporation that is a party to this contract.

“Contractor and its affiliates” and “Contractor or its affiliates” refers to the Contractor, its chief executives, directors, officers, subsidiaries, affiliates, subcontractors at any tier, and consultants and any joint venture involving the Contractor, any entity into or with which the Contractor subsequently merges or affiliates, or any other successor or assignee of the Contractor.

An “Organizational conflict of interest” exists when the nature of the work to be performed under a proposed ordering activity contract, without some restriction on ordering activities by the Contractor and its affiliates, may either (i) result in an unfair competitive advantage to the Contractor or its affiliates or (ii) impair the Contractor’s or its affiliates’ objectivity in performing contract work.

b. To avoid an organizational or financial conflict of interest and to avoid prejudicing the best interests of the ordering activity, ordering activities may place restrictions on the Contractors, its affiliates, chief executives, directors, subsidiaries and subcontractors at any tier when placing orders against schedule contracts. Such restrictions shall be consistent with FAR 9.505 and shall be designed to avoid, neutralize, or mitigate organizational conflicts of interest that might otherwise exist in situations related to individual orders placed against the schedule contract. Examples of situations, which may require restrictions, are provided at FAR 9.508.

## **11. INVOICES**

The Contractor, upon completion of the work ordered, shall submit invoices for IT Professional services. Progress payments may be authorized by the ordering activity on individual orders if appropriate. Progress payments shall be

based upon completion of defined milestones or interim products. Invoices shall be submitted monthly for recurring services performed during the preceding month.

## **12. PAYMENTS**

For firm-fixed price orders the ordering activity shall pay the Contractor, upon submission of proper invoices or vouchers, the prices stipulated in this contract for service rendered and accepted. Progress payments shall be made only when authorized by the order. For time-and-materials orders, the Payments under Time-and-Materials and Labor-Hour Contracts at FAR 52.212-4 (MAR 2009) (ALTERNATE I – OCT 2008) (DEVIATION I – FEB 2007) applies to time-and-materials orders placed under this contract. For labor-hour orders, the Payment under Time-and-Materials and Labor-Hour Contracts at FAR 52.212-4 (MAR 2009) (ALTERNATE I – OCT 2008) (DEVIATION I – FEB 2007) applies to labor-hour orders placed under this contract. 52.216-31(Feb 2007) Time-and-Materials/Labor-Hour Proposal Requirements—Commercial Item Acquisition As prescribed in 16.601(e)(3), insert the following provision:

- (a) The Government contemplates award of a Time-and-Materials or Labor-Hour type of contract resulting from this solicitation.
- (b) The offeror must specify fixed hourly rates in its offer that include wages, overhead, general and administrative expenses, and profit. The offeror must specify whether the fixed hourly rate for each labor category applies to labor performed by—
  - (1) The offeror;
  - (2) Subcontractors; and/or
  - (3) Divisions, subsidiaries, or affiliates of the offeror under a common control.

## **13. RESUMES**

Resumes shall be provided to the GSA Contracting Officer or the user ordering activity upon request.

## **14. INCIDENTAL SUPPORT COSTS**

Incidental support costs are available outside the scope of this contract. The costs will be negotiated separately with the ordering activity in accordance with the guidelines set forth in the FAR.

## **15. APPROVAL OF SUBCONTRACTS**

The ordering activity may require that the Contractor receive, from the ordering activity's Contracting Officer, written consent before placing any subcontract for furnishing any of the work called for in a task order.

## **16. DESCRIPTION OF IT PROFESSIONAL SERVICES AND PRICING**

- a. The Contractor shall provide a description of each type of IT Service offered under Special Item Numbers 132-51 IT Professional Services should be presented in the same manner as the Contractor sells to its commercial and other ordering activity customers. If the Contractor is proposing hourly rates, a description of all corresponding commercial job titles (labor categories) for those individuals who will perform the service should be provided.
- b. Pricing for all IT Professional Services shall be in accordance with the Contractor's customary commercial practices; e.g., hourly rates, monthly rates, term rates, and/or fixed prices, minimum general experience and minimum education.

The following is an example of the manner in which the description of a commercial job title should be presented:

**EXAMPLE:** Commercial Job Title: System Engineer



Minimum/General Experience: Three (3) years of technical experience which applies to systems analysis and design techniques for complex computer systems. Requires competence in all phases of systems analysis techniques, concepts and methods; also requires knowledge of available hardware, system software, input/output devices, structure and management practices.

Functional Responsibility: Guides users in formulating requirements, advises alternative approaches, conducts feasibility studies.

Minimum Education: Bachelor's Degree in Computer Science

**USA COMMITMENT TO PROMOTE  
SMALL BUSINESS PARTICIPATION  
PROCUREMENT PROGRAMS**

**PREAMBLE**

LTI DataComm, Inc. provides commercial products and services to ordering activities. We are committed to promoting participation of small, small disadvantaged and women-owned small businesses in our contracts. We pledge to provide opportunities to the small business community through reselling opportunities, mentor-protégé programs, joint ventures, teaming arrangements, and subcontracting.

**COMMITMENT**

To actively seek and partner with small businesses.

To identify, qualify, mentor and develop small, small disadvantaged and women-owned small businesses by purchasing from these businesses whenever practical.

To develop and promote company policy initiatives that demonstrate our support for awarding contracts and subcontracts to small business concerns.

To undertake significant efforts to determine the potential of small, small disadvantaged and women-owned small business to supply products and services to our company.

To insure procurement opportunities are designed to permit the maximum possible participation of small, small disadvantaged, and women-owned small businesses.

To attend business opportunity workshops, minority business enterprise seminars, trade fairs, procurement conferences, etc., to identify and increase small businesses with whom to partner.

To publicize in our marketing publications our interest in meeting small businesses that may be interested in subcontracting opportunities.

We signify our commitment to work in partnership with small, small disadvantaged and women-owned small businesses to promote and increase their participation in ordering activity contracts. To accelerate potential opportunities please contact **LTI DataComm, Inc., 23020 Eaglewood Court, Suite 100, Sterling, VA 20129, (703) 581-6868, [ltidata.com](http://ltidata.com).**



**(CUSTOMER NAME)**  
**BLANKET PURCHASE AGREEMENT**

Pursuant to GSA Federal Supply Schedule Contract Number(s) \_\_\_\_\_, Blanket Purchase Agreements, the Contractor agrees to the following terms of a Blanket Purchase Agreement (BPA) EXCLUSIVELY WITH (ordering activity):

(1) The following contract items can be ordered under this BPA. All orders placed against this BPA are subject to the terms and conditions of the contract, except as noted below:

MODEL NUMBER/PART NUMBER	*SPECIAL BPA DISCOUNT/PRICE
_____	_____
_____	_____
_____	_____

(2) Delivery:

DESTINATION	DELIVERY SCHEDULES / DATES
_____	_____
_____	_____
_____	_____

(3) The ordering activity estimates, but does not guarantee, that the volume of purchases through this agreement will be \_\_\_\_\_.

(4) This BPA does not obligate any funds.

(5) This BPA expires on \_\_\_\_\_ or at the end of the contract period, whichever is earlier.

(6) The following office(s) is hereby authorized to place orders under this BPA:

OFFICE	POINT OF CONTACT
_____	_____
_____	_____
_____	_____

(7) Orders will be placed against this BPA via Electronic Data Interchange (EDI), FAX, or paper.

(8) Unless otherwise agreed to, all deliveries under this BPA must be accompanied by delivery tickets or sales slips that must contain the following information as a minimum:

- (a) Name of Contractor;
- (b) Contract Number;
- (c) BPA Number;
- (d) Model Number or National Stock Number (NSN);
- (e) Purchase Order Number;
- (f) Date of Purchase;



(g) Quantity, Unit Price, and Extension of Each Item (unit prices and extensions need not be shown when incompatible with the use of automated systems; provided, that the invoice is itemized to show the information); and

(h) Date of Shipment.

(9) The requirements of a proper invoice are specified in the Federal Supply Schedule contract. Invoices will be submitted to the address specified within the purchase order transmission issued against this BPA.

(10) The terms and conditions included in this BPA apply to all purchases made pursuant to it. In the event of an inconsistency between the provisions of this BPA and the Contractor's invoice, the provisions of this BPA will take precedence.

\*\*\*\*\*

**BASIC GUIDELINES FOR USING  
“CONTRACTOR TEAM ARRANGEMENTS”**

Federal Supply Schedule Contractors may use “Contractor Team Arrangements” (see FAR 9.6) to provide solutions when responding to a ordering activity requirements.

These Team Arrangements can be included under a Blanket Purchase Agreement (BPA). BPAs are permitted under all Federal Supply Schedule contracts.

Orders under a Team Arrangement are subject to terms and conditions or the Federal Supply Schedule Contract.

Participation in a Team Arrangement is limited to Federal Supply Schedule Contractors.

Customers should refer to FAR 9.6 for specific details on Team Arrangements.

Here is a general outline on how it works:

- The customer identifies their requirements.
- Federal Supply Schedule Contractors may individually meet the customers needs, or -
- Federal Supply Schedule Contractors may individually submit a Schedules “Team Solution” to meet the customer’s requirement.
- Customers make a best value selection.

### **Program Manager**

**Functional Responsibility:** Establishes administrative, financial and technical goals and objectives within parameters provided by senior management. Makes detailed plans for the accomplishment of these goals and objectives. Coordinates and directs the interactivity of these organizational activities. Forecasts costs, equipment, and personnel needs for projects and programs. Refers problems that do not respond to corrective action.

**Minimum/General Experience:** Three years of management experience preferred in developing, implementing, and supporting organizational, institutional, or government plans. Knowledgeable in the application of scientific methods and mathematical principles to solve program problems, evaluate alternatives, and identify the best course of action. Proficiency in solving intermediate-level strategy, forecasting, resource allocation, facilities layout, inventory control, personnel, scheduling and distribution problems. Knowledgeable in forecasting costs, equipment, and personnel needs for projects and programs. Experienced in hiring and assigning tasks to personnel to execute specific parts of the program. Experienced in supervising work, reviewing designs, projects, and reports. Confers with higher levels of management, marketing, contracting, and engineering personnel. Establishes working procedures and policies. Assigns, schedules, reviews, and ensures quality of the work of managers, engineers, technicians, and support personnel as required. Proficient in Federal Government, State, or local acquisition and contracting methods and requirements.

**Minimum Education:** Bachelors degree with 3 years of experience preferred, or associate's degree with 5 years of experience preferred, or high school diploma with 10 years of experience preferred. Academic degrees from other than U.S. academic institutions, professional certifications, and relevant technical training will be evaluated on a case-by-case basis.

### **Project Manager**

**Functional Responsibility:** Ensures compliance with financial, administrative, and technical goals and objectives within parameters provided by higher level management. Makes detailed plans for the accomplishment of these goals and objectives. Implements plans and directs the coordination of project-related activities. Ensures project compliance with policy, directs immediate operations, and supervises project staff. Forecasts costs, equipment, and personnel needs for projects. Refers problems that do not respond to corrective action.

**Minimum/General Experience:** Three years of management experience preferred in developing, implementing, and supporting organizational, institutional, or government plans. Knowledgeable in the application of scientific methods and thematic principles to solve project problems, evaluate alternatives, and identify the best course of action. Solves entry-level strategy, forecasting, resource allocation, facilities layout, inventory control, personnel schedule, and distribution system-type problems with guidance from immediate supervisor. Refers problems that do not respond to corrective action. Under direct supervision, forecasts costs, equipment, and personnel needs for the project. Knowledgeable in database management, programming, and in the use of software programs. Familiar with Federal Government, State, or local acquisition and contracting methods and requirements. Supervises project personnel and reviews their designs, projects, and reports.

**Minimum Education:** Bachelors degree with 2 years of experience preferred, or associate's degree with 4 years of experience preferred, or high school diploma with 8 years of experience preferred. Academic degrees from other than U.S. academic institutions, professional certifications, and relevant technical training will be evaluated on a case-by-case basis.

### **Senior Network Engineer**

**Functional Responsibility:** Installs and configures LAN, LAN-to-LAN, WAN environments and firewall. Technical expert in the design, use, and maintenance of computer and telecommunications local area/wide area networks (WANs). Uses an industry standard Network Operating System (NOS), which could be electronic, optical, or electromechanical machines that record, store, process, transcript, and/or manipulate data from single and/or all source material. Supervises development of procedures and network concepts. Develops and implements policies for LAN, WAN (identified locally as Base Area Network [BAN]), telecommunications, peripherals, and Internet applications. Oversees a myriad of nonstandard difficult operating problems that require extensive operator intervention. Oversees integrated networks. Supervises the conduct of assessments, troubleshooting, integration testing, technology prototyping, training, and analyses. Ensures maintenance of records, applicable software, hardware, forms, and plans. Spends time away from the control panel providing assistance to lower level network operators, programmers, systems analysts, and subject matter specialists to resolve problems. Coordinates closely with senior staff.

**Minimum/General Experience:** Five years of technical experience preferred in developing, implementing, and supporting organizational, institutional, or government networks. Proficient in designing, developing, testing, and establishing various types of networks, systems, new technologies, and specialized protocols and interfaces. Knowledgeable in business requirements. Competent in technical and non-technical written and oral communications.

**Minimum Education:** Bachelor's degree with 5 years of experience preferred, or associate's degree with 8 years of experience preferred, or high school diploma with 10 years of experience preferred. Academic degrees from other than U.S. academic institutions, professional certifications, and relevant technical training will be evaluated on a case-by-case basis.

### **PC/Network Administrator/Technician**

**Functional Responsibility:** Technical expert in the design, use, and maintenance of computer and telecommunications networks. Uses an industry standard NOS, which could be electronic, optical, or electromechanical machines that record, store, process, transcript, and/or manipulate data from single and/or all source material. Supervises procedures and develops network concepts. Assists in developing and implementing policies for LAN, WAN, telecommunications, peripherals, and Internet applications. Solves nonstandard difficult operating problems that require extensive operator intervention. Knowledgeable in integrated networks. Directly supervises the conduct of assessments, troubleshooting, integration testing, technology prototyping, training, and analyses. Ensures maintenance of records, applicable software, hardware, forms, and plans. Spends time away from the control panel providing assistance to lower level network operators, programmers, systems analysts, and subject matter specialists to resolve problems.

**Minimum/General Experience:** Three years of technical experience preferred in developing, implementing, and supporting organizational, institutional, or government networks. Proficient in designing, analyzing, developing, testing, and establishing various types of networks, systems, new technologies, specialized protocols and interfaces. Proficient in developing solutions for general network automation support, upgrades, system administration, configuration management, documentation, and training. Knowledgeable in business requirements. Competent in technical and non-technical written and oral communications.

**Minimum Education:** Bachelor's degree with 3 years of experience preferred or associate's degree with 5 years of experience preferred, or high school diploma with 8 years of experience preferred. Academic degrees from other than U.S. academic institutions, professional certifications, and relevant technical training will be evaluated on a case-by-case basis.

### **Software Engineer**

**Functional Responsibility:** Knowledgeable in designing and developing software. Understanding of advanced topics such as data migration, formal methods, computer-based training (CBT), distance learning, and formal requirements analysis. Knowledgeable in engineering functions such as network engineering, systems engineering, testing and validation techniques, functional design, benchmarking, performance management, and specific subject area as required. Directs and coordinates the identification of operational requirements and the establishment of technical and functional support standards and documentation. Oversees and assists with the design of software applications, hardware design and purchases, research and development tasks, installation and testing tasks, and customer-identified tasks. Forwards items beyond the scope of the individual. Sets schedules, assigns tasks, and manages programs/projects as required.

**Minimum/General Experience:** Three years of engineering experience preferred in developing, implementing, and supporting organizational, institutional, or Government plans or systems. Experienced in planning, designing, and establishing engineering or related projects. Competent in technical and non-technical written and oral communications

**Minimum Education:** Advance degree with two years experience preferred, or bachelor's degree with 4 years of experience preferred, or associate's degree with 6 years of experience preferred in related field. Academic degrees from other than U.S. academic institutions, professional certifications, and relevant technical training will be evaluated on a case-by-case basis.

### **Administrator**

**Functional Responsibility:** Expertise in various administrative tasks including routine business software, word processing, spreadsheets, data entry, database maintenance, graphics, filing systems forms, distribution systems, supply systems, schedules, proofreading, editing, formats, written and oral communications, and overseeing

personnel. Assists in the management, direction, and coordination of administrative tasks as assigned. Performs administrative tasks as assigned. Responds to routine administrative questions. Oversees and trains administrative personnel. Familiar with financial management, personnel management, security management, and human resources issues. Supervisor checks work for compliance.

**Minimum/General Experience:** Four years of administrative management experience preferred supporting organizational, institutional, or government programs. Familiarity with personnel management, database management, and computer software programs. Familiarity with government acquisition, contracting methods, and requirements. Competent in technical and non-technical written and oral communications.

**Minimum Education:** Bachelor's degree preferred or associate's degree with 2 years of experience preferred, or high school diploma with 4 years of experience preferred. Academic degrees from other than U.S. academic institutions, professional certifications, and relevant technical training will be evaluated on a case-by-case basis.

### Senior Administrator

**Functional Responsibility:** Expert in a variety of administrative tasks including routine business software, word processing, spreadsheets, data entry, database maintenance, graphics, filing systems, distribution systems, schedules, proofreading, editing, formats, written and oral communications, and supervising personnel. Manages, directs, coordinates, and performs administrative tasks. Responds to routine administrative questions. Supervises and trains personnel. Knowledgeable in financial management, personnel management, security management, and human resources issues.

**Minimum/General Experience:** Six years of administrative management experience preferred supporting organizational, institutional, or government programs. Knowledgeable in personnel management, database management, and computer software programs. Knowledgeable in government acquisition, contracting methods, and requirements. Competent in technical and nontechnical written and oral communications.

**Minimum Education:** Bachelor's degree preferred or associate's degree with 10 years of experience preferred, or high school diploma with 15 years of experience preferred. Academic degrees from other than U.S. academic institutions, professional certifications, and relevant technical training will be evaluated on a case-by-case basis.

### Engineer

**Functional Responsibility:** Develops and refines new engineering techniques to enhance quality and productivity. Work with the hardware and software aspects of systems design and development. They usually apply the theories and principles of science and mathematics to design hardware, software, networks, and processes and to solve technical problems. Whereas their work emphasizes the application of theory, computer engineers may also be involved in building prototypes. Computer hardware engineers usually design, develop, test, and supervise the manufacture of computer hardware—such as chips or device controllers. Software engineers, on the other hand, can be involved in the design and development of software systems for control and automation of manufacturing, business, and management processes. They may research, design, and test operating system software, compilers—software that converts programs for faster processing—and network distribution software.

**Minimum/General Experience:** Three years of engineering experience preferred in developing, implementing, and supporting organizational, institutional, or government plans or systems. Experienced in planning, designing, and establishing engineering or related projects. Competent in technical and non-technical written and oral communications.

**Minimum Education:** Bachelor's degree with 2 years of experience preferred or associate's degree with 4 years of experience preferred in related field. Academic degrees from other than U.S. academic institutions, professional certifications, and relevant technical training will be evaluated on a case-by-case basis.

### Principal Engineer

**Functional Responsibility:** Develops and refines new engineering techniques to enhance quality and productivity. Establishes performance and technical standards. Generates and approves project and testing specifications. May lead or coordinate complex task/project teams. Develops and refines new engineering techniques to enhance quality and productivity. Applies the theories and principles of science and mathematics to design hardware, software, networks, and processes and to solve technical problems. May be involved in building prototypes. Devises appropriate tests to evaluate, debug and check systems. Documents the results of complex analysis and design tasks. May



design moderately complex systems; assists in developing standards and techniques. Works with engineering management in report preparation, customer presentation, engineering analysis, data interpretation, and proposal generation.

**Minimum/General Experience:** Seven years of engineering experience preferred in developing, implementing, and supporting organizational, institutional, or government plans or systems. Experienced in planning, designing, and establishing engineering or related projects. Proficient in technical and non-technical written and oral communications.

**Minimum Education:** Bachelor's degree with 6 years of experience preferred or associate's degree with 8 years of experience preferred in related field. Academic degrees from other than U.S. academic institutions, professional certifications, and relevant technical training will be evaluated on a case-by-case basis.

### **Systems Engineer**

**Functional Responsibility:** Responsible for analysis and design of IT systems. Technical expert in the design, use, and maintenance of computer and telecommunications local area/wide area networks (WANs). Uses an industry standard Network Operating System (NOS), which could be electronic, optical, or electromechanical machines that record, store, process, transcript, and/or manipulate data from single and/or all source material. Develops and implements policies for LAN, WAN (identified locally as Base Area Network [BAN]), telecommunications, peripherals, and Internet applications. Oversees a myriad of nonstandard difficult operating problems that require extensive operator intervention.

**Minimum/General Experience:** Three to four years of senior level technical experience designing and implementing complex enterprise level integration solutions. Extensive experience in networking/Infrastructure, application integration, security, and optimization.

**Minimum Education:** Bachelor's degree in Computer Sciences preferred or Associates Degree with Industry Standard Qualification. (eg. Cisco Certification, CISSP, MCSE). Academic degrees from other than U.S. academic institutions, professional certifications, and relevant technical training will be evaluated on a case-by-case basis.

### **Senior Subject Matter Expert**

**Functional Responsibility:** Plans and executes complex tasks and projects relevant to subject matter. May lead the effort of others. Reduces issues to practical recommended options. Explains recommendation to decision-makers in terms that permit decisions. Performs studies and analyses on subjects within the technical scope of work.

**Minimum/General Experience:** Twenty years experience in relevant discipline(s) or area(s) of expertise. Possible areas of expertise include but are not limited to information technology, business development, system engineering, contracting, contract management, industrial processes, data networking, acquisition management, financial analysis, financial management, budgeting and performance, lab testing, equipment testing, software testing or network security. Experience in presentations, and resolving problems. Ability to explain issues to others in a manner that facilitates informed decision making. May include experience in evaluating, developing and/or analyzing information systems (IS) or information technology (IT) applied to information architectures/information warfare, including the use of client-server systems, distributed data bases, both wide-area and local-area communications, and a performance-based acquisition process. May include experience in financial analysis and management, cost estimating and analysis, budgeting and performance measurement.

**Minimum Education:** Bachelor's degree with 10 years experience or 20+ years relevant discipline(s) or experience in area(s) of expertise.

### **Field Engineer**

**Functional Responsibility:** Develops test plans and performs measurements in accordance with overall project objectives. Generates technical report at conclusion of measurements outlining test equipment configuration, methodology, and presentation of raw data, conclusions and recommendations. Interacts with customer throughout entire process to develop long-term relationship through quality service. Must be knowledgeable in a wide range of tasks, including systems/equipment installation, inspection, modification, maintenance, operation, personnel training, and technical writing.

**Minimum/General Experience:** Three years hands-on experience with voice, video and data transport equipment. Experienced in planning, designing, and establishing engineering or related projects. Proficient in technical and nontechnical written and oral communications.



**Minimum Education:** Bachelor's degree with 4 years of experience preferred or associate's degree with 8 years of experience preferred in related field. Academic degrees from other than U.S. academic institutions, professional certifications, and relevant technical training will be evaluated on a case-by-case basis.

### **Senior Field Engineer**

**Functional Responsibility:** Acts as customer liaison in requirements definition and senior engineer in development of test plans and performs measurements in accordance with overall project objectives. Responsible for communication system installation and troubleshooting according to technical specifications. Generates technical report at conclusion of measurements outlining test equipment configuration, methodology, and presentation of raw data, conclusions and recommendations. Interacts with customer throughout entire process to develop long-term relationship through quality service while identifying new business opportunities and service offerings.

**Minimum/General Experience:** Five years hands-on experience with voice, video and data transport equipment. Experienced in planning, designing, and establishing engineering or related projects. Proficient in technical and nontechnical written and oral communications.

**Minimum Education:** Bachelor's degree with 6 years of experience preferred or associate's degree with 10 years of experience preferred in related field. Academic degrees from other than U.S. academic institutions, professional certifications, and relevant technical training will be evaluated on a case-by-case basis.



Manufacturer	Part Number	Description	GSA Price
Cielo Networks	22543736	Surge Arrestors Type N Female/Female	\$ 231.36
Cielo Networks	22646114	Surge Arrestors Type N Male/Female	\$ 231.36
Cielo Networks	23034582	Gas Capsule, 90 V	\$ 21.66
Cielo Networks	100FPCPL	FE @ 100 Mb + 2T1/FE @ 50 Mb + 16T1 - Protected - Coupler	\$ 1,390.73
Cielo Networks	100FEPIDU	FE @ 100 Mb + 2T1/FE @ 50 Mb + 16T1 - Protected - IDU	\$ 6,325.44
Cielo Networks	100FEPLINK	FE @ 100 Mb + 2T1/FE @ 50 Mb + 16T1 - Protected - Link	\$ 28,096.22
Cielo Networks	100FEPODU	FE @ 100 Mb + 2T1/FE @ 50 Mb + 16T1 - Protected - ODU	\$ 3,162.72
Cielo Networks	100FEUPIDU	FE @ 100 Mb + 2T1/FE @ 50 Mb + 16T1 - Unprotected - IDU	\$ 4,427.81
Cielo Networks	100FEUPLINK	FE @ 100 Mb + 2T1/FE @ 50 Mb + 16T1 - Unprotected - Link	\$ 15,185.39
Cielo Networks	100FEUPODU	FE @ 100 Mb + 2T1/FE @ 50 Mb + 16T1 - Unprotected - ODU	\$ 3,162.72
Cielo Networks	100GPCPL	GE @ 100 Mb (+ NxT1 optional) - Protected - Coupler	\$ 1,390.73
Cielo Networks	100GEPIDU	GE @ 100 Mb (+ NxT1 optional) - Protected - IDU	\$ 6,957.98
Cielo Networks	100GEPLINK	GE @ 100 Mb (+ NxT1 optional) - Protected - Link	\$ 29,361.31
Cielo Networks	100GEPODU	GE @ 100 Mb (+ NxT1 optional) - Protected - ODU	\$ 3,162.72
Cielo Networks	100GEUPIDU	GE @ 100 Mb (+ NxT1 optional) - Unprotected - IDU	\$ 5,692.90
Cielo Networks	100GEUPLINK	GE @ 100 Mb (+ NxT1 optional) - Unprotected - Link	\$ 17,715.57
Cielo Networks	100GEUPODU	GE @ 100 Mb (+ NxT1 optional) - Unprotected - ODU	\$ 3,162.72
Cielo Networks	150FPCPL	FE @ 150 Mb + 2T1/FE @ 100 Mb + 16T1 (1) - Protected - Coupler	\$ 1,390.73
Cielo Networks	150FEPIDU	FE @ 150 Mb + 2T1/FE @ 100 Mb + 16T1 (1) - Protected - IDU	\$ 7,594.86
Cielo Networks	150FEPLINK	FE @ 150 Mb + 2T1/FE @ 100 Mb + 16T1 (1) - Protected - Link	\$ 30,626.40
Cielo Networks	150FEPODU	FE @ 150 Mb + 2T1/FE @ 100 Mb + 16T1 (1) - Protected - ODU	\$ 3,162.72
Cielo Networks	150FEUPIDU	FE @ 150 Mb + 2T1/FE @ 100 Mb + 16T1 (1) - Unprotected - IDU	\$ 5,692.90
Cielo Networks	150FEUPLINK	FE @ 150 Mb + 2T1/FE @ 100 Mb + 16T1 (1) - Unprotected - Link	\$ 17,715.57
Cielo Networks	150FEUPODU	FE @ 150 Mb + 2T1/FE @ 100 Mb + 16T1 (1) - Unprotected - ODU	\$ 3,162.72
Cielo Networks	150GE1PCPL	GE @ 150 Mb (+ NxT1 optional) (1) - Protected - Coupler	\$ 1,390.73
Cielo Networks	150GE1PIDU	GE @ 150 Mb (+ NxT1 optional) (1) - Protected - IDU	\$ 8,227.41
Cielo Networks	150GE1PLINK	GE @ 150 Mb (+ NxT1 optional) (1) - Protected - Link	\$ 31,891.49
Cielo Networks	150GE1PODU	GE @ 150 Mb (+ NxT1 optional) (1) - Protected - ODU	\$ 3,162.72
Cielo Networks	150GEUPIDU	GE @ 150 Mb (+ NxT1 optional) (1) - Unprotected - IDU	\$ 6,957.98
Cielo Networks	150GEUPLINK	GE @ 150 Mb (+ NxT1 optional) (1) - Unprotected - Link	\$ 20,250.08
Cielo Networks	150GEUPODU	GE @ 150 Mb (+ NxT1 optional) (1) - Unprotected - ODU	\$ 3,162.72
Cielo Networks	200FPCPL	FE @ 200 Mb + 2T1/FE @ 150 Mb + 16T1 (2) - Protected - Coupler	\$ 1,390.73

Cielo Networks	200FEPIDU	FE @ 200 Mb + 2T1/FE @ 150 Mb + 16T1 (2) - Protected - IDU	\$ 8,859.95
Cielo Networks	200FEPLINK	FE @ 200 Mb + 2T1/FE @ 150 Mb + 16T1 (2) - Protected - Link	\$ 33,156.57
Cielo Networks	200FEPODU	FE @ 200 Mb + 2T1/FE @ 150 Mb + 16T1 (2) - Protected - ODU	\$ 3,162.72
Cielo Networks	200FEUPIDU	FE @ 200 Mb + 2T1/FE @ 150 Mb + 16T1 (2) - Unprotected - IDU	\$ 6,957.98
Cielo Networks	200FEUPLINK	FE @ 200 Mb + 2T1/FE @ 150 Mb + 16T1 (2) - Unprotected - Link	\$ 20,250.08
Cielo Networks	200FEUPODU	FE @ 200 Mb + 2T1/FE @ 150 Mb + 16T1 (2) - Unprotected - ODU	\$ 3,162.72
Cielo Networks	200GE2PCPL	GE @ 200 Mb (+ NxT1 optional) (2) - Protected - Coupler	\$ 1,390.73
Cielo Networks	200GE2PIDU	GE @ 200 Mb (+ NxT1 optional) (2) - Protected - IDU	\$ 9,492.49
Cielo Networks	200GE2PLINK	GE @ 200 Mb (+ NxT1 optional) (2) - Protected - Link	\$ 34,421.66
Cielo Networks	200GE2PODU	GE @ 200 Mb (+ NxT1 optional) (2) - Protected - ODU	\$ 3,162.72
Cielo Networks	200GEPCPL	GE @ 200 Mb (1+1/2+0) x 2 (+ NxT1 optional) - Protected - Coupler	\$ 922.82
Cielo Networks	200GEPIDU	GE @ 200 Mb (1+1/2+0) x 2 (+ NxT1 optional) - Protected - IDU	\$ 9,492.49
Cielo Networks	200GEPLINK	GE @ 200 Mb (1+1/2+0) x 2 (+ NxT1 optional) - Protected - Link	\$ 68,843.32
Cielo Networks	200GEPODU	GE @ 200 Mb (1+1/2+0) x 2 (+ NxT1 optional) - Protected - ODU	\$ 3,162.72
Cielo Networks	200GEUPIDU	GE @ 200 Mb (+ NxT1 optional) (2) - Unprotected - IDU	\$ 8,227.41
Cielo Networks	200GEUPLINK	GE @ 200 Mb (+ NxT1 optional) (2) - Unprotected - Link	\$ 22,780.25
Cielo Networks	200GEUPODU	GE @ 200 Mb (+ NxT1 optional) (2) - Unprotected - ODU	\$ 3,162.72
Cielo Networks	20FEPCPL	FE @ 20 Mb + 2T1 - Protected - Coupler	\$ 1,390.73
Cielo Networks	20FEPIDU	FE @ 20 Mb + 2T1 - Protected - IDU	\$ 4,427.81
Cielo Networks	20FEPLINK	FE @ 20 Mb + 2T1 - Protected - Link	\$ 24,296.62
Cielo Networks	20FEPODU	FE @ 20 Mb + 2T1 - Protected - ODU	\$ 3,162.72
Cielo Networks	20FEUPIDU	FE @ 20 Mb + 2T1 - Unprotected - IDU	\$ 2,530.18
Cielo Networks	20FEUPLINK	FE @ 20 Mb + 2T1 - Unprotected - Link	\$ 11,390.13
Cielo Networks	20FEUPODU	FE @ 20 Mb + 2T1 - Unprotected - ODU	\$ 3,162.72
Cielo Networks	250GE3PCPL	GE @ 250 Mb (+ NxT1 optional) (3) - Protected - Coupler	\$ 1,390.73
Cielo Networks	250GE3PIDU	GE @ 250 Mb (+ NxT1 optional) (3) - Protected - IDU	\$ 10,757.58
Cielo Networks	250GE3PLINK	GE @ 250 Mb (+ NxT1 optional) (3) - Protected -Link	\$ 36,951.84
Cielo Networks	250GE3PODU	GE @ 250 Mb (+ NxT1 optional) (3) - Protected - ODU	\$ 3,162.72
Cielo Networks	250GEUPIDU	GE @ 250 Mb (+ NxT1 optional) (3) - Unprotected - IDU	\$ 9,492.49
Cielo Networks	250GEUPLINK	GE @ 250 Mb (+ NxT1 optional) (3) - Unprotected - Link	\$ 25,310.43
Cielo Networks	250GEUPODU	GE @ 250 Mb (+ NxT1 optional) (3) - Unprotected - ODU	\$ 3,162.72
Cielo Networks	2734223-0002	14xT1 harness, 60 pin HD Molex IDU interface to 14 x RJ-48C pigtail, standard RJ-48C pinout, 3m/9.8 ft.	\$ 253.02

Cielo Networks	2734223-0003	14xT1 harness, 60 pin HD Molex IDU interface to 14 x RJ-48C pigtail, crossover RJ-48C pinout, 3m/9.8 ft.	\$ 253.02
Cielo Networks	2734227-0001	IDU install kit - 19" rack mount ears & screws, Phoenix DC power connector	\$ 25.99
Cielo Networks	28-6066A03	AC/DC powers supply, brick style, -48 VDC, 130 Watts, integrated AC & DC cords & Phoenix IDU connector	\$ 190.63
Cielo Networks	300GE4PCPL	GE @ 300 Mb (+ NxT1 optional) (4) - Protected - Coupler	\$ 1,390.73
Cielo Networks	300GE4PIDU	GE @ 300 Mb (+ NxT1 optional) (4) - Protected - IDU	\$ 12,022.67
Cielo Networks	300GE4PLINK	GE @ 300 Mb (+ NxT1 optional) (4) - Protected - Link	\$ 39,482.02
Cielo Networks	300GE4PODU	GE @ 300 Mb (+ NxT1 optional) (4) - Protected - ODU	\$ 3,162.72
Cielo Networks	300GEPCPL	GE @ 300 Mb (1+1/2+0) x 2 (+ NxT1 optional) - Protected - Coupler	\$ 1,390.73
Cielo Networks	300GEPIDU	GE @ 300 Mb (1+1/2+0) x 2 (+ NxT1 optional) - Protected - IDU	\$ 12,022.67
Cielo Networks	300GEPLINK	GE @ 300 Mb (1+1/2+0) x 2 (+ NxT1 optional) - Protected - Link	\$ 78,968.36
Cielo Networks	300GEPODU	GE @ 300 Mb (1+1/2+0) x 2 (+ NxT1 optional) - Protected - ODU	\$ 3,162.72
Cielo Networks	300GEUPIDU	GE @ 300 Mb (+ NxT1 optional) (4) - Unprotected -IDU	\$ 10,756.72
Cielo Networks	300GEUPLINK	GE @ 300 Mb (+ NxT1 optional) (4) - Unprotected - Link	\$ 27,840.60
Cielo Networks	300GEUPODU	GE @ 300 Mb (+ NxT1 optional) (4) - Unprotected - ODU	\$ 3,162.72
Cielo Networks	400GEPCPL	GE @ 400 Mb (1+1/2+0) x 2 (+ NxT1 optional) - Protected - Coupler	\$ 1,390.73
Cielo Networks	400GEPIDU	GE @ 400 Mb (1+1/2+0) x 2 (+ NxT1 optional) - Protected - IDU	\$ 13,921.17
Cielo Networks	400GEPLINK	GE @ 400 Mb (1+1/2+0) x 2 (+ NxT1 optional) - Protected - Link	\$ 86,563.22
Cielo Networks	400GEPODU	GE @ 400 Mb (1+1/2+0) x 2 (+ NxT1 optional) - Protected - ODU	\$ 3,162.72
Cielo Networks	500GEPCPL	GE @ 500 Mb (1+1/2+0) x 2 (+ NxT1 optional) - Protected - Coupler	\$ 1,390.73
Cielo Networks	500GEPIDU	GE @ 500 Mb (1+1/2+0) x 2 (+ NxT1 optional) - Protected - IDU	\$ 15,817.93
Cielo Networks	500GEPLINK	GE @ 500 Mb (1+1/2+0) x 2 (+ NxT1 optional) - Protected - Link	\$ 94,153.75
Cielo Networks	500GEPODU	GE @ 500 Mb (1+1/2+0) x 2 (+ NxT1 optional) - Protected - ODU	\$ 3,162.72
Cielo Networks	50FEPCPL	FE @ 50 Mb + 2T1/FE @ 20 Mb + 16T1 - Protected - Coupler	\$ 1,390.73
Cielo Networks	50FEPIDU	FE @ 50 Mb + 2T1/FE @ 20 Mb + 16T1 - Protected - IDU	\$ 5,060.35
Cielo Networks	50FEPLINK	FE @ 50 Mb + 2T1/FE @ 20 Mb + 16T1 - Protected - Link	\$ 25,561.71
Cielo Networks	50FEPODU	FE @ 50 Mb + 2T1/FE @ 20 Mb + 16T1 - Protected - ODU	\$ 3,162.72
Cielo Networks	50FEUPIDU	FE @ 50 Mb + 2T1/FE @ 20 Mb + 16T1 - Unprotected - IDU	\$ 3,162.72
Cielo Networks	50FEUPLINK	FE @ 50 Mb + 2T1/FE @ 20 Mb + 16T1 - Unprotected - Link	\$ 12,655.21
Cielo Networks	50FEUPODU	FE @ 50 Mb + 2T1/FE @ 20 Mb + 16T1 - Unprotected - ODU	\$ 3,162.72
Cielo Networks	50GEPCL	GE @ 50 Mb (+ NxT1 optional) - Protected - Coupler	\$ 1,390.73
Cielo Networks	50GEPIDU	GE @ 50 Mb (+ NxT1 optional) - Protected - IDU	\$ 5,692.90

Cielo Networks	50GEPLINK	GE @ 50 Mb (+ NxT1 optional) - Protected - Link	\$ 26,826.80
Cielo Networks	50GEPODU	GE @ 50 Mb (+ NxT1 optional) - Protected - ODU	\$ 3,162.72
Cielo Networks	50GEUPIDU	GE @ 50 Mb (+ NxT1 optional) - Unprotected - IDU	\$ 4,427.81
Cielo Networks	50GEUPLINK	GE @ 50 Mb (+ NxT1 optional) - Unprotected - Link	\$ 15,185.39
Cielo Networks	50GEUPODU	GE @ 50 Mb (+ NxT1 optional) - Unprotected - ODU	\$ 3,162.72
Cielo Networks	600GEPCL	GE @ 600 Mb (1+1/2+0) x 2 (+ NxT1 optional) - Protected - Coupler	\$ 1,390.73
Cielo Networks	600GEPIDU	GE @ 600 Mb (1+1/2+0) x 2 (+ NxT1 optional) - Protected - IDU	\$ 17,715.57
Cielo Networks	600GEPLINK	GE @ 600 Mb (1+1/2+0) x 2 (+ NxT1 optional) - Protected - Link	\$ 101,748.61
Cielo Networks	600GEPODU	GE @ 600 Mb (1+1/2+0) x 2 (+ NxT1 optional) - Protected - ODU	\$ 3,162.72
Cielo Networks	ADA-PLMT-1	Cielo ODU remote antenna mount, 7 & 8 GHz	\$ 606.55
Cielo Networks	ADA-PLMT-3	Cielo ODU remote antenna mount, 15 GHz	\$ 606.55
Cielo Networks	ADA-PLMT-4	Cielo ODU remote antenna mount, 18/23 GHz	\$ 606.55
Cielo Networks	ADA-PLMT-5	Cielo ODU remote antenna mount, 38 GHz	\$ 606.55
Cielo Networks	ADA-PLMT-7	Cielo ODU remote antenna mount, 6 GHz	\$ 606.55
Cielo Networks	ADA-PLMT-8	Cielo ODU remote antenna mount, 11 GHz	\$ 606.55
Cielo Networks	ADA-PLMT-X	1+0 single ODU remote mount kit, X = frequency band, Cielo SkyLink ODU interfaces	\$ 948.82
Cielo Networks	BGXZ-60NFNF-ALT	PolyPhaser Surge Arrestor, Type N F-F, SkyLink system compatible	\$ 259.95
Cielo Networks	BGXZ-60NFNM-ALT	PolyPhaser Surge Arrestor, Type N M-F, SkyLink system compatible	\$ 259.95
Cielo Networks	CCM-4100	Fast Ethernet Interface Module	\$ 1,559.70
Cielo Networks	CCM-4110	Gigabit Ethernet interface module, SFP slot for 1000Base-TX/SX/LX & 4 x 10/100/1000Base-TX RJ-45 + 2xT1	\$ 1,771.99
Cielo Networks	CCM-4132	Expansion I/O 16 x T1 Module	\$ 1,139.45
Cielo Networks	CCM-4155	OC-3 Mini IO Module	\$ 1,455.72
Cielo Networks	CCM-4500	Controller Module	\$ 953.15
Cielo Networks	CCM-4600	Narrowband Modem Module	\$ 1,733.00
Cielo Networks	CCM-4660	Wideband Modem Module	\$ 1,949.62
Cielo Networks	CCM-4800	Power Supply Module	\$ 433.25
Cielo Networks	CNUPKW0102	20 Mbps to 50 Mbps	\$ 866.50
Cielo Networks	CNUPKW0103	20 Mbps to 100 Mbps	\$ 1,299.75
Cielo Networks	CNUPKW0104	20 Mbps to 150 Mbps	\$ 1,733.00
Cielo Networks	CNUPKW0105	20 Mbps to 200 Mbps	\$ 2,166.25
Cielo Networks	CNUPKW0106	20 Mbps to 250 Mbps	\$ 2,599.50
Cielo Networks	CNUPKW0107	20 Mbps to 300 Mbps	\$ 3,032.75

Cielo Networks	CNUPKW0203	50 Mbps to 100 Mbps	\$ 866.50
Cielo Networks	CNUPKW0204	50 Mbps to 150 Mbps	\$ 1,299.75
Cielo Networks	CNUPKW0205	50 Mbps to 200 Mbps	\$ 1,733.00
Cielo Networks	CNUPKW0206	50 Mbps to 250 Mbps	\$ 2,166.25
Cielo Networks	CNUPKW0207	50 Mbps to 300 Mbps	\$ 2,599.50
Cielo Networks	CNUPKW0304	100 Mbps to 150 Mbps	\$ 866.50
Cielo Networks	CNUPKW0305	100 Mbps to 200 Mbps	\$ 1,299.75
Cielo Networks	CNUPKW0306	100 Mbps to 250 Mbps	\$ 1,733.00
Cielo Networks	CNUPKW0307	100 Mbps to 300 Mbps	\$ 2,166.25
Cielo Networks	CNUPKW0405	150 Mbps to 200 Mbps	\$ 866.50
Cielo Networks	CNUPKW0406	150 Mbps to 250 Mbps	\$ 1,299.75
Cielo Networks	CNUPKW0407	150 Mbps to 300 Mbps	\$ 1,733.00
Cielo Networks	CNUPKW0506	200 Mbps to 250 Mbps	\$ 866.50
Cielo Networks	CNUPKW0507	200 Mbps to 300 Mbps	\$ 1,299.75
Cielo Networks	CNUPKW0607	250 Mbps to 300 Mbps	\$ 866.50
Cielo Networks	CNUPKWG4GA	150 Mbps GigE 1+0 to 200 Mbps GigE 2+0	\$ 1,083.12
Cielo Networks	CNUPKWG4GB	150 Mbps GigE 1+0 to 300 Mbps GigE 2+0	\$ 1,949.62
Cielo Networks	CNUPKWG4GC	150 Mbps GigE 1+0 to 400 Mbps GigE 2+0	\$ 2,816.12
Cielo Networks	CNUPKWG4GD	150 Mbps GigE 1+0 to 500 Mbps GigE 2+0	\$ 3,682.62
Cielo Networks	CNUPKWG4GE	150 Mbps GigE 1+0 to 600 Mbps GigE 2+0	\$ 4,549.12
Cielo Networks	CNUPKWG5GB	200 Mbps GigE 1+0 to 300 Mbps GigE 2+0	\$ 1,516.37
Cielo Networks	CNUPKWG5GC	200 Mbps GigE 1+0 to 400 Mbps GigE 2+0	\$ 2,382.87
Cielo Networks	CNUPKWG5GD	200 Mbps GigE 1+0 to 500 Mbps GigE 2+0	\$ 3,249.37
Cielo Networks	CNUPKWG5GE	200 Mbps GigE 1+0 to 600 Mbps GigE 2+0	\$ 4,115.87
Cielo Networks	CNUPKWG6GB	250 Mbps GigE 1+0 to 300 Mbps GigE 2+0	\$ 1,083.12
Cielo Networks	CNUPKWG6GC	250 Mbps GigE 1+0 to 400 Mbps GigE 2+0	\$ 1,949.62
Cielo Networks	CNUPKWG6GD	250 Mbps GigE 1+0 to 500 Mbps GigE 2+0	\$ 2,816.12
Cielo Networks	CNUPKWG6GE	250 Mbps GigE 1+0 to 600 Mbps GigE 2+0	\$ 3,682.62
Cielo Networks	CNUPKWG7GC	300 Mbps GigE 1+0 to 400 Mbps GigE 2+0	\$ 1,516.37
Cielo Networks	CNUPKWG7GD	300 Mbps GigE 1+0 to 500 Mbps GigE 2+0	\$ 2,382.87
Cielo Networks	CNUPKWG7GE	300 Mbps GigE 1+0 to 600 Mbps GigE 2+0	\$ 3,249.37
Cielo Networks	CNUPKWGAGB	200 Mbps GigE 2+0 to 300 Mbps GigE 2+0	\$ 1,299.75
Cielo Networks	CNUPKWGAGC	200 Mbps GigE 2+0 to 400 Mbps GigE 2+0	\$ 2,166.25

Cielo Networks	CNUPKWGAGD	200 Mbps GigE 2+0 to 500 Mbps GigE 2+0	\$ 3,032.75
Cielo Networks	CNUPKWGAGE	200 Mbps GigE 2+0 to 600 Mbps GigE 2+0	\$ 3,899.24
Cielo Networks	CNUPKWGBGC	300 Mbps GigE 2+0 to 400 Mbps GigE 2+0	\$ 1,299.75
Cielo Networks	CNUPKWGBGD	300 Mbps GigE 2+0 to 500 Mbps GigE 2+0	\$ 2,166.25
Cielo Networks	CNUPKWGBGE	300 Mbps GigE 2+0 to 600 Mbps GigE 2+0	\$ 3,032.75
Cielo Networks	CNUPKWGCGD	400 Mbps GigE 2+0 to 500 Mbps GigE 2+0	\$ 1,299.75
Cielo Networks	CNUPKWGCGE	400 Mbps GigE 2+0 to 600 Mbps GigE 2+0	\$ 2,166.25
Cielo Networks	CNUPKWGDGE	500 Mbps GigE 2+0 to 600 Mbps GigE 2+0	\$ 1,299.75
Cielo Networks	COUP11G-31-3	Cielo ODU 2+0 coupler, 11 GHz, 3 dB, direct antenna mount	\$ 1,516.37
Cielo Networks	COUP11G-31-6	Cielo ODU 1+1 HSB coupler, 11 GHz, 1.9/6 dB, direct antenna mount	\$ 1,516.37
Cielo Networks	COUP11G-51-3	Cielo ODU 2+0 coupler, 11 GHz, 3 dB, pole mount, UBR100 flange	\$ 1,516.37
Cielo Networks	COUP11G-51-6	Cielo ODU 1+1 HSB coupler, 11 GHz, 1.9/6 dB, pole mount, UBR100 flange	\$ 1,516.37
Cielo Networks	COUP15G-33-3	Cielo ODU 2+0 coupler, 15 GHz, 3 dB, direct antenna mount	\$ 1,516.37
Cielo Networks	COUP15G-33-6	Cielo ODU 1+1 HSB coupler, 15 GHz, 1.9/6 dB, direct antenna mount	\$ 1,516.37
Cielo Networks	COUP15G-53-3	Cielo ODU 2+0 coupler, 15 GHz, 3 dB, pole mount, UBR140 flange	\$ 1,516.37
Cielo Networks	COUP15G-53-6	Cielo ODU 1+1 HSB coupler, 15 GHz, 1.9/6 dB, pole mount, UBR140 flange	\$ 1,516.37
Cielo Networks	COUP18G-34-3	Cielo ODU 2+0 coupler, 18 GHz, 3 dB, direct antenna mount	\$ 1,516.37
Cielo Networks	COUP18G-34-6	Cielo ODU 1+1 HSB coupler, 18 GHz, 1.9/6 dB, direct antenna mount	\$ 1,516.37
Cielo Networks	COUP18G-54-3	Cielo ODU 2+0 coupler, 18 GHz, 3 dB, pole mount, UBR220 flange	\$ 1,516.37
Cielo Networks	COUP18G-54-6	Cielo ODU 1+1 HSB coupler, 18 GHz, 1.9/6 dB, pole mount, UBR220 flange	\$ 1,516.37
Cielo Networks	COUP23G-35-3	Cielo ODU 2+0 coupler, 23 GHz, 3 dB, direct antenna mount	\$ 1,516.37
Cielo Networks	COUP23G-35-6	Cielo ODU 1+1 HSB coupler, 23 GHz, 1.9/6 dB, direct antenna mount	\$ 1,516.37
Cielo Networks	COUP23G-55-3	Cielo ODU 2+0 coupler, 23 GHz, 3 dB, pole mount, UBR220 flange	\$ 1,516.37
Cielo Networks	COUP23G-55-6	Cielo ODU 1+1 HSB coupler, 23 GHz, 1.9/6 dB, pole mount, UBR220 flange	\$ 1,516.37
Cielo Networks	COUP38G-39-3	Cielo ODU 2+0 coupler, 38 GHz, 3 dB, direct antenna mount	\$ 1,516.37
Cielo Networks	COUP38G-39-6	Cielo ODU 1+1 HSB coupler, 38 GHz, 1.9/6 dB, direct antenna mount	\$ 1,516.37
Cielo Networks	COUP38G-59-3	Cielo ODU 2+0 coupler, 38 GHz, 3 dB, pole mount, UBR320 flange	\$ 1,516.37
Cielo Networks	COUP38G-59-6	Cielo ODU 1+1 HSB coupler, 38 GHz, 1.9/6 dB, pole mount, UBR320 flange	\$ 1,516.37
Cielo Networks	COUP6G-30-3	Cielo ODU 2+0 coupler, 6 GHz, 3 dB, direct antenna mount	\$ 1,516.37
Cielo Networks	COUP6G-30-6	Cielo ODU 1+1 HSB coupler, 6 GHz, 1.9/6 dB, direct antenna mount	\$ 1,516.37
Cielo Networks	COUP6G-50-3	Cielo ODU 2+0 coupler, 6 GHz, 3 dB, pole mount, UDR70 flange	\$ 1,516.37
Cielo Networks	COUP6G-50-6	Cielo ODU 1+1 HSB coupler, 6 GHz, 1.9/6 dB, pole mount, UDR70 flange	\$ 1,516.37
Cielo Networks	COUP7&8G-30-3	Cielo ODU 2+0 coupler, 7&8 GHz, 3 dB, direct antenna mount	\$ 1,516.37

Cielo Networks	COUP7&8G-30-6	Cielo ODU 1+1 HSB coupler, 7&8 GHz, 1.9/6 dB, direct antenna mount	\$ 1,516.37
Cielo Networks	COUP7&8G-50-3	Cielo ODU 2+0 coupler, 7&8 GHz, 3 dB, pole mount, UBR84 flange	\$ 1,516.37
Cielo Networks	COUP7&8G-50-6	Cielo ODU 1+1 HSB coupler, 7&8 GHz, 1.9/6 dB, pole mount, UBR84 flange	\$ 1,516.37
Cielo Networks	DR120-48	AC/DC power supply, DIN rail mount, -48 VDC, 120 Watts, AC cord & DC hook up wire included	\$ 136.91
Cielo Networks	F042KMS3	WR42 Flexible Waveguide, PBR220/UBR220, 0.9 m/35"	\$ 649.87
Cielo Networks	F075KMS3	WR75 Flexible Waveguide, PBR120/UBR120, 0.9 m/35"	\$ 649.87
Cielo Networks	F090DKS3	WR90 Flexible Waveguide, CPR90F/PBR100, 0.9 m/35"	\$ 649.87
Cielo Networks	F137DHS3	WR137 Flexible Waveguide, CPR137F/PDR70, 0.9 m/35"	\$ 649.87
Cielo Networks	F137HLS3	WR137 Flexible Waveguide, PDR70/UDR70, 0.9 m/35"	\$ 649.87
Cielo Networks	FTLF-8519-P2BNL	Gigabit Ethernet Optical SFP Module, MMF, LC Connector, 850 nm	\$ 188.03
Cielo Networks	FTRJ-1319-P1BTL	Gigabit Ethernet Optical SFP Module, SMF, LC Connector, 1310 nm	\$ 361.33
Cielo Networks	HP10-59-D1A	10', 6 GHz HP Antenna, Single Polarization, PDR70 Flange	\$ 12,514.84
Cielo Networks	HP2-11R	2', 11 GHz HP Antenna	\$ 781.58
Cielo Networks	HP2-15R	2', 15 GHz HP Antenna	\$ 781.58
Cielo Networks	HP2-18R	2', 18 GHz HP Antenna	\$ 781.58
Cielo Networks	HP2-23R	2', 23 GHz HP Antenna	\$ 781.58
Cielo Networks	HP2-38R	2' 38 GHz HP Antenna	\$ 781.58
Cielo Networks	HP2-77R	2', 7/8 GHz HP Antenna	\$ 969.61
Cielo Networks	HP3-11R	3', 11 GHz HP Antenna	\$ 1,481.71
Cielo Networks	HP3-15R	3', 15 GHz HP Antenna	\$ 1,481.71
Cielo Networks	HP3-18R	3', 18 GHz HP Antenna	\$ 1,481.71
Cielo Networks	HP3-23R	3', 23 GHz HP Antenna	\$ 1,481.71
Cielo Networks	HP3-77R	3', 7/8 GHz HP Antenna	\$ 1,679.27
Cielo Networks	HP4-11R	4', 11 GHz HP Antenna	\$ 2,166.25
Cielo Networks	HP4-15R	4', 15 GHz HP Antenna	\$ 2,166.25
Cielo Networks	HP4-18R	4', 18 GHz HP Antenna	\$ 2,166.25
Cielo Networks	HP4-23R	4', 23 GHz HP Antenna	\$ 2,166.25
Cielo Networks	HP4-77R	4', 7/8 GHz HP Antenna	\$ 2,366.41
Cielo Networks	HP6-11R	6', 11 GHz HP Antenna	\$ 4,159.19
Cielo Networks	HP6-15R	6', 15 GHz HP Antenna	\$ 4,159.19
Cielo Networks	HP6-18R	6', 18 GHz HP Antenna	\$ 4,159.19
Cielo Networks	HP6-23R	6', 23 GHz HP Antenna	\$ 4,159.19
Cielo Networks	HP6-59-D1A	6 GHz, 6 foot antenna PDR Flange	\$ 6,074.16

Cielo Networks	HP6-59-D1A/K	6', 6 GHz HP Antenna, Single Polarization, PDR70 Flange	\$ 7,946.66
Cielo Networks	HP6-59RR	6', 6 GHz HP Antenna, Rectangular Waveguide	\$ 4,332.49
Cielo Networks	HP6-77R	6', 7/8 GHz HP Antenna	\$ 4,332.49
Cielo Networks	HP8-59-D1A	8', 6 GHz HP Antenna, Single Polarization, PDR70 Flange	\$ 9,868.80
Cielo Networks	HPLP1-23R	1', 23 GHz HP Antenna Low Profile,	\$ 575.36
Cielo Networks	HPLP1-38R	1' 38 GHz HP Antenna, Low Profile	\$ 575.36
Cielo Networks	HPX10-59-D1A	10', 6 GHz HP Antenna, Dual Polarization, PDR70 Flange	\$ 13,535.95
Cielo Networks	HPX6-59-D1A/K	6', 6 GHz HP Antenna, Dual Polarization, PDR70 Flange	\$ 8,420.63
Cielo Networks	HPX8-59-D1A	8', 6 GHz HP Antenna, Dual Polarization, PDR70 Flange	\$ 10,379.42
Cielo Networks	HSB-4660	Hot Standby Kit; Wideband Modem Module + Power Supply Module	\$ 2,166.25
Cielo Networks	HSB-XXR	2+0/1+1 dual ODU coupler, direct antenna mount, 6 dB, XX = frequency band, Cielo SkyLink ODU interfaces	\$ 1,516.37
Cielo Networks	OC-3155PCPL	OC-3 155 Mbs + FE @ 10 Mb* + 2T1* (1+1) - Protected - Coupler	\$ 1,390.73
Cielo Networks	OC-3155PIDU	OC-3 155 Mbs + FE @ 10 Mb* + 2T1* (1+1) - Protected - IDU	\$ 8,859.95
Cielo Networks	OC-3155PLINK	OC-3 155 Mbs + FE @ 10 Mb* + 2T1* (1+1) - Protected - Link	\$ 33,156.57
Cielo Networks	OC-3155PODU	OC-3 155 Mbs + FE @ 10 Mb* + 2T1* (1+1) - Protected - ODU	\$ 3,162.72
Cielo Networks	OC-3155UPIDU	OC-3 155 Mbs + FE @ 10 Mb* + 2T1* (1+0) - Unprotected - IDU	\$ 6,957.98
Cielo Networks	OC-3155UPLINK	OC-3 155 Mbs + FE @ 10 Mb* + 2T1* (1+0) - Unprotected - LINK	\$ 20,250.08
Cielo Networks	OC-3155UPODU	OC-3 155 Mbs + FE @ 10 Mb* + 2T1* (1+0) - Unprotected - ODU	\$ 3,162.72
Cielo Networks	P04-060252-00111-E000	ODU: 6G Wideband, T-R 252, RBW4, Band 1, Tx Low (5925 - 6025 MHz)	\$ 3,032.75
Cielo Networks	P04-060252-00211-E000	ODU: 6G Wideband, T-R 252, RBW4, Band 2, Tx Low (6000 - 6100 MHz)	\$ 3,032.75
Cielo Networks	P04-060252-00311-E000	ODU: 6G Wideband, T-R 252, RBW4, Band 3, Tx Low (6075 - 6175 MHz)	\$ 3,032.75
Cielo Networks	P04-060252-10111-E000	ODU: 6G Wideband, T-R 252, RBW4, Band 1, Tx High (6175 - 6275 MHz)	\$ 3,032.75
Cielo Networks	P04-060252-10211-E000	ODU: 6G Wideband, T-R 252, RBW4, Band 2, Tx High (6250 - 6350 MHz)	\$ 3,032.75
Cielo Networks	P04-060252-10311-E000	ODU: 6G Wideband, T-R 252, RBW4, Band 3, Tx High (6325 - 6425 MHz)	\$ 3,032.75
Cielo Networks	P04-070154-00111-E100	ODU: 7G Wideband, T-R 154, RBW4, Band 1, Tx Low (7428 - 7484 MHz)	\$ 3,032.75
Cielo Networks	P04-070154-00211-E100	ODU: 7G Wideband, T-R 154, RBW4, Band 2, Tx Low (7470 - 7526 MHz)	\$ 3,032.75
Cielo Networks	P04-070154-00311-E100	ODU: 7G Wideband, T-R 154, RBW4, Band 3, Tx Low (7512 - 7568 MHz)	\$ 3,032.75
Cielo Networks	P04-070154-10111-E100	ODU: 7G Wideband, T-R 154, RBW4, Band 1, Tx High (7582 - 7638 MHz)	\$ 3,032.75
Cielo Networks	P04-070154-10211-E100	ODU: 7G Wideband, T-R 154, RBW4, Band 2, Tx High (7624 - 7680 MHz)	\$ 3,032.75
Cielo Networks	P04-070154-10311-E100	ODU: 7G Wideband, T-R 154, RBW4, Band 3, Tx High (7666 - 7722 MHz)	\$ 3,032.75
Cielo Networks	P04-070160-00111-E100	ODU: 7G Wideband, T-R 160, RBW4, Band 1, Tx Low (7433.5 - 7496.5 MHz)	\$ 3,032.75
Cielo Networks	P04-070160-00211-E100	ODU: 7G Wideband, T-R 160, RBW4, Band 2, Tx Low (7478.5 - 7541.5 MHz)	\$ 3,032.75

Cielo Networks	P04-070160-00311-E100	ODU: 7G Wideband, T-R 160, RBW4, Band 3, Tx Low (7526 - 7589 MHz)	\$ 3,032.75
Cielo Networks	P04-070160-10111-E100	ODU: 7G Wideband, T-R 160, RBW4, Band 1, Tx High (7593.5 - 7656.5 MHz)	\$ 3,032.75
Cielo Networks	P04-070160-10211-E100	ODU: 7G Wideband, T-R 160, RBW4, Band 2, Tx High (7638.5 - 7701.5 MHz)	\$ 3,032.75
Cielo Networks	P04-070160-10311-E100	ODU: 7G Wideband, T-R 160, RBW4, Band 3, Tx High (7686 - 7749 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-00111-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 1, Tx Low (7114 - 7177 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-00211-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 2, Tx Low (7149 - 7212 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-00311-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 3, Tx Low (7184 - 7247 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-00411-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 4, Tx Low (7219 - 7282 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-00511-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 5, Tx Low (7239 - 7302 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-00611-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 6, Tx Low (7274 - 7337 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-00711-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 7, Tx Low (7309 - 7372 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-00811-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 8, Tx Low (7344 - 7407 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-00911-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 9, Tx Low (7414 - 7477 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-01011-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 10, Tx Low (7449 - 7512 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-02111-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 21, Tx Low (7484 - 7547 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-02211-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 22, Tx Low (7519 - 7582 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-02311-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 23, Tx Low (7539 - 7602 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-02411-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 24, Tx Low (7574 - 7637 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-02511-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 25, Tx Low (7609 - 7672 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-02611-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 26, Tx Low (7644 - 7707 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-10111-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 1, Tx High (7275 - 7338 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-10211-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 2, Tx High (7310 - 7373 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-10311-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 3, Tx High (7345 - 7408 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-10411-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 4, Tx High (7380 - 7443 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-10511-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 5, Tx High (7400 - 7463 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-10611-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 6, Tx High (7435 - 7498 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-10711-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 7, Tx High (7470 - 7533 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-10811-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 8, Tx High (7505 - 7568 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-10911-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 9, Tx High (7575 - 7638 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-11011-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 10, Tx High (7610 - 7673 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-12111-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 21, Tx High (7645 - 7708 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-12211-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 22, Tx High (7680 - 7743 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-12311-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 23, Tx High (7700 - 7763 MHz)	\$ 3,032.75

Cielo Networks	P04-070161-12411-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 24, Tx High (7735 - 7798 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-12511-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 25, Tx High (7770 - 7833 MHz)	\$ 3,032.75
Cielo Networks	P04-070161-12611-E100	ODU: 7G Wideband, T-R 161, RBW4, Band 26, Tx High (7805 - 7868 MHz)	\$ 3,032.75
Cielo Networks	P04-070168-00111-E100	ODU: 7G Wideband, T-R 168, RBW4, Band 1, Tx Low (7443 - 7499 MHz)	\$ 3,032.75
Cielo Networks	P04-070168-00211-E100	ODU: 7G Wideband, T-R 168, RBW4, Band 2, Tx Low (7485 - 7541 MHz)	\$ 3,032.75
Cielo Networks	P04-070168-00311-E100	ODU: 7G Wideband, T-R 168, RBW4, Band 3, Tx Low (7527 - 7583 MHz)	\$ 3,032.75
Cielo Networks	P04-070168-10111-E100	ODU: 7G Wideband, T-R 168, RBW4, Band 1, Tx High (7611 - 7667 MHz)	\$ 3,032.75
Cielo Networks	P04-070168-10211-E100	ODU: 7G Wideband, T-R 168, RBW4, Band 2, Tx High (7653 - 7709 MHz)	\$ 3,032.75
Cielo Networks	P04-070168-10311-E100	ODU: 7G Wideband, T-R 168, RBW4, Band 3, Tx High (7695 - 7751 MHz)	\$ 3,032.75
Cielo Networks	P04-070196-00111-E100	ODU: 7G Wideband, T-R 196, RBW4, Band 1, Tx Low (7093 - 7149 MHz)	\$ 3,032.75
Cielo Networks	P04-070196-00211-E100	ODU: 7G Wideband, T-R 196, RBW4, Band 2, Tx Low (7121 - 7177 MHz)	\$ 3,032.75
Cielo Networks	P04-070196-00311-E100	ODU: 7G Wideband, T-R 196, RBW4, Band 3, Tx Low (7149 - 7205 MHz)	\$ 3,032.75
Cielo Networks	P04-070196-00411-E100	ODU: 7G Wideband, T-R 196, RBW4, Band 4, Tx Low (7177 - 7233 MHz)	\$ 3,032.75
Cielo Networks	P04-070196-00511-E100	ODU: 7G Wideband, T-R 196, RBW4, Band 5, Tx Low (7205 - 7261 MHz)	\$ 3,032.75
Cielo Networks	P04-070196-10111-E100	ODU: 7G Wideband, T-R 196, RBW4, Band 1, Tx High (7289 - 7345 MHz)	\$ 3,032.75
Cielo Networks	P04-070196-10211-E100	ODU: 7G Wideband, T-R 196, RBW4, Band 2, Tx High (7317 - 7373 MHz)	\$ 3,032.75
Cielo Networks	P04-070196-10311-E100	ODU: 7G Wideband, T-R 196, RBW4, Band 3, Tx High (7345 - 7401 MHz)	\$ 3,032.75
Cielo Networks	P04-070196-10411-E100	ODU: 7G Wideband, T-R 196, RBW4, Band 4, Tx High (7373 - 7429 MHz)	\$ 3,032.75
Cielo Networks	P04-070196-10511-E100	ODU: 7G Wideband, T-R 196, RBW4, Band 5, Tx High (7401 - 7457 MHz)	\$ 3,032.75
Cielo Networks	P04-070245-00111-E100	ODU: 7G Wideband, T-R 245, RBW4, Band 1, Tx Low (7400 - 7484 MHz)	\$ 3,032.75
Cielo Networks	P04-070245-00211-E100	ODU: 7G Wideband, T-R 245, RBW4, Band 2, Tx Low (7484 - 7568 MHz)	\$ 3,032.75
Cielo Networks	P04-070245-00311-E100	ODU: 7G Wideband, T-R 245, RBW4, Band 3, Tx Low (7568 - 7652 MHz)	\$ 3,032.75
Cielo Networks	P04-070245-10111-E100	ODU: 7G Wideband, T-R 245, RBW4, Band 1, Tx High (7645 - 7729 MHz)	\$ 3,032.75
Cielo Networks	P04-070245-10211-E100	ODU: 7G Wideband, T-R 245, RBW4, Band 2, Tx High (7729 - 7813 MHz)	\$ 3,032.75
Cielo Networks	P04-070245-10311-E100	ODU: 7G Wideband, T-R 245, RBW4, Band 3, Tx High (7813 - 7897 MHz)	\$ 3,032.75
Cielo Networks	P04-080119-00111-E100	ODU: 8G Wideband, T-R 119, RBW4, Band 1, Tx Low (8279 - 8307 MHz)	\$ 3,032.75
Cielo Networks	P04-080119-00211-E100	ODU: 8G Wideband, T-R 119, RBW4, Band 2, Tx Low (8293 - 8321 MHz)	\$ 3,032.75
Cielo Networks	P04-080119-00311-E100	ODU: 8G Wideband, T-R 119, RBW4, Band 3, Tx Low (8307 - 8335 MHz)	\$ 3,032.75
Cielo Networks	P04-080119-00411-E100	ODU: 8G Wideband, T-R 119, RBW4, Band 4, Tx Low (8321 - 8349 MHz)	\$ 3,032.75
Cielo Networks	P04-080119-00511-E100	ODU: 8G Wideband, T-R 119, RBW4, Band 5, Tx Low (8335 - 8363 MHz)	\$ 3,032.75
Cielo Networks	P04-080119-00611-E100	ODU: 8G Wideband, T-R 119, RBW4, Band 6, Tx Low (8349 - 8377 MHz)	\$ 3,032.75
Cielo Networks	P04-080119-10111-E100	ODU: 8G Wideband, T-R 119, RBW4, Band 1, Tx High (8398 - 8426 MHz)	\$ 3,032.75
Cielo Networks	P04-080119-10211-E100	ODU: 8G Wideband, T-R 119, RBW4, Band 2, Tx High (8412 - 8440 MHz)	\$ 3,032.75

Cielo Networks	P04-080119-10311-E100	ODU: 8G Wideband, T-R 119, RBW4, Band 3, Tx High (8426 - 8454 MHz)	\$ 3,032.75
Cielo Networks	P04-080119-10411-E100	ODU: 8G Wideband, T-R 119, RBW4, Band 4, Tx High (8440 - 8468 MHz)	\$ 3,032.75
Cielo Networks	P04-080119-10511-E100	ODU: 8G Wideband, T-R 119, RBW4, Band 5, Tx High (8454 - 8482 MHz)	\$ 3,032.75
Cielo Networks	P04-080119-10611-E100	ODU: 8G Wideband, T-R 119, RBW4, Band 6, Tx High (8468 - 8496 MHz)	\$ 3,032.75
Cielo Networks	P04-080151-00111-E100	ODU: 8G Wideband, T-R 151, RBW4, Band 1, Tx Low (8203 - 8271 MHz)	\$ 3,032.75
Cielo Networks	P04-080151-00211-E100	ODU: 8G Wideband, T-R 151, RBW4, Band 2, Tx Low (8240 - 8308 MHz)	\$ 3,032.75
Cielo Networks	P04-080151-00311-E100	ODU: 8G Wideband, T-R 151, RBW4, Band 3, Tx Low (8277 - 8345 MHz)	\$ 3,032.75
Cielo Networks	P04-080151-10111-E100	ODU: 8G Wideband, T-R 151, RBW4, Band 1, Tx High (8355 - 8423 MHz)	\$ 3,032.75
Cielo Networks	P04-080151-10211-E100	ODU: 8G Wideband, T-R 151, RBW4, Band 2, Tx High (8392 - 8460 MHz)	\$ 3,032.75
Cielo Networks	P04-080151-10311-E100	ODU: 8G Wideband, T-R 151, RBW4, Band 3, Tx High (8429 - 8497 MHz)	\$ 3,032.75
Cielo Networks	P04-080208-00111-E100	ODU: 8G Wideband, T-R 208, RBW4, Band 1, Tx Low (8043 - 8113 MHz)	\$ 3,032.75
Cielo Networks	P04-080208-00211-E100	ODU: 8G Wideband, T-R 208, RBW4, Band 2, Tx Low (8099 - 8169 MHz)	\$ 3,032.75
Cielo Networks	P04-080208-00311-E100	ODU: 8G Wideband, T-R 208, RBW4, Band 3, Tx Low (8155 - 8225 MHz)	\$ 3,032.75
Cielo Networks	P04-080208-00411-E100	ODU: 8G Wideband, T-R 208, RBW4, Band 4, Tx Low (8211 - 8281 MHz)	\$ 3,032.75
Cielo Networks	P04-080208-10111-E100	ODU: 8G Wideband, T-R 208, RBW4, Band 1, Tx High (8251 - 8321 MHz)	\$ 3,032.75
Cielo Networks	P04-080208-10211-E100	ODU: 8G Wideband, T-R 208, RBW4, Band 2, Tx High (8307 - 8377 MHz)	\$ 3,032.75
Cielo Networks	P04-080208-10311-E100	ODU: 8G Wideband, T-R 208, RBW4, Band 3, Tx High (8363 - 8433 MHz)	\$ 3,032.75
Cielo Networks	P04-080208-10411-E100	ODU: 8G Wideband, T-R 208, RBW4, Band 4, Tx High (8419 - 8489 MHz)	\$ 3,032.75
Cielo Networks	P04-080266-00111-E100	ODU: 8G Wideband, T-R 266, RBW4, Band 1, Tx Low (7905 - 8024 MHz)	\$ 3,032.75
Cielo Networks	P04-080266-00211-E100	ODU: 8G Wideband, T-R 266, RBW4, Band 2, Tx Low (8017 - 8136 MHz)	\$ 3,032.75
Cielo Networks	P04-080266-10111-E100	ODU: 8G Wideband, T-R 266, RBW4, Band 1, Tx High (8171 - 8290 MHz)	\$ 3,032.75
Cielo Networks	P04-080266-10211-E100	ODU: 8G Wideband, T-R 266, RBW4, Band 2, Tx High (8283 - 8402 MHz)	\$ 3,032.75
Cielo Networks	P04-080311-00111-E100	ODU: 8G Wideband, T-R 311, RBW4, Band 1, Tx Low (7731 - 7867 MHz)	\$ 3,032.75
Cielo Networks	P04-080311-00211-E100	ODU: 8G Wideband, T-R 311, RBW4, Band 2, Tx Low (7835 - 7971 MHz)	\$ 3,032.75
Cielo Networks	P04-080311-00311-E100	ODU: 8G Wideband, T-R 311, RBW4, Band 3, Tx Low (7717 - 7867 MHz)	\$ 3,032.75
Cielo Networks	P04-080311-10111-E100	ODU: 8G Wideband, T-R 311, RBW4, Band 1, Tx High (8042 - 8178 MHz)	\$ 3,032.75
Cielo Networks	P04-080311-10211-E100	ODU: 8G Wideband, T-R 311, RBW4, Band 2, Tx High (8146 - 8282 MHz)	\$ 3,032.75
Cielo Networks	P04-080311-10311-E100	ODU: 8G Wideband, T-R 311, RBW4, Band 3, Tx High (8028 - 8178 MHz)	\$ 3,032.75
Cielo Networks	P04-110490-00511-E100	ODU: 11G Wideband, T-R 490, RBW4, Band 5, Tx Low (10700 - 10890 MHz)	\$ 3,032.75
Cielo Networks	P04-110490-00611-E100	ODU: 11G Wideband, T-R 490, RBW4, Band 6, Tx Low (10855 - 11045 MHz)	\$ 3,032.75
Cielo Networks	P04-110490-00711-E100	ODU: 11G Wideband, T-R 490, RBW4, Band 7, Tx Low (11010 - 11200 MHz)	\$ 3,032.75
Cielo Networks	P04-110490-10511-E100	ODU: 11G Wideband, T-R 490, RBW4, Band 5, Tx High (11200 - 11390 MHz)	\$ 3,032.75
Cielo Networks	P04-110490-10611-E100	ODU: 11G Wideband, T-R 490, RBW4, Band 6, Tx High (11355 - 11545 MHz)	\$ 3,032.75

Cielo Networks	P04-110490-10711-E100	ODU: 11G Wideband, T-R 490, RBW4, Band 7, Tx High (11510 - 11700 MHz)	\$ 3,032.75
Cielo Networks	P04-110530-00111-E100	ODU: 11G Wideband, T-R 530, RBW4, Band 1, Tx Low (10675 - 10855 MHz)	\$ 3,032.75
Cielo Networks	P04-110530-00211-E100	ODU: 11G Wideband, T-R 530, RBW4, Band 2, Tx Low (10795 - 10975 MHz)	\$ 3,032.75
Cielo Networks	P04-110530-00311-E100	ODU: 11G Wideband, T-R 530, RBW4, Band 3, Tx Low (10915 - 11135 MHz)	\$ 3,032.75
Cielo Networks	P04-110530-00411-E100	ODU: 11G Wideband, T-R 530, RBW4, Band 4, Tx Low (11035 - 11215 MHz)	\$ 3,032.75
Cielo Networks	P04-110530-10111-E100	ODU: 11G Wideband, T-R 530, RBW4, Band 1, Tx High (11205 - 11385 MHz)	\$ 3,032.75
Cielo Networks	P04-110530-10211-E100	ODU: 11G Wideband, T-R 530, RBW4, Band 2, Tx High (11325 - 11505 MHz)	\$ 3,032.75
Cielo Networks	P04-110530-10311-E100	ODU: 11G Wideband, T-R 530, RBW4, Band 3, Tx High (11445 - 11665 MHz)	\$ 3,032.75
Cielo Networks	P04-110530-10411-E100	ODU: 11G Wideband, T-R 530, RBW4, Band 4, Tx High (11565 - 11745 MHz)	\$ 3,032.75
Cielo Networks	P04-130266-00111-E100	ODU: 13G Wideband, T-R 266, RBW4, Band 1, Tx Low (12751 - 12814 MHz)	\$ 3,032.75
Cielo Networks	P04-130266-00211-E100	ODU: 13G Wideband, T-R 266, RBW4, Band 2, Tx Low (12807 - 12870 MHz)	\$ 3,032.75
Cielo Networks	P04-130266-00311-E100	ODU: 13G Wideband, T-R 266, RBW4, Band 3, Tx Low (12863 - 12926 MHz)	\$ 3,032.75
Cielo Networks	P04-130266-00411-E100	ODU: 13G Wideband, T-R 266, RBW4, Band 4, Tx Low (12919 - 12982 MHz)	\$ 3,032.75
Cielo Networks	P04-130266-10111-E100	ODU: 13G Wideband, T-R 266, RBW4, Band 1, Tx High (13017 - 13080 MHz)	\$ 3,032.75
Cielo Networks	P04-130266-10211-E100	ODU: 13G Wideband, T-R 266, RBW4, Band 2, Tx High (13073 - 13136 MHz)	\$ 3,032.75
Cielo Networks	P04-130266-10311-E100	ODU: 13G Wideband, T-R 266, RBW4, Band 3, Tx High (13129 - 13192 MHz)	\$ 3,032.75
Cielo Networks	P04-130266-10411-E100	ODU: 13G Wideband, T-R 266, RBW4, Band 4, Tx High (13185 - 13248 MHz)	\$ 3,032.75
Cielo Networks	P04-150315-00111-E100	ODU: 15G Wideband, T-R 315, RBW4, Band 1, Tx Low (14627 - 14746 MHz)	\$ 3,032.75
Cielo Networks	P04-150315-00211-E100	ODU: 15G Wideband, T-R 315, RBW4, Band 2, Tx Low (14725 - 14844 MHz)	\$ 3,032.75
Cielo Networks	P04-150315-00311-E100	ODU: 15G Wideband, T-R 315, RBW4, Band 3, Tx Low (14823 - 14942 MHz)	\$ 3,032.75
Cielo Networks	P04-150315-10111-E100	ODU: 15G Wideband, T-R 315, RBW4, Band 1, Tx High (14942 - 15061 MHz)	\$ 3,032.75
Cielo Networks	P04-150315-10211-E100	ODU: 15G Wideband, T-R 315, RBW4, Band 2, Tx High (15040 - 15159 MHz)	\$ 3,032.75
Cielo Networks	P04-150315-10311-E100	ODU: 15G Wideband, T-R 315, RBW4, Band 3, Tx High (15138 - 15257 MHz)	\$ 3,032.75
Cielo Networks	P04-150420-00411-E100	ODU: 15G Wideband, T-R 420, RBW4, Band 4, Tx Low (14501 - 14613 MHz)	\$ 3,032.75
Cielo Networks	P04-150420-00511-E100	ODU: 15G Wideband, T-R 420, RBW4, Band 5, Tx Low (14606 - 14725 MHz)	\$ 3,032.75
Cielo Networks	P04-150420-00611-E100	ODU: 15G Wideband, T-R 420, RBW4, Band 6, Tx Low (14718 - 14837 MHz)	\$ 3,032.75
Cielo Networks	P04-150420-00711-E100	ODU: 15G Wideband, T-R 420, RBW4, Band 7, Tx Low (14816 - 14928 MHz)	\$ 3,032.75
Cielo Networks	P04-150420-10411-E100	ODU: 15G Wideband, T-R 420, RBW4, Band 4, Tx High (14921 - 15033 MHz)	\$ 3,032.75
Cielo Networks	P04-150420-10511-E100	ODU: 15G Wideband, T-R 420, RBW4, Band 5, Tx High (15026 - 15145 MHz)	\$ 3,032.75
Cielo Networks	P04-150420-10611-E100	ODU: 15G Wideband, T-R 420, RBW4, Band 6, Tx High (15138 - 15257 MHz)	\$ 3,032.75
Cielo Networks	P04-150420-10711-E100	ODU: 15G Wideband, T-R 420, RBW4, Band 7, Tx High (15236 - 15348 MHz)	\$ 3,032.75
Cielo Networks	P04-150475-00111-E100	ODU: 15G Wideband, T-R 475, RBW4, Band 1, Tx Low (14500 - 14668 MHz)	\$ 3,032.75
Cielo Networks	P04-150475-00211-E100	ODU: 15G Wideband, T-R 475, RBW4, Band 2, Tx Low (14660 - 14828 MHz)	\$ 3,032.75

Cielo Networks	P04-150475-00311-E100	ODU: 15G Wideband, T-R 475, RBW4, Band 3, Tx Low (14783 - 14883 MHz)	\$ 3,032.75
Cielo Networks	P04-150475-10111-E100	ODU: 15G Wideband, T-R 475, RBW4, Band 1, Tx High (14975 - 15143 MHz)	\$ 3,032.75
Cielo Networks	P04-150475-10211-E100	ODU: 15G Wideband, T-R 475, RBW4, Band 2, Tx High (15135 - 15303 MHz)	\$ 3,032.75
Cielo Networks	P04-150475-10311-E100	ODU: 15G Wideband, T-R 475, RBW4, Band 3, Tx High (15258 - 15358 MHz)	\$ 3,032.75
Cielo Networks	P04-150490-00411-E100	ODU: 15G Wideband, T-R 490, RBW4, Band 4, Tx Low (14403 - 14522 MHz)	\$ 3,032.75
Cielo Networks	P04-150490-00511-E100	ODU: 15G Wideband, T-R 490, RBW4, Band 5, Tx Low (14515 - 14634 MHz)	\$ 3,032.75
Cielo Networks	P04-150490-00611-E100	ODU: 15G Wideband, T-R 490, RBW4, Band 6, Tx Low (14627 - 14746 MHz)	\$ 3,032.75
Cielo Networks	P04-150490-00711-E100	ODU: 15G Wideband, T-R 490, RBW4, Band 7, Tx Low (14739 - 14858 MHz)	\$ 3,032.75
Cielo Networks	P04-150490-10411-E100	ODU: 15G Wideband, T-R 490, RBW4, Band 4, Tx High (14893 - 15012 MHz)	\$ 3,032.75
Cielo Networks	P04-150490-10511-E100	ODU: 15G Wideband, T-R 490, RBW4, Band 5, Tx High (15005 - 15124 MHz)	\$ 3,032.75
Cielo Networks	P04-150490-10611-E100	ODU: 15G Wideband, T-R 490, RBW4, Band 6, Tx High (15117 - 15236 MHz)	\$ 3,032.75
Cielo Networks	P04-150490-10711-E100	ODU: 15G Wideband, T-R 490, RBW4, Band 7, Tx High (15229 - 15348 MHz)	\$ 3,032.75
Cielo Networks	P04-150640-00111-E100	ODU: 15G Wideband, T-R 640, RBW4, Band 1, Tx Low (14500 - 14610 MHz)	\$ 3,032.75
Cielo Networks	P04-150640-00211-E100	ODU: 15G Wideband, T-R 640, RBW4, Band 2, Tx Low (14605 - 14715 MHz)	\$ 3,032.75
Cielo Networks	P04-150640-10111-E100	ODU: 15G Wideband, T-R 640, RBW4, Band 1, Tx High (15140 - 15250 MHz)	\$ 3,032.75
Cielo Networks	P04-150640-10211-E100	ODU: 15G Wideband, T-R 640, RBW4, Band 2, Tx High (15245 - 15355 MHz)	\$ 3,032.75
Cielo Networks	P04-150644-00111-E100	ODU: 15G Wideband, T-R 644, RBW4, Band 1, Tx Low (14400 - 14512 MHz)	\$ 3,032.75
Cielo Networks	P04-150644-00211-E100	ODU: 15G Wideband, T-R 644, RBW4, Band 2, Tx Low (14498 - 14610 MHz)	\$ 3,032.75
Cielo Networks	P04-150644-00311-E100	ODU: 15G Wideband, T-R 644, RBW4, Band 3, Tx Low (14596 - 14708 MHz)	\$ 3,032.75
Cielo Networks	P04-150644-10111-E100	ODU: 15G Wideband, T-R 644, RBW4, Band 1, Tx High (15044 - 15156 MHz)	\$ 3,032.75
Cielo Networks	P04-150644-10211-E100	ODU: 15G Wideband, T-R 644, RBW4, Band 2, Tx High (15142 - 15254 MHz)	\$ 3,032.75
Cielo Networks	P04-150644-10311-E100	ODU: 15G Wideband, T-R 644, RBW4, Band 3, Tx High (15240 - 15352 MHz)	\$ 3,032.75
Cielo Networks	P04-150728-00211-E100	ODU: 15G Wideband, T-R 728, RBW4, Band 2, Tx Low (14500 - 14625 MHz)	\$ 3,032.75
Cielo Networks	P04-150728-10211-E100	ODU: 15G Wideband, T-R 728, RBW4, Band 2, Tx High (15228 - 15353 MHz)	\$ 3,032.75
Cielo Networks	P04-181010-00111-E100	ODU: 18G Wideband, T-R 1010, RBW4, Band 1, Tx Low (17685 - 17985 MHz)	\$ 3,032.75
Cielo Networks	P04-181010-00211-E100	ODU: 18G Wideband, T-R 1010, RBW4, Band 2, Tx Low (17930 - 18230 MHz)	\$ 3,032.75
Cielo Networks	P04-181010-00311-E100	ODU: 18G Wideband, T-R 1010, RBW4, Band 3, Tx Low (18180 - 18480 MHz)	\$ 3,032.75
Cielo Networks	P04-181010-00411-E100	ODU: 18G Wideband, T-R 1010, RBW4, Band 4, Tx Low (18400 - 18700 MHz)	\$ 3,032.75
Cielo Networks	P04-181010-10111-E100	ODU: 18G Wideband, T-R 1010, RBW4, Band 1, Tx High (18695 - 18995 MHz)	\$ 3,032.75
Cielo Networks	P04-181010-10211-E100	ODU: 18G Wideband, T-R 1010, RBW4, Band 2, Tx High (18940 - 19240 MHz)	\$ 3,032.75
Cielo Networks	P04-181010-10311-E100	ODU: 18G Wideband, T-R 1010, RBW4, Band 3, Tx High (19190 - 19490 MHz)	\$ 3,032.75
Cielo Networks	P04-181010-10411-E100	ODU: 18G Wideband, T-R 1010, RBW4, Band 4, Tx High (19410 - 19710 MHz)	\$ 3,032.75
Cielo Networks	P04-181092-00111-E100	ODU: 18G Wideband, T-R 1092, RBW4, Band 1, Tx Low (17700 - 18060 MHz)	\$ 3,032.75

Cielo Networks	P04-181092-00211-E100	ODU: 18G Wideband, T-R 1092, RBW4, Band 2, Tx Low (17975 - 18335 MHz)	\$ 3,032.75
Cielo Networks	P04-181092-00311-E100	ODU: 18G Wideband, T-R 1092, RBW4, Band 3, Tx Low (18235 - 18595 MHz)	\$ 3,032.75
Cielo Networks	P04-181092-10111-E100	ODU: 18G Wideband, T-R 1092, RBW4, Band 1, Tx High (18805 - 19165 MHz)	\$ 3,032.75
Cielo Networks	P04-181092-10211-E100	ODU: 18G Wideband, T-R 1092, RBW4, Band 2, Tx High (19080 - 19440 MHz)	\$ 3,032.75
Cielo Networks	P04-181092-10311-E100	ODU: 18G Wideband, T-R 1092, RBW4, Band 3, Tx High (19340 - 19700 MHz)	\$ 3,032.75
Cielo Networks	P04-181560-00311-E100	ODU: 18G Wideband, T-R 1560, RBW4, Band 3, Tx Low (17700 - 18140 MHz)	\$ 3,032.75
Cielo Networks	P04-181560-10311-E100	ODU: 18G Wideband, T-R 1560, RBW4, Band 3, Tx High (19260 - 19700 MHz)	\$ 3,032.75
Cielo Networks	P04-231008-00111-E100	ODU: 23G Wideband, T-R 1008, RBW4, Band 1, Tx Low (21994 - 22330 MHz)	\$ 3,032.75
Cielo Networks	P04-231008-00211-E100	ODU: 23G Wideband, T-R 1008, RBW4, Band 2, Tx Low (22274 - 22610 MHz)	\$ 3,032.75
Cielo Networks	P04-231008-10111-E100	ODU: 23G Wideband, T-R 1008, RBW4, Band 1, Tx High (23002 - 23338 MHz)	\$ 3,032.75
Cielo Networks	P04-231008-10211-E100	ODU: 23G Wideband, T-R 1008, RBW4, Band 2, Tx High (23282 - 23618 MHz)	\$ 3,032.75
Cielo Networks	P04-231200-00311-E100	ODU: 23G Wideband, T-R 1200, RBW4, Band 3, Tx Low (21780 - 22110 MHz). Covers 6 low power channels.	\$ 3,032.75
Cielo Networks	P04-231200-00511-E100	ODU: 23G Wideband, T-R 1200, RBW4, Band 5, Tx Low (21200 - 21600 MHz)	\$ 3,032.75
Cielo Networks	P04-231200-00611-E100	ODU: 23G Wideband, T-R 1200, RBW4, Band 6, Tx Low (21600 - 22000 MHz)	\$ 3,032.75
Cielo Networks	P04-231200-00711-E100	ODU: 23G Wideband, T-R 1200, RBW4, Band 7, Tx Low (22000 - 22400 MHz)	\$ 3,032.75
Cielo Networks	P04-231200-10311-E100	ODU: 23G Wideband, T-R 1200, RBW4, Band 3, Tx High (22980 - 23310 MHz) Covers 6 low power channels.	\$ 3,032.75
Cielo Networks	P04-231200-10511-E100	ODU: 23G Wideband, T-R 1200, RBW4, Band 5, Tx High (22400 - 22800 MHz)	\$ 3,032.75
Cielo Networks	P04-231200-10611-E100	ODU: 23G Wideband, T-R 1200, RBW4, Band 6, Tx High (22800 - 23200 MHz)	\$ 3,032.75
Cielo Networks	P04-231200-10711-E100	ODU: 23G Wideband, T-R 1200, RBW4, Band 7, Tx High (23200 - 23600 MHz)	\$ 3,032.75
Cielo Networks	P04-231232-00111-E100	ODU: 23G Wideband, T-R 1232, RBW4, Band 1, Tx Low (21200 - 21500 MHz)	\$ 3,032.75
Cielo Networks	P04-231232-00211-E100	ODU: 23G Wideband, T-R 1232, RBW4, Band 2, Tx Low (21472 - 21786 MHz)	\$ 3,032.75
Cielo Networks	P04-231232-00311-E100	ODU: 23G Wideband, T-R 1232, RBW4, Band 3, Tx Low (21779 - 22093 MHz)	\$ 3,032.75
Cielo Networks	P04-231232-00411-E100	ODU: 23G Wideband, T-R 1232, RBW4, Band 4, Tx Low (22086 - 22386 MHz)	\$ 3,032.75
Cielo Networks	P04-231232-10111-E100	ODU: 23G Wideband, T-R 1232, RBW4, Band 1, Tx High (22432 - 22732 MHz)	\$ 3,032.75
Cielo Networks	P04-231232-10211-E100	ODU: 23G Wideband, T-R 1232, RBW4, Band 2, Tx High (22704 - 23018 MHz)	\$ 3,032.75
Cielo Networks	P04-231232-10311-E100	ODU: 23G Wideband, T-R 1232, RBW4, Band 3, Tx High (23011 - 23325 MHz)	\$ 3,032.75
Cielo Networks	P04-231232-10411-E100	ODU: 23G Wideband, T-R 1232, RBW4, Band 4, Tx High (23318 - 23618 MHz)	\$ 3,032.75
Cielo Networks	P04-260800-00111-E100	ODU: 26G Wideband, T-R 800, RBW4, Band 1, Tx Low (24250 - 24500 MHz)	\$ 3,032.75
Cielo Networks	P04-260800-10111-E100	ODU: 26G Wideband, T-R 800, RBW4, Band 1, Tx High (25050 - 25250 MHz)	\$ 3,032.75
Cielo Networks	P04-261008-00111-E100	ODU: 26G Wideband, T-R 1008, RBW4, Band 1, Tx Low (24549 - 24885 MHz)	\$ 3,032.75
Cielo Networks	P04-261008-00211-E100	ODU: 26G Wideband, T-R 1008, RBW4, Band 2, Tx Low (24829 - 25165 MHz)	\$ 3,032.75

Cielo Networks	P04-261008-00311-E100	ODU: 26G Wideband, T-R 1008, RBW4, Band 3, Tx Low (25109 - 25445 MHz)	\$ 3,032.75
Cielo Networks	P04-261008-10111-E100	ODU: 26G Wideband, T-R 1008, RBW4, Band 1, Tx High (25557 - 25893 MHz)	\$ 3,032.75
Cielo Networks	P04-261008-10211-E100	ODU: 26G Wideband, T-R 1008, RBW4, Band 2, Tx High (25837 - 26173 MHz)	\$ 3,032.75
Cielo Networks	P04-261008-10311-E100	ODU: 26G Wideband, T-R 1008, RBW4, Band 3, Tx High (26117 - 26453 MHz)	\$ 3,032.75
Cielo Networks	P04-281008-00111-E100	ODU: 28G Wideband, T-R 1008, RBW4, Band 1, Tx Low (27520 - 28025 MHz)	\$ 3,032.75
Cielo Networks	P04-281008-00211-E100	ODU: 28G Wideband, T-R 1008, RBW4, Band 2, Tx Low (27968 - 28473 MHz)	\$ 3,032.75
Cielo Networks	P04-281008-10111-E100	ODU: 28G Wideband, T-R 1008, RBW4, Band 1, Tx High (28528 - 29033 MHz)	\$ 3,032.75
Cielo Networks	P04-281008-10211-E100	ODU: 28G Wideband, T-R 1008, RBW4, Band 2, Tx High (28976 - 29481 MHz)	\$ 3,032.75
Cielo Networks	P04-320812-00111-E100	ODU: 32G Wideband, T-R 812, RBW4, Band 1, Tx Low (31815 - 32207 MHz)	\$ 3,032.75
Cielo Networks	P04-320812-00211-E100	ODU: 32G Wideband, T-R 812, RBW4, Band 2, Tx Low (32179 - 32571 MHz)	\$ 3,032.75
Cielo Networks	P04-320812-10111-E100	ODU: 32G Wideband, T-R 812, RBW4, Band 1, Tx High (32627 - 33019 MHz)	\$ 3,032.75
Cielo Networks	P04-320812-10211-E100	ODU: 32G Wideband, T-R 812, RBW4, Band 2, Tx High (32991 - 33383 MHz)	\$ 3,032.75
Cielo Networks	P04-380700-00111-E100	ODU: 38G Wideband, T-R 700, RBW4, Band 1, Tx Low (38595 - 38805 MHz)	\$ 3,032.75
Cielo Networks	P04-380700-00211-E100	ODU: 38G Wideband, T-R 700, RBW4, Band 2, Tx Low (38795 - 39005 MHz)	\$ 3,032.75
Cielo Networks	P04-380700-00311-E100	ODU: 38G Wideband, T-R 700, RBW4, Band 3, Tx Low (38995 - 39205 MHz)	\$ 3,032.75
Cielo Networks	P04-380700-00411-E100	ODU: 38G Wideband, T-R 700, RBW4, Band 4, Tx Low (39195 - 39405 MHz)	\$ 3,032.75
Cielo Networks	P04-380700-10111-E100	ODU: 38G Wideband, T-R 700, RBW4, Band 1, Tx High (39295 - 39505 MHz)	\$ 3,032.75
Cielo Networks	P04-380700-10211-E100	ODU: 38G Wideband, T-R 700, RBW4, Band 2, Tx High (39495 - 39705 MHz)	\$ 3,032.75
Cielo Networks	P04-380700-10311-E100	ODU: 38G Wideband, T-R 700, RBW4, Band 3, Tx High (39695 - 39905 MHz)	\$ 3,032.75
Cielo Networks	P04-380700-10411-E100	ODU: 38G Wideband, T-R 700, RBW4, Band 4, Tx High (39895 - 40105 MHz)	\$ 3,032.75
Cielo Networks	P04-381260-00111-E100	ODU: 38G Wideband, T-R 1260, RBW4, Band 1, Tx Low (37044 - 37632 MHz)	\$ 3,032.75
Cielo Networks	P04-381260-00211-E100	ODU: 38G Wideband, T-R 1260, RBW4, Band 2, Tx Low (37604 - 38192 MHz)	\$ 3,032.75
Cielo Networks	P04-381260-10111-E100	ODU: 38G Wideband, T-R 1260, RBW4, Band 1, Tx High (38304 - 38892 MHz)	\$ 3,032.75
Cielo Networks	P04-381260-10211-E100	ODU: 38G Wideband, T-R 1260, RBW4, Band 2, Tx High (38864 - 39452 MHz)	\$ 3,032.75
Cielo Networks	SDIDU-CNG2A13G000	SkyLink GigE @ 50 Mbps + 2T1 Wideband SDIDU	\$ 3,682.62
Cielo Networks	SDIDU-CNG2A24G000	SkyLink GigE @ 50 Mbps + 2T1 Wideband SDIDU, 1+1 or 2+0 E-W	\$ 4,982.37
Cielo Networks	SDIDU-CNG3A13G000	SkyLink GigE @ 100 Mbps + 2T1 Wideband SDIDU	\$ 4,115.87
Cielo Networks	SDIDU-CNG3A24G000	SkyLink GigE @ 100 Mbps + 2T1 Wideband SDIDU, 1+1 or 2+0 E-W	\$ 5,415.62
Cielo Networks	SDIDU-CNG4A13G000	SkyLink GigE @ 150 Mbps + 2T1 Wideband SDIDU	\$ 4,549.12
Cielo Networks	SDIDU-CNG4A24G000	SkyLink GigE @ 150 Mbps + 2T1 Wideband SDIDU, 1+1 or 2+0 E-W	\$ 5,848.87
Cielo Networks	SDIDU-CNG5A13G000	SkyLink GigE @ 200 Mbps + 2T1 Wideband SDIDU	\$ 4,982.37
Cielo Networks	SDIDU-CNG5A24G000	SkyLink GigE @ 200 Mbps + 2T1 Wideband SDIDU, 1+1 or 2+0 E-W	\$ 6,282.12
Cielo Networks	SDIDU-CNG6A13G000	SkyLink GigE @ 250 Mbps + 2T1 Wideband SDIDU	\$ 5,415.62

Cielo Networks	SDIDU-CNG6A24G000	SkyLink GigE @ 250 Mbps + 2T1 Wideband SDIDU, 1+1 or 2+0 E-W	\$ 6,715.37
Cielo Networks	SDIDU-CNG7A13G000	SkyLink GigE @ 300 Mbps + 2T1 Wideband SDIDU	\$ 5,848.87
Cielo Networks	SDIDU-CNG7A24G000	SkyLink GigE @ 300 Mbps + 2T1 Wideband SDIDU, 1+1 or 2+0 E-W	\$ 7,148.61
Cielo Networks	SDIDU-CNGAA24G000	SkyLink GigE @ 200 Mbps + 2T1 Wideband SDIDU, 2+0 E-E	\$ 6,498.74
Cielo Networks	SDIDU-CNGBA24G000	SkyLink GigE @ 300 Mbps + 2T1 Wideband SDIDU, 2+0 E-E	\$ 7,365.24
Cielo Networks	SDIDU-CNGDA24G000	SkyLink GigE @ 500 Mbps + 2T1 Wideband SDIDU, 2+0 E-E	\$ 9,098.24
Cielo Networks	SDIDU-CNGEA24G000	SkyLink GigE @ 600 Mbps + 2T1 Wideband SDIDU, 2+0 E-E	\$ 9,964.74
Cielo Networks	SDIDU-CNW1A13A000	SkyLink FE @ 20 Mbps + 2 T1 Wideband SDIDU	\$ 2,382.87
Cielo Networks	SDIDU-CNW1A24A000	SkyLink FE @ 20 Mbps + 2T1 Wideband SDIDU, 1+1 or 2+0 E-W	\$ 3,682.62
Cielo Networks	SDIDU-CNW2A13A000	SkyLink FE @ 50 Mbps + 2 T1 Wideband SDIDU	\$ 2,816.12
Cielo Networks	SDIDU-CNW2A24A000	SkyLink FE @ 50 Mbps + 2T1 Wideband SDIDU, 1+1 or 2+0 E-W	\$ 4,115.87
Cielo Networks	SDIDU-CNW3A13A000	SkyLink FE @ 100 Mbps + 2T1 Wideband SDIDU	\$ 3,249.37
Cielo Networks	SDIDU-CNW3A24A000	SkyLink FE @ 100 Mbps + 2T1 Wideband SDIDU, 1+1 or 2+0 E-W	\$ 4,549.12
Cielo Networks	SDIDU-CNW4A13A000	SkyLink FE @ 150 Mbps + 2 T1 Wideband SDIDU	\$ 3,682.62
Cielo Networks	SDIDU-CNW4A13A010	Skylink OC-3 155 Mbps + FE @ 10 Mb + 2T1 Wideband SDIDU, 1+0	\$ 4,765.74
Cielo Networks	SDIDU-CNW4A24A000	SkyLink FE @ 150 Mbps + 2T1 Wideband SDIDU, 1+1 or 2+0 E-W	\$ 4,982.37
Cielo Networks	SDIDU-CNW4A24A010	Skylink OC-3 155 Mbps + FE @ 10 Mb + 2T1 Wideband SDIDU, 1+1	\$ 6,065.49
Cielo Networks	SDIDU-CNW5A13A000	SkyLink FE @ 200 Mbps + 2 T1 Wideband SDIDU	\$ 4,115.87
Cielo Networks	SDIDU-CNW5A24A000	SkyLink FE @ 200 Mbps + 2T1 Wideband SDIDU,1+1 or 2+0 E-W	\$ 5,415.62
Cielo Networks	VHLP1-15-RC1	1', 15 GHz VHLP Antenna	\$ 433.25
Cielo Networks	VHLP1-23-RC1	1', 23 GHz VHLP Antenna	\$ 433.25
Cielo Networks	VHLP1-38-RC1	1', 38 GHz VHLP Antenna Mount	\$ 433.25
Cielo Networks	VHLP2.5-15-RC1	3', 15 GHz VHLP Antenna	\$ 1,175.84
Cielo Networks	VHLP2.5-18-RC1	3', 18 GHz VHLP Antenna	\$ 1,175.84
Cielo Networks	VHLP2.5-23-RC1	3', 23 GHz VHLP Antenna	\$ 1,175.84
Cielo Networks	VHLP2.5-7W-RC1	3', 7/8 GHz VHLP Antenna	\$ 1,495.58
Cielo Networks	VHLP2-11-RC1	2', 11 GHz VHLP Antenna	\$ 588.35
Cielo Networks	VHLP2-15-RC1	2', 15 GHz VHLP Antenna	\$ 588.35
Cielo Networks	VHLP2-18-RC1	2', 18 GHz VHLP Antenna	\$ 588.35
Cielo Networks	VHLP2-23-RC1	2', 23 GHz VHLP Antenna	\$ 588.35
Cielo Networks	VHLP2-38-RC1	2', 38 GHz VHLP Antenna Mount	\$ 588.35
Cielo Networks	VHLP2-7W-RC1	2', 7/8 GHz VHLP Antenna	\$ 1,000.81
Cielo Networks	VHLP4-11-RC1A	4', 11 GHz VHLP Antenna	\$ 2,011.14

Cielo Networks	VHLP4-15-RC1A	4', 15 GHz VHLP Antenna	\$ 2,011.14
Cielo Networks	VHLP4-18-RC1A	4', 18 GHz VHLP Antenna	\$ 2,011.14
Cielo Networks	VHLP4-23-RC1A	4', 23 GHz VHLP Antenna	\$ 2,011.14
Cielo Networks	VHLP4-7W-RC1A	4', 7/8 GHz VHLP Antenna	\$ 2,382.87
Cielo Networks	VHLP6-11-RC1A	6', 11 GHz VHLP Antenna	\$ 3,455.60
Cielo Networks	VHLP6-15-RC1A	6', 15 GHz VHLP Antenna	\$ 3,455.60
Cielo Networks	VHLP6-18-RC1A	6', 18 GHz VHLP Antenna	\$ 3,455.60
Cielo Networks	VHLP6-23-RC1A	6', 23 GHz VHLP Antenna	\$ 3,455.60
Cielo Networks	VHLP6-7W-RC1A	6', 7/8 GHz VHLP Antenna	\$ 4,538.72
Cielo Networks	VHLP800-11-RC1	3', 11 GHz VHLP Antenna	\$ 1,402.86
Cielo Networks	VHLPX1-15-1WH	1', 15GHz VHLP Antenna, Dual Polarization, UG Flange	\$ 788.51
Cielo Networks	VHLPX1-23-1WH	1', 23GHz VHLP Antenna, Dual Polarization, UG Flange	\$ 788.51
Cielo Networks	VHLPX1-38-1WH	1', 38GHz VHLP Antenna, Dual Polarization, UG Flange	\$ 788.51
Cielo Networks	VHLPX2.5-15-1WH	3', 15GHz VHLP Antenna, Dual Polarization, UG Flange	\$ 1,704.40
Cielo Networks	VHLPX2.5-18-1WH	3', 18GHz VHLP Antenna, Dual Polarization, UG Flange	\$ 1,704.40
Cielo Networks	VHLPX2.5-23-1WH	3', 23GHz VHLP Antenna, Dual Polarization, UG Flange	\$ 1,704.40
Cielo Networks	VHLPX2.5-7W-6WH	3', 7/8 GHz VHLP Antenna, Dual Polarization, CPRG Flange	\$ 1,791.05
Cielo Networks	VHLPX2-11-6WH	2', 11GHz VHLP Antenna, Dual Polarization, CPRG Flange	\$ 1,135.11
Cielo Networks	VHLPX2-15-1WH	2', 15GHz VHLP Antenna, Dual Polarization, UG Flange	\$ 1,135.11
Cielo Networks	VHLPX2-18-1WH	2', 18GHz VHLP Antenna, Dual Polarization, UG Flange	\$ 1,135.11
Cielo Networks	VHLPX2-23-1WH	2', 23GHz VHLP Antenna, Dual Polarization, UG Flange	\$ 1,135.11
Cielo Networks	VHLPX2-38-1WH	2', 38GHz VHLP Antenna, Dual Polarization, UG Flange	\$ 1,135.11
Cielo Networks	VHLPX2-7W-6WH	2', 7/8 GHz VHLP Antenna, Dual Polarization, CPRG Flange	\$ 1,277.22
Cielo Networks	VHLPX4-11-6WH	4', 11GHz VHLP Antenna, Dual Polarization, CPRG Flange	\$ 2,820.45
Cielo Networks	VHLPX4-15-1WH	4', 15GHz VHLP Antenna, Dual Polarization, UG Flange	\$ 2,820.45
Cielo Networks	VHLPX4-18-1WH	4', 18GHz VHLP Antenna, Dual Polarization, UG Flange	\$ 2,820.45
Cielo Networks	VHLPX4-23-1WH	4', 23GHz VHLP Antenna, Dual Polarization, UG Flange	\$ 2,820.45
Cielo Networks	VHLPX4-7W-6WH	4', 7/8 GHz VHLP Antenna, Dual Polarization, CPRG Flange	\$ 2,962.56
Cielo Networks	VHLPX6-11-6WH	6', 11GHz VHLP Antenna, Dual Polarization, CPRG Flange	\$ 4,913.91
Cielo Networks	VHLPX6-15-1WH	6', 15GHz VHLP Antenna, Dual Polarization, UG Flange	\$ 4,913.91
Cielo Networks	VHLPX6-18-1WH	6', 18GHz VHLP Antenna, Dual Polarization, UG Flange	\$ 4,913.91
Cielo Networks	VHLPX6-23-1WH	6', 23GHz VHLP Antenna, Dual Polarization, UG Flange	\$ 4,913.91
Cielo Networks	VHLPX6-7W-6WH	6', 7/8 GHz VHLP Antenna, Dual Polarization, CPRG Flange	\$ 5,411.28



Cielo Networks	VHLPX800-11-6WH	3', 11GHz VHLP Antenna, Dual Polarization, CPRG Flange	\$ 1,916.70
LTI DataComm, Inc.	M192-04L	192 Line HDT Shelf	\$ 1,528.61
LTI DataComm, Inc.	P100-01L	HDT Shelf Power Card	\$ 432.64
LTI DataComm, Inc.	P130-02L	HDT Demux Card	\$ 423.07
LTI DataComm, Inc.	P159-01L	Composite Clock Interface Card	\$ 478.59
LTI DataComm, Inc.	P120-03/3.5L	HDT Sys Mon Card, V.35FW (SAT Drop Test)	\$ 2,443.68
LTI DataComm, Inc.	P145-02L	HDT Fiber Optic Interface Card w/ R & B- FC Conn	\$ 2,161.31
LTI DataComm, Inc.	P146-01L	HDT Copper Transmit Timing Card	\$ 745.64
LTI DataComm, Inc.	P140-02L	HDT T1 Transport- Single	\$ 812.64
LTI DataComm, Inc.	P141-01L	HDT T1 HDSL Transport Card (A)	\$ 1,656.88
LTI DataComm, Inc.	P141-11L	HDT T1 HDSL Transport Card (A) w/o Power	\$ 1,559.24
LTI DataComm, Inc.	P125-02L	HDT Expansion Card for 384 Line System	\$ 1,080.65
LTI DataComm, Inc.	C102-07L	HDT Expansion Shelf Cable, 7 ft.	\$ 318.74
LTI DataComm, Inc.	C102-09L	HDT Expansion Shelf Cable, 9 ft.	\$ 370.43
LTI DataComm, Inc.	C102-25L	HDT Expansion Shelf Cable, 25 ft.	\$ 463.27
LTI DataComm, Inc.	C100-30L	VF Cable, 100Pr, 30M Long, Right FM BP	\$ 496.78
LTI DataComm, Inc.	C101-30L	VF Cable, 100Pr, 30M Long, Left FM BP	\$ 496.78
LTI DataComm, Inc.	C100-60L	VF Cable, 100Pr, 60M/200ft., Right fFMBP	\$ 962.92
LTI DataComm, Inc.	C101-60L	VF Cable, 100Pr, 60M/200ft., Left FM BP	\$ 962.92
LTI DataComm, Inc.	BF100-03L	Fiber Jumper Kit, 4 Each w/ FC to FC Conn, 3M	\$ 456.57
LTI DataComm, Inc.	BF100-10L	Fiber Jumper Kit, 4 Each w/ FC to FC Conn, 10M	\$ 539.85
LTI DataComm, Inc.	BF101-03L	Fiber Jumper Kit, 4 Each w/ FC to SC Conn, 3M	\$ 456.57

LTI DataComm, Inc.	BF101-10L	Fiber Jumper Kit, 4 Each w/ FC to SC Conn, 10M	\$ 539.85
LTI DataComm, Inc.	BF102-03L	Fiber Jumper Kit, 4 Each w/ FC to ST Conn, 3M	\$ 456.57
LTI DataComm, Inc.	BF102-10L	Fiber Jumper Kit, 4 Each w/ FC to ST Conn, 10M	\$ 539.85
LTI DataComm, Inc.	A0660-01L	CO/GPS 64 Kbps composite clock 64/8 Kbps	\$ 9,158.29
LTI DataComm, Inc.	A0661-01L	CO 648/8 complosite clock (DS1 input)	\$ 9,158.29
LTI DataComm, Inc.	A0662-01L	CO 648/8 complosite clock (DS1 input) without monitor port	\$ 9,158.29
LTI DataComm, Inc.	A0748-01L	Terminal Blocks 10x25 w/ Male AMP Connectors	\$ 185.69
LTI DataComm, Inc.	A0750-01L	MM66 Ounch Down Block, 50 pr	\$ 96.68
LTI DataComm, Inc.	A900-01L	SAT System DB9 to RJ11 adapter cable	\$ 56.47
LTI DataComm, Inc.	B196-02L	Fuse & Alarm Panel, 20 Posn A & B, w/ fuses	\$ 1,451.08
LTI DataComm, Inc.	B110-01L	Bolted Aluminum Rack 19" x 7" Alum.	\$ 629.82
LTI DataComm, Inc.	B112-01L	Fiber Termination Panel	\$ 1,903.83
LTI DataComm, Inc.	M105-01L	HDT Spare Kit, Misc.	\$ 51.69
LTI DataComm, Inc.	P182-02L	HDT Line Card, US POTS- 4 lines	\$ 441.26
LTI DataComm, Inc.	P184-02L	HDT Line Card, LS/GS, POTS- 4 lines	\$ 477.63
LTI DataComm, Inc.	P170-02L	HDT Line Card, Coin- Dual (MLT)	\$ 617.38
LTI DataComm, Inc.	P172-01L	HDT Line Card, 4 Wire TO- Dual	\$ 771.49
LTI DataComm, Inc.	P176-01L	HDT Line Card, 4 Wire E & M Types 1 & 5	\$ 725.54
LTI DataComm, Inc.	P180-01L	HDT Line Card, ISDN + POTS	\$ 1,245.29
LTI DataComm, Inc.	P180-02L	HDT Line Card, ISDN	\$ 1,050.03
LTI DataComm, Inc.	P186-01L	HDT Line Card, P-Phone- 4 Lines	\$ 1,318.04
LTI DataComm, Inc.	P150-01L	HGT Line Card, DS1 Service- Single	\$ 797.33

LTI DataComm, Inc.	P152-01L	HDT Line Card, DS1 service- Dual	\$ 859.55
LTI DataComm, Inc.	P185-01L	HDT DDS + 2 POTS	\$ 1,033.75
LTI DataComm, Inc.	M232-01L	32 Line ONU Base Shelf	\$ 1,568.82
LTI DataComm, Inc.	M264-01L	64 Line ONU Expansion Shelf	\$ 1,934.46
LTI DataComm, Inc.	M201-01L	ONU Mounting Ears, 19" Rack	\$ 128.26
LTI DataComm, Inc.	M202-01L	ONU Mounting Ears, 23" Rack	\$ 128.26
LTI DataComm, Inc.	M203-01L	ONU Fiber Guard Assembly	\$ 309.17
LTI DataComm, Inc.	M204-01L	ONU Rear Cover Assembly	\$ 164.63
LTI DataComm, Inc.	M205-01L	ONU Rear Cover Assembly, Extended	\$ 175.16
LTI DataComm, Inc.	B242-01L	Battery Mounting Tray, 23"	\$ 246.95
LTI DataComm, Inc.	B241-01L	Battery Mounting Tray, 19"	\$ 226.85
LTI DataComm, Inc.	C221-04L	VF Cable Stubs, 100 Pr, 4 M	\$ 761.91
LTI DataComm, Inc.	C221-30L	VF Cable Stub, 100 Pr, 30 M	\$ 1,774.61
LTI DataComm, Inc.	C311-10L	ONU VF Stub, 50 pair, 10 meters	\$ 1,363.02
LTI DataComm, Inc.	P345-02L	ONU Fiber Optic Interface Card w/ R&B-FC Conn	\$ 1,440.55
LTI DataComm, Inc.	P340-02L	ONU T1 Transport- Dual	\$ 1,208.92
LTI DataComm, Inc.	M340-01L	ONU T1 Surge Protector	\$ 401.06
LTI DataComm, Inc.	C311-10L	VF Stub, 50 PR, 10 MTR	\$ 1,054.81
LTI DataComm, Inc.	C321-10L	VF Stub, 100 PR, 10 MTR	\$ 849.02
LTI DataComm, Inc.	M311-01L	ONU Cable Port Assembly 2"	\$ 51.69
LTI DataComm, Inc.	BF100-03L	Fiber Jumper Kit, 4 Each w/ FC to FC Conn, 3M	\$ 456.57
LTI DataComm, Inc.	BF100-10L	Fiber Jumper Kit, 4 Each w/ FC to FC Conn, 10M	\$ 539.85

LTI DataComm, Inc.	BF101-03L	Fiber Jumper Kit, 4 Each w/ FC to SC Conn, 3M	\$ 456.57
LTI DataComm, Inc.	BF101-10L	Fiber Jumper Kit, 4 Each w/ FC to SC Conn, 10M	\$ 539.85
LTI DataComm, Inc.	BF102-03L	Fiber Jumper Kit, 4 Each w/ FC to ST Conn, 3M	\$ 456.57
LTI DataComm, Inc.	BF102-10L	Fiber Jumper Kit, 4 Each w/ FC to ST Conn, 10M	\$ 539.85
LTI DataComm, Inc.	M310-01L	ONU Fiber Splice Tray	\$ 179.95
LTI DataComm, Inc.	M305-02L	ONU Spares Kit, Misc.	\$ 138.79
LTI DataComm, Inc.	P341-01L	RT T1 HDSL Transport Card (A)	\$ 1,461.61
LTI DataComm, Inc.	A0034-01L	HDSL Doubler Encl., Pole Mount, 30 ft Cable Stub	\$ 1,543.93
LTI DataComm, Inc.	A0035-01L	HDSL Doubler- Repeater (A)	\$ 1,929.67
LTI DataComm, Inc.	B301-01L	ONU Surge Protector, Bellcore Qty 10	\$ 108.16
LTI DataComm, Inc.	B201-01L	ONU Shorting Plug Qty. 10	\$ 82.32
LTI DataComm, Inc.	P382-02L	ONU Line Card, US POTS- 4 Lines	\$ 499.65
LTI DataComm, Inc.	P384-02L	ONU Line Card, LS/GS, POTS- 4 lines	\$ 539.85
LTI DataComm, Inc.	P350-01L	ONU Line Card, DS1 Service- Single	\$ 874.86
LTI DataComm, Inc.	P350-02L	ONU Line Card, DS1 Service- Single w/ span power	\$ 1,024.18
LTI DataComm, Inc.	M350-01L	DS1/E1 Connector Board	\$ 303.43
LTI DataComm, Inc.	P370-02L	ONU Line Card, Coin-Dual	\$ 704.48
LTI DataComm, Inc.	P372-01L	ONU Line Card, 4 WIRE TO- Dual	\$ 920.81
LTI DataComm, Inc.	P376-01L	ONU Line Card, 4 WIRE E&M, Types 1 & 5	\$ 869.12
LTI DataComm, Inc.	P380-01L	ONU Line Card- ISDN + POTS	\$ 1,810.98
LTI DataComm, Inc.	P380-02L	ONU Line Card- ISDN	\$ 1,137.13
LTI DataComm, Inc.	P385-01L	ONU DDS + 2 POTS	\$ 1,148.61

LTI DataComm, Inc.	P386-01L	ONU Line Card, P-Phone- 4 Lines	\$ 1,602.32
LTI DataComm, Inc.	P300-02L	ONU Power/Ring Card (-48VDC IN)	\$ 823.17
LTI DataComm, Inc.	B340-01L	Battery, 40AH, 12 Volt, Gel Cell	\$ 159.85
LTI DataComm, Inc.	B310-01L	Argus Charger, 7.5A w/ Shelf, 110VAC	\$ 3,056.27
LTI DataComm, Inc.	B310-11L	Argus Charger Module , 7.5A, 110VAC	\$ 1,234.76
LTI DataComm, Inc.	B310-21L	Argus Charger, 15A, w/ shelf 110V (Dual)	\$ 4,291.03
LTI DataComm, Inc.	B312-01L	Argus Charger 7.5A with Shelf, 220 VAC	\$ 3,056.27
LTI DataComm, Inc.	B312-11L	Argus Charger Module 7.5A 220 VAC	\$ 1,234.76
LTI DataComm, Inc.	B312-21L	Argus Charger 15A (Dual) with shelf 220VAC	\$ 4,291.03
LTI DataComm, Inc.	B314-01L	Argus Charger, 2/10A Modules with Shelf, 110VAC	\$ 4,337.93
LTI DataComm, Inc.	B314-11L	Argus Charger Module, 10A Modules, 110VAC	\$ 1,234.76
LTI DataComm, Inc.	B314-30L	Argus PS/Chgr with 3-10A mods with shelf, 110VAC	\$ 5,572.70
LTI DataComm, Inc.	B314-50L	Argus PS/Chgr fan module for B314-xxL PS	\$ 831.79
LTI DataComm, Inc.	A0267-01L	Battery Charger Jumper Kit for Rack Mount ONU	\$ 154.11
LTI DataComm, Inc.	P305-01L	ONU Power/Ring Card - Fiber	\$ 900.71
LTI DataComm, Inc.	P305-02L	ONU Power/Ring Card- T1/HDSL	\$ 900.71
LTI DataComm, Inc.	P310-01L	ONU Power Card- Dual	\$ 1,221.36
LTI DataComm, Inc.	S100-03/3.3L	SAT System Software*	\$ 3,678.44
LTI DataComm, Inc.	P190-02	HDT Channel Access Card	\$ 271.84
LTI DataComm, Inc.	P191-02	HDT Subscriber Drop Test Card	\$ 2,057.93
LTI DataComm, Inc.	P198-01L	HDT Test Timing Source	\$ 271.84
LTI DataComm, Inc.	P199-01L	TIO/Ring Test Card "Streaker Card"	\$ 334.06

LTI DataComm, Inc.	P390-01	ONU/RT Channel Access Card	\$ 245.04
LTI DataComm, Inc.	P391-02	ONU/RT Subscriber Drop Test Card	\$ 450.83
LTI DataComm, Inc.	D100-01L	FCW-IA Technical Guides, Manual	\$ 154.11
LTI DataComm, Inc.	D101-01L	FCW-IA Technical Guides, CD ROM	\$ 87.10
LTI DataComm, Inc.	A0366-01LP	192 Line Portable HDT with 48VDC Power Supply	\$ 14,148.06
LTI DataComm, Inc.	A0367-01LP	32 Line Portable ONU with 48VDC Power Supply	\$ 12,913.30
LTI DataComm, Inc.	A0368-01LP	96 Line Portable ONU with 48VDC Power Supply	\$ 17,487.66
LTI DataComm, Inc.	A0100-01L	CO/RT 2:1 Fiber Gain Kit without redundancy	\$ 8,129.32
LTI DataComm, Inc.	A0200-01L	CO/RT 2:1 Fiber Gain Kit with redundancy	\$ 12,245.19
LTI DataComm, Inc.	A0250-01L	2:1 Fiber Gain Spares Kit	\$ 5,144.84
LTI DataComm, Inc.	A0601-01L	DS3 Converter Shelf	\$ 3,340.55
LTI DataComm, Inc.	A0602-01L	DS3 Converter Module	\$ 2,714.56



SIN #	Manufacturer	Labor Title	Functional Responsibility	Minimum/General Experience	Minimum Education	GSA \$
132-51	LTI DataComm, Inc.	Program Manager	Establishes administrative, financial and technical goals and objectives within parameters provided by senior management. Makes detailed plans for the accomplishment of these goals and objectives. Coordinates and directs the interactivity of these organizational activities. Forecasts costs, equipment, and personnel needs for projects and programs. Refers problems that do not respond to corrective action.	Three years of management experience preferred in developing, implementing, and supporting organizational, institutional, or government plans. Knowledgeable in the application of scientific methods and mathematical principles to solve program problems, evaluate alternatives, and identify the best course of action. Proficiency in solving intermediate-level strategy, forecasting, resource allocation, facilities layout, inventory control, personnel, scheduling and distribution problems. Knowledgeable in forecasting costs, equipment, and personnel needs for projects and programs. Experienced in hiring and assigning tasks to personnel to execute specific parts of the program. Experienced in supervising work, reviewing designs, projects, and reports. Confers with higher levels of management, marketing, contracting, and engineering personnel. Establishes working procedures and policies. Assigns, schedules, reviews, and ensures quality of the work of managers, engineers, technicians, and support personnel as required. Proficient in Federal Government, State, or local acquisition and contracting methods and requirements.	Bachelors degree with 3 years of experience preferred, or associate's degree with 5 years of experience preferred, or high school diploma with 10 years of experience preferred. Academic degrees from other than U.S. academic institutions, professional certifications, and relevant technical training will be evaluated on a case-by-case basis.	\$182.75

132-51	LTI DataComm, Inc.	Project Manager	<p>Ensures compliance with financial, administrative, and technical goals and objectives within parameters provided by higher level management. Makes detailed plans for the accomplishment of these goals and objectives. Implements plans and directs the coordination of project-related activities. Ensures project compliance with policy, directs immediate operations, and supervises project staff. Forecasts costs, equipment, and personnel needs for projects. Refers problems that do not respond to corrective action.</p>	<p>Three years of management experience preferred in developing, implementing, and supporting organizational, institutional, or government plans. Knowledgeable in the application of scientific methods and thematic principles to solve project problems, evaluate alternatives, and identify the best course of action. Solves entry-level strategy, forecasting, resource allocation, facilities layout, inventory control, personnel schedule, and distribution system-type problems with guidance from immediate supervisor. Refers problems that do not respond to corrective action. Under direct supervision, forecasts costs, equipment, and personnel needs for the project. Knowledgeable in database management, programming, and in the use of software programs. Familiar with Federal Government, State, or local acquisition and contracting methods and requirements. Supervises project personnel and reviews their designs, projects, and reports.</p>	<p>Bachelors degree with 2 years of experience preferred, or associate's degree with 4 years of experience preferred, or high school diploma with 8 years of experience preferred. Academic degrees from other than U.S. academic institutions, professional certifications, and relevant technical training will be evaluated on a case-by-case basis.</p>	\$147.05
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132-51	LTI DataComm, Inc.	Senior Network Engineer	<p>Installs and configures LAN, LAN-to-LAN, WAN environments and firewall. Technical expert in the design, use, and maintenance of computer and telecommunications local area/wide area networks (WANs). Uses an industry standard Network Operating System (NOS), which could be electronic, optical, or electromechanical machines that record, store, process, transcript, and/or manipulate data from single and/or all source material. Supervises development of procedures and network concepts. Develops and implements policies for LAN, WAN (identified locally as Base Area Network [BAN]), telecommunications, peripherals, and Internet applications. Oversees a myriad of nonstandard difficult operating problems that require extensive operator intervention. Oversees integrated networks. Supervises the conduct of assessments, troubleshooting, integration testing, technology prototyping, training, and analyses. Ensures maintenance of records, applicable software, hardware, forms, and plans. Spends time away from the control panel providing assistance to lower level network operators, programmers, systems analysts, and subject matter specialists to resolve problems. Coordinates closely with senior staff.</p>	<p>Five years of technical experience preferred in developing, implementing, and supporting organizational, institutional, or government networks. Proficient in designing, developing, testing, and establishing various types of networks, systems, new technologies, and specialized protocols and interfaces. Knowledgeable in business requirements. Competent in technical and non-technical written and oral communications.</p>	<p>Bachelor's degree with 5 years of experience preferred, or associate's degree with 8 years of experience preferred, or high school diploma with 10 years of experience preferred. Academic degrees from other than U.S. academic institutions, professional certifications, and relevant technical training will be evaluated on a case-by-case basis.</p>	\$141.10
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132-51	LTI DataComm, Inc.	PC/Network Administrator /Technician	<p>Technical expert in the design, use, and maintenance of computer and telecommunications networks. Uses an industry standard NOS, which could be electronic, optical, or electromechanical machines that record, store, process, transcript, and/or manipulate data from single and/or all source material. Supervises procedures and develops network concepts. Assists in developing and implementing policies for LAN, WAN, telecommunications, peripherals, and Internet applications. Solves nonstandard difficult operating problems that require extensive operator intervention. Knowledgeable in integrated networks. Directly supervises the conduct of assessments, troubleshooting, integration testing, technology prototyping, training, and analyses. Ensures maintenance of records, applicable software, hardware, forms, and plans. Spends time away from the control panel providing assistance to lower level network operators, programmers, systems analysts, and subject matter specialists to resolve problems.</p>	<p>Three years of technical experience preferred in developing, implementing, and supporting organizational, institutional, or government networks. Proficient in designing, analyzing, developing, testing, and establishing various types of networks, systems, new technologies, specialized protocols and interfaces. Proficient in developing solutions for general network automation support, upgrades, system administration, configuration management, documentation, and training. Knowledgeable in business requirements. Competent in technical and non-technical written and oral communications.</p>	<p>Bachelor's degree with 3 years of experience preferred or associate's degree with 5 years of experience preferred, or high school diploma with 8 years of experience preferred. Academic degrees from other than U.S. academic institutions, professional certifications, and relevant technical training will be evaluated on a case-by-case basis.</p>	\$70.55
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132-51	LTI DataComm, Inc.	Software Engineer	<p>Knowledgeable in designing and developing software. Understanding of advanced topics such as data migration, formal methods, computer-based training (CBT), distance learning, and formal requirements analysis. Knowledgeable in engineering functions such as network engineering, systems engineering, testing and validation techniques, functional design, benchmarking, performance management, and specific subject area as required. Directs and coordinates the identification of operational requirements and the establishment of technical and functional support standards and documentation. Oversees and assists with the design of software applications, hardware design and purchases, research and development tasks, installation and testing tasks, and customer-identified tasks. Forwards items beyond the scope of the individual. Sets schedules, assigns tasks, and manages programs/projects as required.</p>	<p>Three years of engineering experience preferred in developing, implementing, and supporting organizational, institutional, or Government plans or systems. Experienced in planning, designing, and establishing engineering or related projects. Competent in technical and non-technical written and oral communications</p>	<p>Advance degree with two years experience preferred, or bachelor's degree with 4 years of experience preferred, or associate's degree with 6 years of experience preferred in related field. Academic degrees from other than U.S. academic institutions, professional certifications, and relevant technical training will be evaluated on a case-by-case basis.</p>	\$113.05
132-51	LTI DataComm, Inc.	Administrator	<p>Expertise in various administrative tasks including routine business software, word processing, spreadsheets, data entry, database maintenance, graphics, filing systems forms, distribution systems, supply systems, schedules, proofreading, editing, formats, written and oral communications, and overseeing personnel. Assists in the management, direction, and coordination of administrative tasks as assigned. Performs administrative tasks as assigned. Responds to routine administrative questions. Oversees and trains administrative personnel. Familiar with financial management, personnel management, security management, and human resources issues. Supervisor checks work for compliance.</p>	<p>Four years of administrative management experience preferred supporting organizational, institutional, or government programs. Familiarity with personnel management, database management, and computer software programs. Familiarity with government acquisition, contracting methods, and requirements. Competent in technical and non-technical written and oral communications.</p>	<p>Bachelor's degree preferred or associate's degree with 2 years of experience preferred, or high school diploma with 4 years of experience preferred. Academic degrees from other than U.S. academic institutions, professional certifications, and relevant technical training will be evaluated on a case-by-case basis.</p>	\$80.75

132-51	LTI DataComm, Inc.	Senior Administrator	Expert in a variety of administrative tasks including routine business software, word processing, spreadsheets, data entry, database maintenance, graphics, filing systems, distribution systems, schedules, proofreading, editing, formats, written and oral communications, and supervising personnel. Manages, directs, coordinates, and performs administrative tasks. Responds to routine administrative questions. Supervises and trains personnel. Knowledgeable in financial management, personnel management, security management, and human resources issues.	Six years of administrative management experience preferred supporting organizational, institutional, or government programs. Knowledgeable in personnel management, database management, and computer software programs. Knowledgeable in government acquisition, contracting methods, and requirements. Competent in technical and nontechnical written and oral communications.	Bachelor's degree preferred or associate's degree with 10 years of experience preferred, or high school diploma with 15 years of experience preferred. Academic degrees from other than U.S. academic institutions, professional certifications, and relevant technical training will be evaluated on a case-by-case basis.	\$95.20
132-51	LTI DataComm, Inc.	Engineer	Develops and refines new engineering techniques to enhance quality and productivity. Work with the hardware and software aspects of systems design and development. They usually apply the theories and principles of science and mathematics to design hardware, software, networks, and processes and to solve technical problems. Whereas their work emphasizes the application of theory, computer engineers may also be involved in building prototypes. Computer hardware engineers usually design, develop, test, and supervise the manufacture of computer hardware—such as chips or device controllers. Software engineers, on the other hand, can be involved in the design and development of software systems for control and automation of manufacturing, business, and management processes. They may research, design, and test operating system software, compilers—software that converts programs for faster processing—and network distribution software.	Three years of engineering experience preferred in developing, implementing, and supporting organizational, institutional, or government plans or systems. Experienced in planning, designing, and establishing engineering or related projects. Competent in technical and non-technical written and oral communications.	Bachelor's degree with 2 years of experience preferred or associate's degree with 4 years of experience preferred in related field. Academic degrees from other than U.S. academic institutions, professional certifications, and relevant technical training will be evaluated on a case-by-case basis. 26	\$140.25

132-51	LTI DataComm, Inc.	Principal Engineer	<p>Develops and refines new engineering techniques to enhance quality and productivity. Establishes performance and technical standards. Generates and approves project and testing specifications. May lead or coordinate complex task/project teams. Develops and refines new engineering techniques to enhance quality and productivity. Applies the theories and principles of science and mathematics to design hardware, software, networks, and processes and to solve technical problems. May be involved in building prototypes. Devises appropriate tests to evaluate, debug and check systems. Documents the results of complex analysis and design tasks. May design moderately complex systems; assists in developing standards and techniques. Works with engineering management in report preparation, customer presentation, engineering analysis, data interpretation, and proposal generation.</p>	<p>Seven years of engineering experience preferred in developing, implementing, and supporting organizational, institutional, or government plans or systems. Experienced in planning, designing, and establishing engineering or related projects. Proficient in technical and non-technical written and oral communications.</p>	<p>Bachelor's degree with 6 years of experience preferred or associate's degree with 8 years of experience preferred in related field. Academic degrees from other than U.S. academic institutions, professional certifications, and relevant technical training will be evaluated on a case-by-case basis.</p>	\$220.15
132-51	LTI DataComm, Inc.	Systems Engineer	<p>Responsible for analysis and design of IT systems. Technical expert in the design, use, and maintenance of computer and telecommunications local area/wide area networks (WANs). Uses an industry standard Network Operating System (NOS), which could be electronic, optical, or electromechanical machines that record, store, process, transcript, and/or manipulate data from single and/or all source material. Develops and implements policies for LAN, WAN (identified locally as Base Area Network [BAN]), telecommunications, peripherals, and Internet applications. Oversees a myriad of nonstandard difficult operating problems that require extensive operator intervention.</p>	<p>Three to four years of senior level technical experience designing and implementing complex enterprise level integration solutions. Extensive experience in networking/Infrastructure, application integration, security, and optimization.</p>	<p>Bachelor's degree in Computer Sciences preferred or Associates Degree with Industry Standard Qualification. (eg. Cisco Certification, CISSP, MCSE). Academic degrees from other than U.S. academic institutions, professional certifications, and relevant technical training will be evaluated on a case-by-case basis.</p>	\$216.75

132-51	LTI DataComm, Inc.	Senior Subject Matter Expert	<p>Plans and executes complex tasks and projects relevant to subject matter. May lead the effort of others. Reduces issues to practical recommended options. Explains recommendation to decision-makers in terms that permit decisions. Performs studies and analyses on subjects within the technical scope of work.</p>	<p>Twenty years experience in relevant discipline(s) or area(s) of expertise. Possible areas of expertise include but are not limited to information technology, business development, system engineering, contracting, contract management, industrial processes, data networking, acquisition management, financial analysis, financial management, budgeting and performance, lab testing, equipment testing, software testing or network security. Experience in presentations, and resolving problems. Ability to explain issues to others in a manner that facilitates informed decision making. May include experience in evaluating, developing and/or analyzing information systems (IS) or information technology (IT) applied to information architectures/information warfare, including the use of client-server systems, distributed data bases, both wide-area and local-area communications, and a performance-based acquisition process. May include experience in financial analysis and management, cost estimating and analysis, budgeting and performance measurement.</p>	<p>Bachelor's degree with 10 years experience or 20+ years relevant discipline(s) or experience in area(s) of expertise.</p>	\$210.82
132-51	LTI DataComm, Inc.	Field Engineer	<p>Develops test plans and performs measurements in accordance with overall project objectives. Generates technical report at conclusion of measurements outlining test equipment configuration, methodology, and presentation of raw data, conclusions and recommendations. Interacts with customer throughout entire process to develop long-term relationship through quality service. Must be knowledgeable in a wide range of tasks, including systems/equipment installation, inspection, modification, maintenance, operation, personnel training, and technical writing.</p>	<p>Three years hands-on experience with voice, video and data transport equipment. Experienced in planning, designing, and establishing engineering or related projects. Proficient in technical and nontechnical written and oral communications.</p>	<p>Bachelor's degree with 4 years of experience preferred or associate's degree with 8 years of experience preferred in related field. Academic degrees from other than U.S. academic institutions, professional certifications, and relevant technical training will be evaluated on a case-by-case basis.</p>	\$105.40

132-51	LTI DataComm, Inc.	Senior Field Engineer	Acts as customer liaison in requirements definition and senior engineer in development of test plans and performs measurements in accordance with overall project objectives. Responsible for communication system installation and troubleshooting according to technical specifications. Generates technical report at conclusion of measurements outlining test equipment configuration, methodology, and presentation of raw data, conclusions and recommendations. Interacts with customer throughout entire process to develop long-term relationship through quality service while identifying new business opportunities and service offerings.	Five years hands-on experience with voice, video and data transport equipment. Experienced in planning, designing, and establishing engineering or related projects. Proficient in technical and nontechnical written and oral communications.	Bachelor's degree with 6 years of experience preferred or associate's degree with 10 years of experience preferred in related field. Academic degrees from other than U.S. academic institutions, professional certifications, and relevant technical training will be evaluated on a case-by-case basis.	\$138.55
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132-51	LTI DataComm, Inc.	Microwave Design Engineer	<p>Involve in studies and prepare bid packs and submissions. Maintain close working relations with internal and external customers to identify future business opportunities and ensure that strategies are aligned. Design hardware/ software products and develop initial concepts of new products. Maintain a high degree of technical competency in a specialized field within an engineering group. Advise members of the product group or business unit in their specialized field. Influence the design/product teams on technical issues in their specialized field. Communicate effectively with counterparts in other product groups/ business units to share expertise and optimize development, Coach and mentor engineers. Interact with professional bodies and institutions to maintain state of the art knowledge of technology in their field. Give technical presentations to and hold discussions with internal and external customers. Carry out specialist design activities given a detailed top-level requirement specification, without guidance. Support specialist design teams. Assist in the generation of R+D plans. Give technical presentations. Support technical development of lower level engineers.</p>	<p>Five years hands-on experience with microwave radio equipment. Proficient in technical and non-technical written and oral communications.</p>	<p>Any combination of education, training, and experience that provides the required knowledge and abilities. An example of this would be technical training and experience in microwave radio systems repair and maintenance. Additional Certifications may be required by specific radio manufacturers.</p>	\$172.55
132-51	LTI DataComm, Inc.	Microwave/Tower Technician	<p>Ability to rig towers, install tower mounted equipment, and install transmission line grounding and support hangers. Ability to run hoist equipment and install and test ground systems; performs related duties as assigned. Ability to read site prints. Ability to layout site. Ability to assemble and stack self supporting towers. Understand and use crane signals. Ability to install all types of tower mounted microwave dishes. Ability to perform path alignment on microwave communication systems.</p>	<p>Four year hands-on experience with microwave radio equipment. Proficient in technical and non-technical written and oral communications.</p>	<p>Andrew and Cablewave connector certifications, along with any combination of education, training, and experience that provides the required knowledge and abilities. Also, Fall Protection safety training, and certification and grounding installation training.</p>	\$130.05

132-51	LTI DataComm, Inc.	Fiber Optics Splicer/Puller	<p>Installs, removes, repairs, and tests underground, buried, and aerial fiber-optic cable systems. Included are modems, multiplexers, line balancing and loading equipment, and T-carrier span repeaters. Climbs poles to install, splice, maintain, and repair aerial pole line cable and wiring systems. Ensures cables are protected from moisture. Installs underground cable, uses duct rods, cleans cable duct systems, prepares and uses cable pulling apparatus. Installs distribution terminals and housings. Terminates fiber optic cables on interface equipment. Installs cable air dryers, and continuous flow and static pressurization systems. Excavates and backfills splice pits. Operates and maintains special tools, test equipment, auxiliary equipment, and vehicles such as backhoes, trenchers, cable trailers, and cable reel trucks. Ability to assist in the installation of Fiber Optic lines and associated systems.</p>	<p>One year hands-on experience with microwave radio equipment. Proficient in technical and non-technical written and oral communications.</p>	<p>Any combination of education, training, and experience that provides the required knowledge and abilities.</p>	\$116.45
132-51	LTI DataComm, Inc.	Technical Director	<p>Provides high-level technical leadership and support in the areas of Wireless Engineering and Spectrum Management. Directs and performs design engineering services for wireless systems and develops strategies to maximize the latest wireless technology and FCC rules and regulations.</p>	<p>8+ years experience in wireless communications engineering. Advanced degree in directly related communications program may substitute for some work experience.</p>	<p>Master's Degree in Electrical Engineering, or relevant discipline. Academic degrees from other than U.S. academic institutions, professional certifications, and relevant technical training will be evaluated on a case-by-case basis.</p>	\$196.35