



IPIntegration, Inc.
(Securing Your Connection to the Future)

**General Purpose Commercial Information
Technology Equipment, Software and Services**

I-FSS-600 Contract Price List

**IP Integration, Inc.
PO Box 28617
Santa Ana, California 92799**

**Phone: (714) 557-5200
Fax: (714) 242-9094
Website: <http://www.ipi-1.com>
Email: sales@ipi-1.com**

CONTRACT NUMBER: GS-35F-0740P

**PERIOD COVERED BY THIS CONTRACT:
AUGUST 14, 2019 TO AUGUST 14, 2024**

FSC GROUP 70

**SIN 132-8 Purchase of New Equipment
SIN 132-12 Maintenance of Equipment
SIN 132-50 Training Courses
SIN 132-51 Information Technology Professional Services**

August 2019

**Authorized Federal Supply Service
Information Technology
General Purpose Commercial Information Technology**

SPECIAL ITEM NUMBERS:

Special Item No. 132-8 Purchase of Equipment

Special Item No. 132-12 Maintenance, Repair Service and Repair Parts/Spare Parts (Out of Warranty)

Special Item No. 132-50 Training Courses

Special Item No. 132-51 Information Technology Professional Services

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 performed by the publisher or manufacturer or one of their authorized agents.

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Products and ordering information in this Authorized FSS Information Technology Schedule Pricelist are also available on the GSA Advantage System.

Agencies can browse GSA Advantage by accessing the Federal Supply Service's Home Page via the Internet at <http://www.fss.gsa.gov/>.

CUSTOMER INFORMATION:

1a. Table of awarded special item number(s) with appropriate cross- reference to item descriptions and awarded price(s).

SIN 132-8	Purchase of New Equipment
SIN 132-12	Maintenance of Equipment
SIN 132-50	Training Courses
SIN 132-51	Information Technology Professional Services

1b. For a complete listing of Products and Services offered by IP Integration, Inc (IPI), please visit the GSA Advantage Website.

1c. For a complete listing of IPI's products and labor category descriptions please see Attachment I and Attachment II.

2. Maximum order: **\$500,000.00**

3. Minimum order: **\$100.00**

4. Geographic coverage (delivery area): **48 contiguous states and the District of Columbia**

5. Point(s) of production (city, county, and State or foreign country): **N/A**

6. Discount from list, prices or statement of net price: **IPI's GSA prices range from 3% to 29.5% discount from our Commercial Rates as of 7 November 2018.**

7. Quantity discounts: **None**

8. Prompt payment terms: **None**

9a. Notification that Government purchase cards are accepted at or below the micro-purchase threshold: **Government purchase cards are accepted in full at the minimum order threshold.**

9b. Notification whether Government purchase cards are accepted or not accepted above the micro purchase threshold: **Government purchase cards are accepted in full at the minimum order threshold.**

10. Foreign items (list items by country of origin) **N/A**

11a. Time of delivery. **N/A**

11b. Expedited Delivery. The Contractor will insert the sentence "Items available for expedited delivery are noted in this price list." Under this heading. The Contractor may use a symbol of its choosing to highlight items in its price lists that have expedited delivery. **N/A**

TERMS AND CONDITIONS APPLICABLE TO PURCHASE OF
GENERAL PURPOSE COMMERCIAL INFORMATION TECHNOLOGY 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), 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.

This contract is for orders placed within the 48 contiguous states and the District of Columbia

4. INSTALLATION AND TECHNICAL SERVICES

The equipment offered under this contract is not self-installable. Please refer to Section 4a (below) for a detailed description of installation and technical services.

a. **INSTALLATION.** When the equipment provided under this contract is not normally self-installable, IPI'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:

Equipment Installation is a service to set-up, connect and make the IP Integration, Inc provided equipment operational. Installation services shall be performed during the hours of 9 a.m. to 5 p.m., local time, Monday through Friday, excluding IP Integration, Inc holidays ("Prime Time"). Installation performed outside of these hours ("After Hours") shall be performed at premium rates.

After Hours services carry a 50% surcharge. Travel and Expenses are not included in the listed pricing.

Note: Installation services can be combined with product training.

ACTELIS NETWORKS (Actelis)

The equipment offered under this contract is not self-installable. The charge for installation, de-installation and re-installation is: \$1,800.00/day. This charge is exclusive of 'Travel and Expenses' incurred to reach ordering activity location(s).

Installation Service Rates:

The following daily rates and conditions apply to equipment installation. The ordering activity will also be responsible for travel and expenses. Travel days over 4 hours are charged at \$800/day.

Equipment Installation	Product Line	Part Number	Rate
Prime Time (9am – 5pm Local Time)	Network Equipment (All MetaLIGHT products)	SVC-ONSINS	\$1,800 per day plus expenses
After Hours	Network Equipment (All MetaLIGHT products)	SVC-ONSINS	\$2,700 per day plus expenses
Sunday and Holidays	Network Equipment (All MetaLIGHT products)	SVC-ONSINS	\$3,600 per day plus expenses

Equipment Installation is a service to set-up, connect and make the IP Integration, Inc provided equipment operational. Installation services shall be performed during the hours of 9 a.m. to 5 p.m., local time, Monday through Friday, excluding IP Integration, Inc holidays (“Prime Time”). Installation performed outside of these hours (“After Hours”) shall be performed at premium rates.

After Hours services carry a 50% surcharge. Travel and Expenses are not included in the listed pricing.

INDUSTRIAL VIDEO & CONTROL (IVC)

The equipment offered under this contract is not self-installable. The ‘Daily Charge’ for installation, de-installation and re-installation is: \$1,800.00/day. This charge is exclusive of ‘Travel and Expenses’ incurred to reach ordering activity location(s).

Installation Service Rates:

The following daily rates and conditions apply to equipment installation. The ordering activity will also be responsible for travel and expenses. Travel days over 4 hours are charged at \$800/day.

Equipment Installation	Product Line	Part Number	Rate
Prime Time (9am – 5pm Local Time)	Network Equipment (All MetaLIGHT products)	SVC-ONSINS	\$1,800 per day plus expenses
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Equipment Installation is a service to set-up, connect and make the IP Integration, Inc provided equipment operational. Installation services shall be performed during the hours of 9 a.m. to 5 p.m., local time, Monday through Friday, excluding IP Integration, Inc holidays (“Prime Time”). Installation performed outside of these hours (“After Hours”) shall be performed at premium rates.

After Hours services carry a 50% surcharge. Travel and Expenses are not included in the listed pricing.

Note: Installation services can be combined with product training.

The following holidays are recognized by IP Integration, Inc in the United States:

New Years Day	Columbus Day
Presidents' Day	Thanksgiving
Memorial Day	Day after Thanksgiving
Independence Day	Christmas
Labor Day	

Equipment Installation Service Include:

- Unpacking and inspecting IP Integration, Inc (IPI) equipment
- Placement of equipment in equipment racks or wall mount
- Test AC power and provide power to the IPI equipment
- Make required cable/network connections to the IPI equipment
- Notify ordering activity of any equipment problems on units which were not provided by IPI
- Reasonable cut over support to ensure passage of live data if contiguous with installation
- Test and Confirm that IPI equipment is operational

Equipment Installation Service Does Not Include:

- Creating or entering databases
- Site Surveys
- Installation of non contracted equipment or cables
- Running cables through floors, above ceilings or through walls
- Cutting over, configuring, pre-configuring or testing any ordering activity's equipment
- Central Site configuration support for a remote site installation
- Non-installation time on site through no fault of IPI
- Additional trips to the site required to complete the installations through no fault or negligence of IPI

Installation Ordering Activity Responsibilities Include:

- Installations must be scheduled by the ordering activity at least fourteen (14) business days in advance of the requested installation date. **IN THE EVENT THAT THE FOURTEEN (14) DAYS' PRIOR NOTIFICATION IS NOT RECEIVED, THE INSTALLATION MAY HAVE TO BE POSTPONED**
- The ordering activity is responsible for performing the following activities prior to IPI installation:
 - Provide all site environmental and structural information according to site preparation guidelines provided by IPI
 - Provide immediate and continuous access to all sites where IPI equipment is to be installed
 - Provide continuous on-site support personnel with application assistance throughout the entire installation of IPI equipment
 - Provide AC/DC power requirements within 10 feet of IPI equipment location
 - Install and verify proper operation of equipment and cabling not provided by IPI
 - Provide central site configuration support for all remote installations
 - Provide remote site configuration support for central site installations

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 receive 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 quotation is made for applicable construction classified as installation, de-installation, and re-installation services under SIN 132-8.

c. OPERATING AND MAINTENANCE MANUALS

IPI shall furnish the ordering activity with one (1) copy of all operating and maintenance manuals which are normally provided with the equipment being purchased. Operating and maintenance manuals may be provided in either hard copy or soft copy formats at the discretion of IPI.

5. INSPECTION/ACCEPTANCE

IPI 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 post-acceptance 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 IPI's standard commercial warranty as stated in the contract's commercial pricelist will apply to this contract.

ACTELIS NETWORKS (Actelis) – Standard Product Warranty

IP Integration, Inc/Actelis warrants all products, under the terms and conditions of its standard agreements, to be free from defects in material and workmanship during normal service and under normal conditions and to meet its published specifications in effect at time of order for the warranty period specified below:

All ACTELIS NETWORKS Hardware Products:	24 months
All ACTELIS NETWORKS Software Products:	90 days
All ACTELIS NETWORKS Repairs:	Factory Repair & Return service. Ordering Activity pays freight charges for inoperable equipment to Actelis factory (Fremont, CA). Actelis pays freight charges to return repaired equipment to ordering activity (Common Carrier – Ground Service)
All ACTELIS NETWORKS Out of Warranty:	Additional charges apply if hardware/software is Out-of-Warranty. Please refer to Price List (Non-Contracted Services) for more details

Dead on Arrival (DOA)

For hardware whose failure occurs less than ninety (90) days from shipment or ordering activity provided proof of an original sales receipt that shows ordering activity has purchased the failed unit from IP Integration, Inc. within the previous ninety (90) days, IP Integration, Inc. will ship a replacement unit generally within ten (10) business days from notification of failure. The failed unit is to be returned to IP Integration, Inc. in an undamaged and unaltered condition and in its original package no later than (10) days after receipt of the replacement unit otherwise the invoice for the full value will become payable. It is the responsibility of the ordering activity to verify that the malfunction is not caused by configuration, misapplication or shipping damage and ensure that the unit's physical and cosmetic appearance is like new.

Standard Warranty

For hardware whose failure occurs outside of the ninety (90) day timeframes noted above, IP Integration, Inc shall either repair the unit at the factory or furnish a replacement unit generally within (30) business days from receipt of the defective unit.

For any nonconformance of the Software to its specification, which significantly affects performance and is reported to IP Integration, Inc, in writing, during the Software Warranty period, IP Integration, Inc will provide an analysis of the problem and provide a workable solution.

To report any DOA or Warranty failures, the ordering activity should call IP Integration, Inc at (714) 557-5200 to obtain a return authorization (RA) number and shipping instructions. The ordering activity will be asked to provide the unit model and serial number and a contact name, phone number and email. The ordering activity is responsible for shipping charges to the repair center. IP Integration, Inc will prepay shipping expenses to return the unit to the ordering activity.

STANDARD PRODUCT WARRANTY DOES NOT INCLUDE TELEPHONE TECHNICAL ASSISTANCE OTHER THAN TO CONFIRM A PRODUCT FAILURE. ORDERING ACTIVITY DESIRING TELEPHONE SUPPORT OR OTHER ENHANCED WARRANTY SUPPORT SERVICES SHOULD CONTACT IPI TO ARRANGE PRICING ACCORDINGLY.

INDUSTRIAL VIDEO & CONTROL (IVC) – Standard Product Warranty

IP Integration, Inc warrants all products, under the terms and conditions of its standard agreements, to be free from defects in material and workmanship during normal service and under normal conditions and to meet its published specifications in effect at time of order for the warranty period specified below:

All IVC Hardware Products:	12 months
All IVC Software Products:	90 days
All IVC Repairs:	Factory Repair & Return service. Ordering Activity pays freight charges for inoperable equipment to IVC factory (Newton, MA). IVC pays freight return repaired equipment to ordering activity (Common Carrier – Ground Service)

Dead on Arrival (DOA)

For hardware whose failure occurs less than ninety (90) days from shipment or ordering activity provided proof of an original sales receipt that shows ordering activity has purchased the failed unit from IP Integration, Inc. within the previous ninety (90) days, IP Integration, Inc. will ship a replacement unit generally within ten (10) business days from notification of failure. The failed unit is to be returned to IP Integration, Inc. in an undamaged and

unaltered condition and in its original package no later than (10) days after receipt of the replacement unit otherwise the invoice for the full value will become payable. It is the responsibility of the ordering activity to verify that the malfunction is not caused by configuration, misapplication or shipping damage and ensure that the unit's physical and cosmetic appearance is like new.

Standard Warranty

For hardware whose failure occurs outside of the ninety (90) day timeframes noted above, IP Integration, Inc shall either repair the unit at the factory or furnish a replacement unit generally within (15) business days from receipt of the defective unit.

For any nonconformance of the Software to its specification, which significantly affects performance and is reported to IP Integration, Inc/IVC, in writing, during the Software Warranty period, IP Integration, Inc will provide an analysis of the problem and provide a workable solution.

To report any DOA or Warranty failures, the ordering activity should call IP Integration, Inc at (714) 557-5200 to obtain a return authorization (RA) number and shipping instructions. The ordering activity will be asked to provide the unit model and serial number and a contact name, phone number and email. The ordering activity is responsible for shipping charges to the repair center. IP Integration, Inc/IVC will prepay shipping expenses to return the unit to the ordering activity.

STANDARD PRODUCT WARRANTY DOES NOT INCLUDE TELEPHONE TECHNICAL ASSISTANCE OTHER THAN TO CONFIRM A PRODUCT FAILURE. ORDERING ACTIVITY DESIRING TELEPHONE SUPPORT OR OTHER ENHANCED WARRANTY SUPPORT SERVICES SHOULD CONTACT IPI TO ARRANGE PRICING ACCORDINGLY.

- b. IPI 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, IPI will not be liable to the ordering activity for consequential damages resulting from any defect or deficiencies in accepted items.
- d. Inspection and repair of defective equipment under this warranty will be performed at IPI's authorized factory locations; the addresses are as follows:

ACTELIS NETWORKS (Actelis)

All defective Actelis equipment will be returned and repaired at the following location:

ACTELIS NETWORKS
47800 Westinghouse Drive
Fremont, CA 94539
Phone: (510) 545-1045

INDUSTRIAL VIDEO & CONTROL (IVC)

All defective IVC equipment will be returned and repaired at the following location:

INDUSTRIAL VIDEO & CONTROL
330 Nevada Street
Newton, MA 02460
Phone: (617) 467-3059

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

IPI 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).

— END OF SECTION —

TERMS AND CONDITIONS APPLICABLE TO MAINTENANCE, REPAIR SERVICE
AND REPAIR PARTS/SPARE PARTS FOR GOVERNMENT-OWNED
GENERAL PURPOSE COMMERCIAL INFORMATION TECHNOLOGY EQUIPMENT
(AFTER EXPIRATION OF GUARANTEE/WARRANTY PROVISIONS AND/OR WHEN REQUIRED
SERVICE IS NOT COVERED BY GUARANTEE/WARRANTY PROVISIONS)

(SPECIAL ITEM NUMBER 132-12)

1. OUT OF WARRANTY PRODUCTS

a. The maintenance and repair service rates listed herein are applicable to any products listed in IPI's Information Technology Schedule whose standard warranty has expired or is not covered under the standard warranty offering. In the event that there are extenuating circumstances whereby the ordering activity cannot remove the out-of-warranty equipment and return it to IPI's authorized factory locations, the equipment can be serviced on site at the rates outlined below.

ON DEMAND SERVICES – REPAIR RATES

Provisioning of on-demand technical services is made available at the rates provided below. For service on IPI equipment, which is outside the standard warranty coverage, the "Per Call – No Maintenance" rates shall apply. Any ordering activity is required to call IP Integration, Inc at (714) 557-5200 for scheduling On-Demand services.

ON DEMAND SERVICE – TELEPHONE TECHNICAL ASSISTANCE (TROUBLESHOOTING RATES)

Standard product warranty does not include Telephone Technical Assistance other than to confirm a product failure. The following On-Demand hourly rates and conditions apply to "Per Call – No Maintenance" Telephone Technical Assistance.

Telephone Technical Assistance	Per Call – No Maintenance
Prime Time (9am – 5pm Local Time)	\$175/hr
After Hours	\$250/hr

ON DEMAND SERVICE – ONSITE TECHNICAL ASSISTANCE (REPAIR RATES)

Standard product warranty does not include OnSite Technical Assistance and requires the order activity to call IP Integration, Inc at (714) 557-5200 for scheduling this service. The following daily rates and conditions apply to "Per Visit – No Maintenance" and Technical Assistance. The ordering activity will also be responsible for travel and expenses incurred. Travel days over 4 hours are charged at \$800/day.

OnSite Technical Assistance	Per Visit – No Maintenance
Prime Time (9am – 5pm Local Time)	\$2,000/day
After Hours	\$3,000/day
Sundays and Holidays	\$4,000/day

b. All stand repair services will be performed at IPI's authorized factory locations; the addresses are as follows:

ACTELIS NETWORKS (Actelis)

All defective Actelis equipment will be returned and repaired at the following location:

ACTELIS NETWORKS
47800 Westinghouse Drive
Fremont, CA 94539
Phone: (510) 545-1045

INDUSTRIAL VIDEO & CONTROL (IVC)

All defective IVC equipment will be returned and repaired at the following location:

INDUSTRIAL VIDEO & CONTROL
330 Nevada Street
Newton, MA 02460
Phone: (617) 467-3059

2. MAINTENANCE ORDERS

a. Agencies may use written orders, credit card orders, or BPAs, for ordering maintenance under this contract. IPI shall confirm orders within (15) calendar days from the date of receipt, except that confirmation of orders shall be considered automatic for renewals for maintenance (Special Item Number 132-12). Automatic acceptance of order renewals for maintenance service shall apply for machines which may have been discontinued from use for temporary periods of time not longer than 120 calendar days. If the order is not confirmed by the ordering activity as prescribed by this paragraph, the order shall be considered to be confirmed by IPI.

b. IPI shall honor orders for maintenance for the duration of the contract period or a lesser period of time, for the equipment shown in the pricelist. Maintenance service shall commence on a mutually agreed upon date, which will be written into the maintenance order. Maintenance orders shall not be made effective before the expiration of any applicable maintenance and parts guarantee/warranty period associated with the purchase of equipment. Orders for maintenance service shall not extend beyond the end of the contract period.

c. Maintenance may be discontinued by the ordering activity on (30) calendar days of written notice, or shorter notice when agreed to by IPI; such notice will become effective (30) calendar days from the date on the notification. However, the ordering activity may extend the original discontinuance date upon written notice to IPI, provided that such notice is furnished at least (30) calendar days prior to the original discontinuance date.

d. Annual Funding. When annually appropriated funds are cited on a maintenance order, the period of maintenance shall automatically expire on September 30th of the contract period, or at the end of the contract period, whichever occurs first. Renewal of a maintenance order citing the new appropriation shall be required, if maintenance is to continue during any remainder of the contract period.

e. Cross-year Funding Within Contract Period. Where an ordering activity's specific appropriation authority provides for funds in excess of a 12 month, fiscal year period, the ordering activity may place an order under this schedule contract for a period up to the expiration of the contract period, notwithstanding the intervening fiscal years.

f. Ordering activities should notify IPI in writing (30) calendar days prior to the expiration of maintenance service, if maintenance is to be terminated at that time. Orders for continued maintenance will be required if maintenance is to be continued during the subsequent period.

3. REPAIR SERVICE AND REPAIR PARTS/SPARE PARTS ORDERS

- a. The maintenance and repair service offered under this contract is 'Return-To-Factory'. In the event that there are extenuating circumstances whereby the ordering activity cannot remove the equipment and return it to the factory, the equipment can be serviced on site at the rates outlined in Section 1(a) – (ON DEMAND SERVICE – ONSITE TECHNICAL ASSISTANCE).
- b. Agencies may use written orders, credit card orders, blanket purchase agreements (BPAs), or small order procedures for ordering repair service and/or repair parts/spare parts under this contract. Orders for repair service shall not extend beyond the end of the contract period.
- c. When OnSite Repair Service is ordered, only one chargeable technician shall be dispatched to perform repair service, unless the ordering activity and IPI mutually agree, in advance of scheduled visit, that additional repair technicians are required to effect repairs.

4. LOSS OR DAMAGE

Only when IPI technicians remove any IPI out-of-warranty equipment from an ordering activity installation to our authorized factory locations for repairs, IPI shall be responsible for any damage or loss, from the time the equipment is removed by IPI from the ordering activity installation, until the equipment is returned by IPI to such installation.

ACTELIS NETWORKS (Actelis)

The maintenance and repair service offered under this contract is 'Return-To-Factory'. The ordering activity is responsible to return IP Integration, Inc/Actelis equipment, which is out of warranty or not covered by a maintenance contract, to the IPI authorized factory repair center for repair. IP Integration, Inc/Actelis shall be responsible for any damage or loss of equipment from the time the equipment is received by the factory until the time it is returned to the ordering activity facility.

INDUSTRIAL VIDEO & CONTROL (IVC)

The standard maintenance and repair service offered under this contract is 'Return-To-Factory'. The ordering activity is responsible to return IP Integration, Inc/IVC equipment, which is out of warranty or not covered by a maintenance contract, to the IPI authorized factory repair center for repair. IP Integration, Inc/IVC shall be responsible for any damage or loss of equipment from the time the equipment is received by the factory until the time it is returned to the ordering activity facility.

5. SCOPE

- a. IPI shall provide maintenance or repair service for all equipment listed under this contract as requested by the ordering activity during the contract term. Repair service and repair parts/spare parts shall apply exclusively to the equipment types/models within the scope of IPI's Information Technology Schedule.
- b. Equipment placed under maintenance service shall be in good operating condition as determined by IPI.
 - (1) In order to determine that the equipment is in good operating condition, the equipment shall be subject to inspection by IPI, without charge to the ordering activity.

- (2) Costs of any repairs performed for the purpose of placing the equipment in good operating condition shall be borne by IPI, if the equipment was under IPI's guarantee/warranty or maintenance responsibility prior to the effective date of the maintenance order.
- (3) If the equipment was not under IPI's responsibility, the costs necessary to place the equipment in proper operating condition are to be borne by the ordering activity, in accordance with the provisions of Special Item Number 132-12 (or outside the scope of this contract).

6. RESPONSIBILITIES OF THE ORDERING ACTIVITY

- a. Ordering activity must call IP Integration, Inc at 1-714-557-5200 for a return authorization (RA) and shipping instructions prior to sending any equipment back to IPI's factory for repair service.
- b. Ordering activity personnel shall not perform maintenance or attempt repairs to equipment while such equipment is under the purview of a maintenance order, unless agreed to by IPI.
- c. Subject to security regulations, the ordering activity shall permit access to IPI equipment which is to be maintained, serviced or repaired by IPI.

7. RESPONSIBILITIES OF THE CONTRACTOR

- a. The standard maintenance and repair service offered under this contract is standard 'Return-To-Factory' for all equipment whose warranty has expired or is not covered under the standard warranty offering. The ordering activity may return IP Integration, Inc equipment, which is out of warranty or not covered by a maintenance contract to IPI's authorized factory locations for repair. Repairs are priced on a flat fee basis (please refer to Section 9(a) for pricing information).
- b. For equipment not covered by a maintenance contract or warranty, IPI's authorized factory shall complete repairs as soon as possible after notification by the ordering activity that service is required. The repair service should normally be completed within (30) business days from receipt of the defective unit.

ACTELIS NETWORKS (Actelis)

Factory Repair Service Includes:

- The repair or replacement is at IP Integration, Inc's sole discretion for a failed unit outside of the warranty period or other service offering. Repairs are priced on a flat fee basis (please refer to Section 9(a) for pricing information).
- Repairs are warranted for 1 year from the date of repair. Should the equipment fail with the same problem during this period; the ordering activity may return the equipment to IPI's repair center for no-cost repair service.
- The ordering activity is responsible for shipping charges to IPI's repair center. IP Integration, Inc/Actelis Networks will pay shipping charges (Ground Service) to return the repaired unit to the ordering activity.

INDUSTRIAL VIDEO & CONTROL (IVC)

Factory Repair Service Includes:

- The repair or replacement is at IP Integration, Inc's sole discretion for a failed unit outside of the warranty period or other service offering. Repairs are priced on a flat fee basis (please refer to Section 9(a) for pricing information).

- Repairs are warranted for 1 year from the date of repair. Should the equipment fail with the same problem during this period; the ordering activity may return the equipment to IPI's repair center for no-cost repair service.
- The ordering activity is responsible for shipping charges to IPI's repair center. IP Integration, Inc will pay shipping charges (Ground Service) to return the repaired unit to the ordering activity.

8. MAINTENANCE RATE PROVISIONS

a. IPI shall bear all 'Return-To-Factory' costs of maintenance, including labor, parts, and such other expenses as are necessary to keep the warranted equipment in good operating condition, provided that the required repairs are not occasioned by fault or negligence of the ordering activity. The ordering activity is responsible to keep track of warranted equipment and to notify IPI upon warranty expiration.

ACTELIS NETWORKS (Actelis)

The maintenance and repair service offered under this contract is defined in the enclosed price list. The ordering activity may return IP Integration, Inc equipment, which is out of warranty or not covered by a maintenance contract, to the factory repair center for repair. Repairs are priced on a flat fee basis (please refer to Section 9(a) for pricing information). In addition, IP Integration, Inc offers various enhanced maintenance options (Extended Warranty & Services) available for purchase. Please refer to our pricelist for pricing of each make and model of equipment.

INDUSTRIAL VIDEO & CONTROL (IVC)

The maintenance and repair service offered under this contract is defined in the enclosed price list. The ordering activity may return IP Integration, Inc equipment, which is out of warranty or not covered by a maintenance contract, to the factory repair center for repair. Repairs are priced on a flat fee basis (please refer to Section 9.a for pricing information). In addition, IP Integration, Inc offers various enhanced maintenance options (Extended Warranty & Services) available for purchase. Please refer to our pricelist for pricing of each make and model of equipment.

b. ON DEMAND SERVICE – ONSITE TECHNICAL ASSISTANCE (REGULAR HOURS)

The maintenance and repair service offered under this contract is 'Return-To-Factory'. In the event that there are extenuating circumstances whereby the ordering activity cannot remove the equipment and return it to IPI's factory, the equipment can be serviced on site (Prime Time) at the rates outlined below.

The basic onsite rate for each make and model of equipment shall entitle the ordering activity to maintenance service during a mutually agreed upon nine (9) hour principal period of maintenance, Monday through Friday, exclusive of holidays observed by IPI. Travel and Expenses are not included and will be billed separately.

OnSite Technical Assistance	Per Visit – No Maintenance
Prime Time (9am – 5pm Local Time)	\$2,000/day

c. ON DEMAND SERVICE – ONSITE TECHNICAL ASSISTANCE (AFTER HOURS)

The maintenance and repair service offered under this contract is 'Return-To-Factory'. In the event that there are extenuating circumstances whereby the ordering activity cannot remove the equipment and return it to IPI's factory, the equipment can be serviced on site (After Hours) at the rates outlined below.

The basic onsite rate for each make and model of equipment shall entitle the ordering activity to maintenance service after hours, Monday through Friday, exclusive of holidays observed by IPI. Travel and Expenses are not included and will be billed separately.

OnSite Technical Assistance	Per Visit – No Maintenance
After Hours	\$3,000/day

d. ON DEMAND SERVICE – ONSITE TECHNICAL ASSISTANCE (WEEKENDS & HOLIDAYS)

The maintenance and repair service offered under this contract is ‘Return-To-Factory’. In the event that there are extenuating circumstances whereby the ordering activity cannot remove the equipment and return it to IPI’s factory, the equipment can be serviced on site (Holidays) at the rates outlined below.

The basic onsite rate for each make and model of equipment shall entitle the ordering activity to maintenance service on weekends or holidays observed by IPI, Monday through Sunday. Travel and Expenses are not included and will be billed separately.

OnSite Technical Assistance	Per Visit – No Maintenance
Sundays and Holidays	\$4,000/day

e. TRAVEL AND TRANSPORTATION

For all On Demand Services outlined above, the ordering activity will also be responsible for travel and expenses incurred. In addition, travel days over 4 hours are charged at \$800/day.

9. REPAIR SERVICE RATE PROVISIONS

a. CHARGES

Charges for out-of-warranty repair service will include the labor charge, computed at the rates set forth below, for the time during which repairmen are actually engaged in work, and, when applicable, the charge for travel or transportation.

ACTELIS NETWORKS (Actelis)

The maintenance and repair service offered under this contract is ‘Return-To-Factory’. The ordering activity may return IP Integration, Inc/Actelis Networks equipment, which is out of warranty or not covered by a maintenance contract, to IPI’s factory repair center for repair. Repairs are priced on a flat fee basis by equipment type (please refer to the table below for pricing information). For repairable equipment IP Integration, Inc/Actelis Networks will either repair the equipment or exchange it with a refurbished unit at the repair price. The repair service includes a 1-year hardware warranty at no additional charge.

Factory Repair Service	Repair Cost
30 day Repair Cycle	Flat Fee based on Equipment Type

INDUSTRIAL VIDEO & CONTROL (IVC)

The maintenance and repair service offered under this contract is ‘Return-To-Factory’. The ordering activity may return IP Integration, Inc/IVC equipment, which is out of warranty or not covered by a maintenance contract, to IPI’s factory repair center for repair. Repairs are priced on a flat fee basis by equipment type (please refer to the table below for pricing information). For repairable equipment IP Integration, Inc/ IVC will either repair the equipment or exchange it with a refurbished unit at the repair price. The repair service includes a 1-year hardware warranty at no additional charge.

Factory Repair Service	Repair Cost
30 day Repair Cycle	Flat Fee based on Equipment Type

— END OF SECTION —

TERMS AND CONDITIONS APPLICABLE TO TRAINING COURSES FOR GENERAL PURPOSE
COMMERCIAL INFORMATION TECHNOLOGY EQUIPMENT AND SOFTWARE
(SPECIAL ITEM NUMBER 132-50)

1. SCOPE

- a. IPI shall provide training courses normally available to commercial customers, which will permit ordering activity users to make full, efficient use of general purpose commercial IT products. Training is restricted to training courses for those products within the scope of this solicitation.
- b. IPI shall provide training at IPI's facility and/or at the ordering activity's location, as agreed to by IPI and the ordering activity.

2. ORDER

Written orders, credit card orders, and orders placed under blanket purchase agreements (BPAs) shall be the basis for the purchase of training courses in accordance with the terms of this contract. Orders shall include the student's name, course title, course date and time, and contracted dollar amount of the course.

3. TIME OF DELIVERY

IPI shall conduct training on the date (time, day, month, and year) mutually agreed to by IPI and the ordering activity.

4. CANCELLATION AND RESCHEDULING

- a. The ordering activity will notify IPI at least two (2) weeks before the scheduled training date, if a student will be unable to attend. IPI will then permit the ordering activity to either cancel the order or reschedule the training at no additional charge. In the event the training class is rescheduled, the ordering activity will modify its original training order to specify the time and date of the rescheduled training class.
- b. In the event the ordering activity fails to cancel or reschedule a training course within the time frame specified in paragraph a, above, the ordering activity will be liable for the contracted dollar amount of the training course. IPI agrees to permit the ordering activity to reschedule a student who fails to attend a training class within ninety (90) days from the original course date, at no additional charge.
- c. The ordering activity reserves the right to substitute one student for another up to the first day of class.
- d. In the event IPI is unable to conduct training on the date agreed to by IPI and the ordering activity, IPI must notify the ordering activity at least seventy-two (72) hours before the scheduled training date.

5. FOLLOW-UP SUPPORT

IPI agrees to provide each student with limited telephone support for a period of three (3) months from the completion of the training course. During this period, the student may contact IPI's instructors for refresher assistance and answers to related course curriculum questions.

6. PRICE FOR TRAINING

The price that the ordering activity will be charged will be the ordering activity training price in effect at the time of order placement, or the ordering activity price in effect at the time the training course is conducted, whichever is less.

7. INVOICES AND PAYMENT

Invoices for training shall be submitted by IPI after ordering activity completion of the training course. Charges for training must be paid in arrears (31 U.S.C. 3324).

8. FORMAT AND CONTENT OF TRAINING

a. IPI shall provide written materials (i.e., manuals, handbooks, texts, etc.) normally provided with course offerings. Such documentation will become the property of the student upon completion of the training class.

b. ****IF APPLICABLE**** For hands-on training courses, there must be at least one assignment of IT equipment provided by IPI or ordering activity for students to use.

ACTELIS NETWORKS (Actelis)

COURSE TITLE: ETHERNET IN THE FIRST MILE TRAINING (IPI-TRN-ACT)

COURSE CONTENT: IPI Customized Two-day training course. Provides student with details on set-up and operation of EFM broadband system. Course conducted at IPI/Actelis Networks facility. Priced per student (minimum of 2 students, maximum of 8 students)

LENGTH: 2.0 days

PREREQUISITES: There are no mandatory prerequisites for the courses described in this catalog; however, it is desirable that students have a basic understanding of computer PC and Ethernet network operations.

LOCATION: Actelis Networks
47800 Westinghouse Drive
Fremont, CA 94539

CLASS SCHEDULE: This course will be scheduled based on customer request

PRICE PER STUDENT: \$1,000.00

COURSE TITLE: ETHERNET IN THE FIRST MILE TRAINING (IPI-TRN-ACTCUS)

COURSE CONTENT: IPI Customized Two-day training course. Provides student with details on set-up and operation of EFM broadband system. Course conducted at ordering activity facility. Priced per site (minimum of 2 students, maximum of 8 students). Instructor travel and expenses not included.

Requires 14 day advanced notice

LENGTH: 2.0 days

PREREQUISITES: There are no mandatory prerequisites for the courses described in this catalog; however, it is desirable that students have a basic understanding of computer PC and Ethernet network operations.

LOCATION: Ordering Activity Location (Must be within the 48 contiguous states and the District of Columbia)

CLASS SCHEDULE: This course will be scheduled based on customer request

PRICE PER SITE: \$6,000.00

INDUSTRIAL VIDEO & CONTROL (IVC)

COURSE TITLE: IVC VIDEO SECURITY SYSTEMS TRAINING (IPI-TRN-IVC)

COURSE CONTENT: IPI Customized Two-day training course. Provides student with details on set-up and operation of IVC Video Security System. Course conducted at IPI/Actelis Networks facility. Priced per student (minimum of 2 students, maximum of 8 students)

LENGTH: 2.0 days

PREREQUISITES: There are no mandatory prerequisites for the courses described in this catalog; however, it is desirable that students have a basic understanding of computer PC and Ethernet network operations.

LOCATION: Industrial Video & Control
330 Nevada Street
Newton, MA 02460

CLASS SCHEDULE: This course will be scheduled based on customer request

PRICE PER STUDENT: \$985.00

COURSE TITLE: IVC VIDEO SECURITY SYSTEMS TRAINING (IPI-TRN-IVCCUS)

COURSE CONTENT: IPI Customized Two-day training course. Provides student with details on set-up and operation of EFM broadband system. Course conducted at ordering activity facility. Priced per site (minimum of 2 students, maximum of 8 students). Instructor travel and expenses not included.

Requires 14 day advanced notice

LENGTH: 2.0 days

PREREQUISITES: There are no mandatory prerequisites for the courses described in this catalog; however, it is desirable that students have a basic understanding of computer PC and Ethernet network operations.

LOCATION: Ordering Activity Location (Must be within the 48 contiguous states and the District of Columbia)

CLASS SCHEDULE: This course will be scheduled based on customer request

PRICE PER SITE: \$6,500.00

c. For those courses conducted at the ordering activity's location, instructor travel charges (if applicable), including mileage and daily living expenses (e.g., per diem charges) are governed by Pub. L. 99-234 and FAR Part 31.205-46, and are reimbursable by the ordering activity on orders placed under the Multiple Award Schedule, as applicable, in effect on the date(s) the travel is performed. IPI cannot use GSA city pair contracts. The Industrial Funding Fee does NOT apply to travel and per diem charges.

9. "NO CHARGE" TRAINING

IPI shall describe any training provided with equipment and/or software provided under this contract, free of charge, in the space provided below.

[NOT APPLICABLE]

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

1. SCOPE

- a. The prices, terms and conditions stated under Special Item Number 132-51 Information Technology Professional Services apply exclusively to IT Services within the scope of this Information Technology Schedule.
- b. IPI shall provide Professional Services at IPI's facility and/or at the ordering activity's location, as agreed to by IPI and the ordering activity.

2. PERFORMANCE INCENTIVES

- a. Performance incentives may be agreed upon between IPI and the ordering activity on individual fixed price orders or Blanket Purchase Agreements under this contract in accordance with this clause.
- 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 IPI 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 IPI. Incentives shall be based on objectively measurable tasks as mutually agreed to by the ordering activity and IPI.

3. ORDER

- a. Agencies may use written orders, credit cards, 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. IPI shall commence performance of services on the date mutually agreed to by IPI and the ordering activity.
- b. IPI agrees to render services only during normal working hours, unless otherwise agreed to by IPI 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 IPI 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 IPI travel.

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

a. Contracting Officer may, at any time, by written order to IPI, require IPI 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 IPI, 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, IPI 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 IPI, 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, IPI 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 IPI's cost properly allocable to, the performance of any part of this contract; and

(2) IPI 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

The Inspection of Services–Fixed Price (AUG 1996) (Deviation – May 2003) clause at FAR 52.246-4 applies to firm-fixed price orders placed under this contract. The Inspection–Time-and-Materials and Labor-Hour (JAN 1986) (Deviation – May 2003) clause at FAR 52.246-6 applies to time-and-materials and labor-hour orders placed under this contract.

7. RESPONSIBILITIES OF THE CONTRACTOR

IPI 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 (Deviation – May 2003) Rights in Data – General, may apply.

8. RESPONSIBILITIES OF THE ORDERING ACTIVITY

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

9. INDEPENDENT CONTRACTOR

All IT Services performed by IPI 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:

- (1) Result in an unfair competitive advantage to the Contractor or its affiliates; or
- (2) 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 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 contract. For time-and-materials orders, the payments under Time-and-

Materials and Labor-Hour Contracts at FAR 52.232-7 (DEC 2002), (Alternate II – Feb 2002) (Deviation – May 2003) 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 52.232-7 (DEC 2002), (Alternate II – Feb 2002) (Deviation – May 2003)) applies to labor-hour orders placed under this contract.

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 SERVICES AND PRICING

LABOR CATEGORIES

ANALYTICAL STAFF

<p>DESCRIPTION:</p>	<p>Individuals requiring the training, analytical/programmatic skills and experience to operate within a high-tech environment. Experience in system analysis and implementation of system engineering; or electrical design, design assurance, software engineering, program design and implementation or testing of high-tech products and systems. Equivalent experience may be substituted for a degree.</p>
<p>MINIMUM/ GENERAL EXPERIENCE:</p>	<p>The Analytical Staff must possess professional training or equivalent experience in one of the following types of disciplines: computer science; computer systems; decision support; computer security; electronic commerce; business process reengineering; business process analyses; information architecture planning and design; engineering; operations research; modeling and simulation; math; physics; quality assurance; systems analysis; business or management.</p>
<p>FUNCTIONAL RESPONSIBILITY:</p>	<p>The Analytical Staff provides specialized knowledge of system requirements and programming specifications. Designs solutions based on customer needs and technical considerations. Analyzes job tasks, organizational structure and user requirements to provide system-wide solutions. Applies analytical expertise to assist in defining, analyzing, validating and documenting complex operating environments, states of technology and current processes.</p>

1. Senior Technical Consultant:

Minimum/General Experience: Three years of technical analysis experience is required. Type of experience necessary includes two years related technical analysis experience.

Functional Responsibility: Provides highly technical expertise in conducting capabilities studies, requirements analysis, and technology assessments.

GSA HOURLY RATE: \$145.50

MANAGEMENT STAFF

<p>DESCRIPTION:</p>	<p>Individuals requiring the training skills and experience of professional, technical or analytical staff plus extensive management/supervisory experience. Must have technical or managerial experience in information resources management. Equivalent experience may be substituted for a degree.</p>
<p>MINIMUM/ GENERAL EXPERIENCE:</p>	<p>Individuals requiring the training skills and experience of professional, technical or analytical staff plus extensive management/supervisory experience. Must have technical or managerial experience in information resources management. Equivalent experience may be substituted for a degree.</p>
<p>FUNCTIONAL RESPONSIBILITY:</p>	<p>The Management staff typically is responsible for the technical contract management of programs and projects. Majority of contact with various management levels within operating unit, at other operating units and within the customer community concerning programs/projects,</p>

2. Installation Supervisor:

Minimum/General Experience: Two years of technical experience is required. Type of experience necessary includes one year of technical experience in acquisition, installation and configuration of network systems. And one year of supervisory experience over an acquisition, installation and configuration of a network system project.

Functional Responsibility: Provides highly technical expertise in installation configuration, application customization, testing and cutover support. Supervises systems implementation team.

Minimum Education: Bachelor's Degree in Computer Science, Information Systems, Engineering, Business, or other related scientific or technical discipline. Four years of applicable professional technical experience may be substituted for degree requirements.

GSA HOURLY RATE: \$165.00

3. Project Manager:

Minimum/General Experience: A minimum of six years of technical experience is required. Type of experience necessary: Four years experience in management of a multi-disciplined team. Fully qualified in one of the senior labor categories called for in the Task Order.

Functional Responsibility: Responsible for the technical aspects of a given task order.

Minimum Education: Bachelor's Degree in Computer Science, Information Systems, Engineering, or related scientific or technical discipline.

GSA HOURLY RATE: \$165.00

PROFESSIONAL STAFF

<p>DESCRIPTION:</p>	<p>Individuals requiring the training, skills and experience of Technical Staff, plus extensive breadth and depth of knowledge in one or more specific domains and normally operating in a management structure which provides sophisticated planning, scheduling, performance tracking, risk management and day-to-day program administration. Equivalent experience may be substituted for a degree.</p>
<p>MINIMUM/ GENERAL EXPERIENCE:</p>	<p>The Professional Staff is generally experienced in one or more specific domains and may have experience as a subject matter expert in a related military or commercial application. Must process training or equivalent experience in one of the following types of disciplines: computer science; computer systems; decision support; computer security; electronic commerce; business process reengineering; business process analyses; information architecture planning and design; engineering; operations research; modeling and simulation; math; physics; quality assurance; systems analysis; business or management. Professional staff shall have industry professional certifications.</p>
<p>FUNCTIONAL RESPONSIBILITY:</p>	<p>The Professional Staff should be able to obtain a security clearance at the level of Secret or higher and/or be able to perform in an environment involving special security requirements, as tasks orders may dictate. Demonstrates a broad knowledge of the technical discipline and applies extensive expertise as a generalist. Applies and or develops advanced technologies, scientific principles, theories and concepts in related technical disciplines or in a specialty.</p>

4. Communications Systems Engineer:

Functional Responsibility: Provide advice and technical assistance on development of IT architectures, systems integration projects, strategic plans and evaluations. Advises and facilitates the defining, designing, development, implementation, and fielding of client server systems. Research advanced information technology tools to enhance, capture, deliver and analyze data. These tools include software, hardware, modeling and simulation, computer-aided system design and software engineering tools. Establish criteria to evaluate results including models, simulations and benchmarks. Edit and write technical articles, reports and briefings.

Minimum Education: Four years communication system design experience with experience in hardware and software integration. Bachelor's degree in computer science, a related field or equivalent experience.

GSA HOURLY RATE: \$165.00

5. Network Engineer:

Minimum/General Experience: Four years of technical experience is required. Type of experience necessary includes two years of related technical experience, and one year of supervisory experience.

Functional Responsibility: Analyzes network security and surveillance systems. Possess knowledge in Ethernet networking and Windows operating systems. Provides support on all phases of analysis, design, testing, security and implementation.

Minimum Education: Bachelor's Degree in computer related discipline and two years technical experience applicable to designing, installing, troubleshooting, and supporting multiple server networks. An additional four years related experience may be substituted for the Bachelor's Degree.

GSA HOURLY RATE: \$150.00

6. Senior Network Engineer:

Minimum/General Experience: Eight years of technical experience is required. Type of experience necessary includes four years of related technical experience, and three years of supervisory experience.

Functional Responsibility: Analyzes network characteristics, designs for complex environments including installation and troubleshooting. Analyzes network security and surveillance systems. Possess knowledge in Ethernet networking and Windows operating systems. Provides support on all phases of analysis, design, testing, security and implementation. Leads project teams in system consolidation, information security, software upgrades, and contingency management planning and execution.

Minimum Education: Bachelor's Degree in computer related discipline and five years technical experience applicable to designing, installing, troubleshooting, and supporting multiple server networks. An additional six years related experience may be substituted for the Bachelor's Degree.

GSA HOURLY RATE: \$195.00

IT BLANKET PURCHASE AGREEMENT

BEST VALUE
BLANKET PURCHASE AGREEMENT FEDERAL SUPPLY SCHEDULE

(Insert Customer Name)

In the spirit of the Federal Acquisition Streamlining Act (ordering activity) and IP Integration, Inc. enter into a cooperative agreement to further reduce the administrative costs of acquiring commercial items from the General Services Administration (GSA) Federal Supply Schedule Contract(s) _____.

Federal Supply Schedule contract BPAs eliminate contracting and open market costs such as: search for sources; the development of technical documents, solicitations and the evaluation of offers. Teaming Arrangements are permitted with Federal Supply Schedule Contractors in accordance with Federal Acquisition Regulation (FAR) 9.6.

This BPA will further decrease costs, reduce paperwork, and save time by eliminating the need for repetitive, individual purchases from the schedule contract. The end result is to create a purchasing mechanism for the ordering activity that works better and costs less.

Signatures

Ordering Activity Date

Contractor Date

BPA NUMBER _____

(CUSTOMER NAME)
BLANKET PURCHASE AGREEMENT

Pursuant to GSA Federal Supply Schedule Contract Number(s) _____ and Federal Acquisition Regulation (FAR) 8.405-3, Blanket Purchase Agreements (BPAs), the Contractor agrees to the following terms of a BPA EXCLUSIVELY WITH ___(Ordering Agency)___ :

- (1) The following contract services/products 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:

ITEM (Model/Part Number or Type of Service)

SPECIAL BPA DISCOUNT/PRICE

- (2) Delivery:

DESTINATION

DELIVERY SCHEDULE/DATES

- (3) The Government 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, paper, or oral communications.

- (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) Task/Delivery 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 as specified in the Federal Supply Schedule contract. Invoices will be submitted to the address specified within the task/delivery 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.

— END OF SECTION —

IPI GSA PRICE LIST - ACTELIS NETWORKS
GSA SCHEDULE No: GS-35F-0740P
EFFECTIVE DATE: OCTOBER 2019

PRODUCT CODE	DESCRIPTION	GSA PRICE	HARDWARE WARRANTY
IPI-TH016501RG0	ML622 (ROHS6) - 2 pairs, 4x10/100BaseT, standard QoS, ROHS-6 compliant	\$748.00	24 Months
IPI-TH062501RG0	ML622i CPE - Fanless CPE, 2 pairs, 4x10/100BaseT, standard QoS, ROHS-6 compliant	\$522.00	24 Months
IPI-TH046501RG0	ML624 (ROHS6) - 4 pairs, 4x10/100BaseT+1 SFP for 100Base-FX, standard QoS, ROHS-6 compliant, SFP should be ordered separately	\$1,123.00	24 Months
IPI-TH064501RG0	ML624i CPE - Fanless CPE, 4 pairs, 4x10/100BaseT, standard QoS, ROHS-6 compliant	\$823.00	24 Months
IPI-TH027501RG0	ML628 (ROHS6) - 8 pairs, 4x10/100BaseT+1 SFP for 100BaseFX, standard QoS, ROHS-6 compliant, SFP should be ordered separately	\$1,499.00	24 Months
IPI-TH067501RG0	ML638 (ROHS6) - 8 pairs, 4x10/100BaseT +1x100/1000BaseFX/LX/T, standard QoS, ROHS-6 compliant, SFP should be ordered separately	\$1,506.00	24 Months
IPI-TH161501RG0	ML6416 - 16 pairs, 4x10/100BaseT+2x100/1000Base-FX, CE2.0 certified, ROHS-6 compliant, SFP should be ordered separately	\$2,624.00	24 Months
IPI-TH218501RG0	ML6416E - 16 pairs, 4x10/100BaseT+2x100/1000Base-FX, CE2.0 certified, ROHS-6 compliant, SFP should be ordered separately	\$3,000.00	24 Months
IPI-TH501RG0	ML644 (ROHS6) - 4 pairs, 4x10/100BaseT+2x100/1000Base-FX, advanced QoS, ROHS-6 compliant, SFP should be ordered separately	\$1,273.00	24 Months
IPI-TH037501RG0	ML648 - ROHS6 / 8 pairs, 4x10/100BaseT+2x100/1000Base-FX, advanced QoS, ROHS-6 compliant, SFP should be ordered separately	\$1,649.00	24 Months
IPI-TH076501RG0	ML654S - 4 pairs, CES + Clock distribution, 4x10/100BaseT+2x100/1000Base-FX + 4xE1/T1, SyncE, advanced QoS, ROHS-6 compliant, SFP should be ordered separately	\$1,649.00	24 Months
IPI-TH077501RG0	ML658S - 8 pairs, CES + Clock distribution, 4x10/100BaseT+2x100/1000Base-FX + 4xE1/T1, SyncE, advanced QoS, ROHS-6 compliant, SFP should be ordered separately	\$1,949.00	24 Months
IPI-TH238501RG0	ML6916E - Compact Aggregator,4HSL,16 pairs,CE2.0, advanced H-QoS, 4x10/100/1000BaseT+ 2x100/1000Base-FX, ROHS-6 compliant, SFP should be ordered separately (refer to Type C products)	\$3,975.00	24 Months
IPI-TH0347501RG	ML698 (IGMP) - Micro CO, 8 pairs, up to 4 HSL, 4x10/100Base-T+1x100/1000Base-FX SFP, standard QoS, IGMP Snooping ready, ROHS-6 compliant, SFP should be ordered separately	\$2,249.00	24 Months
IPI-TH241510KG6	ML 624 Kit - (1x ML 624 ROHS6 Supports 4 pairs)(1x Wall Mount Kit)(10ft/3m, 4xRJ-45 to open end, solid wires)(1x AC-DC Adapter)	\$1,314.00	24 Months



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PRODUCT CODE	DESCRIPTION	GSA PRICE	HARDWARE WARRANTY
IPI-TH064510K60	ML 624i Kit - (1x ML 624i Supports 4 pairs)(1x Wall Mount Kit)(10ft/3m, 4xRJ-45 to open end, solid wires)(1x US/EU AC-DC Adapter)	\$1,014.00	24 Months
IPI-TH510KG6	ML 628 Kit - (1x ML 628 ROHS6 Supports 8 pairs)(1x Wall Mount Kit)(10ft/3m, 8xRJ-45 to open end, solid wires)(1x AC-DC Adapter)	\$1,705.00	24 Months
IPI-381510KG6	ML 638 Kit - (1x ML 638 ROHS6 Supports 8 pairs)(1x Wall Mount Kit)(10ft/3m, 8xRJ-45 to open end, solid wires)(1x AC-DC Adapter)	\$1,712.00	24 Months
IPI-TH394501S20	ML638 Rackmount Kit - (1x ML638 ROHS6 Supports 8 pairs)(1x Rack Mount Kit)(10ft/3m, 8xRJ-45 to open end, solid wires)	\$2,065.00	24 Months
IPI-TH161501RG0	ML6416 Kit - (1x ML6416 supports 16 pairs)(1x Wall Mount Kit)(10ft/3m, Octal Dual RJ-45 to open end, solid wires)(1x AC-DC Adapter)	\$2,789.00	24 Months
IPI-TH060510KG0	ML644 Kit - (1x ML644 supports 4 pairs)(1x Wall Mount Kit)(10ft/3m, 4xRJ-45 to open end, solid wires)(1x AC-DC Adapter)	\$1,408.00	24 Months
IPI-TH061510KG0	ML648 Kit - (1x ML648 supports 8 pairs)(1x Wall Mount Kit)(10ft/3m, 8xRJ-45 to open end, solid wires)(1x AC-DC Adapter)	\$1,799.00	24 Months
IPI-TH347501S00	ML 698 Kit - (2x ML 698-IGMP supports 8 pairs and up to 4 HSLs each)(1x rack mount Kit for 2xML600)(1xEthernet daisy-chaining cable)	\$4,501.00	24 Months
IPI-TH502R20	Chassis 200 Shelf	\$737.00	24 Months
IPI-TH110502R02	Chassis 2000B Shelf, 19 inch (CHS-2000B/19)	\$1,949.00	24 Months
IPI-TH042503R60	SDU450 - Supports ML230/ML2300, 2x 10/100/1000bT + 4xFE/GE uplinks, up to 4 MLU-32/MLU-64 and 128 links	\$6,753.00	24 Months
IPI-TH043503R60	SDU450G - Supports ML230/ML2300, 2x 10/100/1000bT + 4xFE/GE + 4x GE/2.5GE uplinks, up to 4 MLU-32/MLU-64 and 128 links	\$7,503.00	24 Months
IPI-TH041503R60	SDU455G - ML230/ML2300, 2x 10/100/1000bT + 4x GE/2GE uplinks+ 4x GE/2.5GE uplinks, up to 4 MLU-32/MLU-64 and 128 links. Includes TDM clock distribution - E1/T1, 2MHz, SyncE	\$8,254.00	24 Months
IPI-TH132503R20	MLU32DF - 32 pairs line card, Front access connection. Compatible with ML230 and ML2300	\$4,129.00	24 Months
IPI-TH232503R20	MLU32DR - 32 pairs line card, Rear access connection. Compatible with ML230 and ML2300	\$4,129.00	24 Months
IPI-TH164503R20	MLU64DF - 64 pairs line card, Front access connection. Compatible with ML230 and ML2300. Note: Requires SDU-450 series	\$6,002.00	24 Months



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IPI-TH264503R20	MLU64DR - 64 pairs line card, Rear access connection. Compatible with CHS-200 and CHS-2000B. Note: Requires SDU-450 series	\$6,002.00	24 Months
IPI-TH006506R00	AC-DC Adapter for ML500/ML600/ML740/ML58N RevB - 110/220VAC Feed. North American type power cord	\$76.00	24 Months
IPI-TH08S506R000	AC-DC Adapter NA for ML620i - DOE6 compliant 110/220VAC Feed, North American type power cord	\$46.00	24 Months
IPI-TH070510R21	Rack Mount Kit for two ML500/ML600/ML700/PFU-8s - Supports 2x ML500/ML600/ML700/PFU-8 units	\$148.00	24 Months
IPI-TH080510R21	Wall Mount Kit for ML500/ML600/ML700 - Supports 1x ML500/ML600/ML700 unit	\$35.00	24 Months
IPI-TH955510R50	Wall Mount Kit for ML500/ML600/ML700, Flat Faced - Supports 1x ML500/ML600/ML700 unit	\$65.00	24 Months
IPI-TH680508R00	Blank Panel Kit (4 blank panels) - A kit of 4 blank panels to cover unused slots in the ML230/ML2300	\$31.00	24 Months
IPI-TH099501RG2	PFU-8 Rev D - Power Feed Unit, 8 ports, for XR239/SE repeaters feed. Current and Voltage limited (+-130VDC) , support up to 4 repeated hops.	\$522.00	24 Months
IPI-TH097501RG2	XR239 Repeater (No Rewiring) - 2-pairs repeater, 11.4Mbps throughput, 239 mechanics, ROHS-6 Compliant, remote power feeding from CO or CPE with no rewiring, enhanced diagnostics	\$823.00	24 Months
IPI-TH530501RG0	ML530 - Fiber EAD, 4x10/100BaseT+2x100/1000Base-FX, standard QoS, ROHS-6 compliant, SFP should be ordered separately	\$601.00	24 Months
IPI-TH156501RG0	ML744 (O) - 4 pairs DMT CO, 4x10/100BaseT+2x100/1000Base-FX, advanced QoS, ROHS-6 compliant, SFP should be ordered separately	\$1,727.00	24 Months
IPI-TH256501RG0	ML744 (R) - 4 pairs DMT CPE, 4x10/100BaseT+2x100/1000Base-FX, advanced QoS, ROHS-6 compliant, SFP should be ordered separately	\$1,727.00	24 Months
IPI-TH137501RG0	ML748 (O) - 8 pairs DMT CO, 4x10/100BaseT+2x100/1000Base-FX, advanced QoS, ROHS-6 compliant, SFP should be ordered separately	\$2,249.00	24 Months
IPI-TH237501RG0	ML748 (R) - 8 pairs DMT CPE, 4x10/100BaseT+2x100/1000Base-FX, advanced QoS, ROHS-6 compliant, SFP should be ordered separately	\$2,249.00	24 Months
IPI-TH2B1501S2044	ML230 Bundle 1 - (1xCHS-200/19", 1xSDU-450, 1xMLU-32DF, 1x blank panel, 1x -48VDC PWR&GND)	\$11,616.00	24 Months



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IPI-TH3B2501S2044	ML230 Bundle 2 - (1xCHS-200/19", 1xSDU-450, 1xMLU-32DR, 1x blank panel, 1x -48VDC PWR&GND)	\$11,616.00	24 Months
IPI-TH1B3501S2044	ML230 Bundle 3 - (1xCHS-200/19", 1xSDU-450, 1xMLU-64DF, 1x blank panel, 1x -48VDC PWR&GND)	\$13,489.00	24 Months
IPI-TH6B4501S2043	ML230 Bundle 4 - (1xCHS-200/19", 1xSDU-450, 1xMLU-64DR, 1x blank panel, 1x -48VDC PWR&GND)	\$13,489.00	24 Months
IPI-TH5B5501S2044	ML230 Bundle 5 - (1xCHS-200/19", 1xSDU-450G, 1xMLU-32DF, 1x blank panel, 1x -48VDC PWR&GND)	\$12,367.00	24 Months
IPI-TH6B6501S2044	ML230 Bundle 6 - (1xCHS-200/19", 1xSDU-450G, 1xMLU-32DR, 1x blank panel, 1x -48VDC PWR&GND)	\$12,367.00	24 Months
IPI-TH4B7501S2044	ML230 Bundle 7 - (1xCHS-200/19", 1xSDU-450G, 1xMLU-64DF, 1x blank panel, 1x -48VDC PWR&GND)	\$14,239.00	24 Months
IPI-TH6B8501S2045	ML230 Bundle 8 - (1xCHS-200/19", 1xSDU-450G, 1xMLU-64DR, 1x blank panel, 1x -48VDC PWR&GND)	\$14,239.00	24 Months
IPI-TH4B1501S2045	ML2300 Bundle 1 - (1xCHS-2000/ETSI, 1xSDU-450, 1xMLU-32DF, 4x blank panel)	\$13,129.00	24 Months
IPI-TH3B2501S2045	ML2300 Bundle 2 - (1xCHS-2000/ETSI, 1xSDU-450, 1xMLU-64DF, 4x blank panel)	\$15,001.00	24 Months
IPI-TH8B3501S2044	ML2300 Bundle 3 - (1xCHS-2000B/19", 1xSDU-450, 1xMLU-32DF, 4x blank panel)	\$12,829.00	24 Months
IPI-TH9B4501S2044	ML2300 Bundle 4 - (1xCHS-2000B/19", 1xSDU-450, 1xMLU-64DF, 4x blank panel)	\$12,829.00	24 Months
IPI-TH7B5501S2044	ML2300 Bundle 5 - (1xCHS-2000/19", 1xSDU-450, 1xMLU-32EF, 4x blank panel)	\$14,701.00	24 Months
IPI-TH5B6501S2043	ML2300 Bundle 6 - (1xCHS-2000B/19", 1xSDU-450, 1xMLU-64DR, 4x blank panel)	\$14,701.00	24 Months
IPI-TH1B7501S2045	ML2300 Bundle 7 - (1xCHS-2000B/19", 1xSDU-450G, 1xMLU-32DF, 4x blank panel)	\$13,580.00	24 Months
IPI-TH2B8501S2045	ML2300 Bundle 8 - (1xCHS-2000B/19", 1xSDU-450G, 1xMLU-32DR, 4x blank panel)	\$13,580.00	24 Months
IPI-TH0B9501S2045	ML2300 Bundle 9 - (1xCHS-2000B/19", 1xSDU-450G, 1xMLU-64DF, 4x blank panel)	\$15,336.00	24 Months
IPI-THB105501S2045	ML2300 Bundle 10 - (1xCHS-2000B/19", 1xSDU-450G, 1xMLU-64DR, 4x blank panel)	\$15,452.00	24 Months
IPI-TH820506R04	Newmar -48VDC Unity Fuse Panel - 1 Required	\$198.00	12 Months
IPI-TH815506R04	Newmar -48VDC Unity rectifier - 2 Required, 3 can be used for additional load capacity	\$315.00	12 Months
IPI-TH810502R04	Newmar -48VDC Unity rectifier shelf - 1 Required	\$208.00	12 Months
IPI-TH830506R04	Newmar Battery Module	\$319.00	12 Months
IPI-TH825502R04	Newmar Battery module shelf	\$213.00	12 Months



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PRODUCT CODE	DESCRIPTION	GSA PRICE	HARDWARE WARRANTY
IPI-SVC-EXTHW1	IPI Customized Extended Factory Repair and Return HW Warranty, per year - Extends Standard HW Warranty Term for 1 year beyond initial 2 Year Warranty	8% of List Price, per year	
IPI-SVC-FSTHW3	IPI Customized Fast Exchange Hardware Warranty, per year - Repair and Return of hardware within 10 days after receipt of the product at an authorized Actelis location	8% of List Price per year	
IPI-SVC-REM1YR	IPI Customized Telephone assistance, per year - Remote 5x9 Telephone Assistance based on PST (excludes Actelis holidays)	8% of List Price per year	
IPI-SVC-REM247	IPI Customized Upgrade to 24x7 Telephone Assistance during Warranty Period, per year - Upgrade the standard 2 year warranty to remote 24x7 Telephone Assistance, 365 days/year	8% of List Price per year	
IPI-SVC-ADVREP	IPI Customized Advanced Hardware Replacement Service, per year - Next Business Day shipment of replacement parts	10% of List Price per year	
IPI-SVC-GOLD	IPI Customized GOLD SUPPORT, per year - TAC Support: 24 hours per day, 365 days per year HW Support: Factory Repair & Return - 10 day turnaround SW Support: Automatic notification and supply of software updates and feature release upgrades	12% of List Price per year	
IPI-SVC-PLAT	IPI Customized PLATINUM SUPPORT, per year - TAC Support: 24h per day, 365 days per year HW Support: Advanced HW Replacement Service SW Support: Automatic notification and supply of software updates and feature release upgrades	18% of List Price per year	
IPI-SVC-ONSINS	IPI Customized On Site Installation is a service to set up, connect and make the IPI-provided EFM broadband system operational. Includes physical mounting of EFM hardware, EFM cabling and software installation. Priced per job and is included in an IPI Statement of Work (SOW).	CALL IPI	
IPI-TRN-ACT	IPI Customized Two-day training course. Provides student with details on set-up and operation of EFM broadband system. Course conducted at IPI facility. Priced per student	\$2,500.00	
IPI-TRN-ACTCUS	IPI Customized Two-day training course. Provides student with details on set-up and operation of IEFM broadband system. Course conducted at customer facility. Priced per site with maximum of 8 students. (Instructor travel expenses not included) Requires 14 day advanced notice	\$6,000.00	



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PRODUCT CODE	DESCRIPTION	GSA PRICE	HARDWARE WARRANTY
Mobile Video Trailers - IP Ready – Outdoor Color HD Systems and Accessories			
IPI-MVT-3001-1CSP-OR	CCTV HEAVY DUTY SURVEILLANCE TRAILER WITH ONE CAMERA & ONBOARD RECORDER (SOLAR POWERED) - Enclosed hybrid powered trailer system with (1) PTZ HD camera, onboard storage including Video Management Software and a 960 Watt solar array.	\$34,469.00	12 Months
IPI-MVT-3001-2CSP-OR	CCTV HEAVY DUTY SURVEILLANCE TRAILER WITH TWO CAMERAS & ONBOARD RECORDER (SOLAR POWERED) - Enclosed hybrid powered trailer system with (2) PTZ HD cameras, onboard storage including Video Management Software and 960 Watt solar array.	\$35,932.00	12 Months
IPI-MVT-3001-3CSP-OR	CCTV HEAVY DUTY SURVEILLANCE TRAILER WITH THREE CAMERAS & ONBOARD RECORDER (SOLAR POWERED) - Enclosed hybrid powered trailer system with (3) PTZ HD cameras, onboard storage including Video Management Software and 960 Watt solar array.	\$37,394.00	12 Months
IPI-MVT-3001-4CSP-OR	CCTV HEAVY DUTY SURVEILLANCE TRAILER WITH FOUR CAMERAS & ONBOARD RECORDER (SOLAR POWERED) - Enclosed hybrid powered trailer system with (4) PTZ HD cameras, onboard storage including Video Management Software and 960 Watt solar array.	\$38,857.00	12 Months
IPI-MVT-3001-1CSP-CR	CCTV HEAVY DUTY SURVEILLANCE TRAILER WITH ONE CAMERA & 3G/4G/LTE CELLULAR ROUTER (SOLAR POWERED) - Enclosed hybrid powered trailer system with (1) PTZ HD camera, cellular router and 960 Watt solar array.	\$33,094.00	12 Months
IPI-MVT-3001-2CSP-CR	CCTV HEAVY DUTY SURVEILLANCE TRAILER WITH TWO CAMERAS & 3G/4G/LTE CELLULAR ROUTER (SOLAR POWERED) - Enclosed hybrid powered trailer system with (2) PTZ HD cameras, cellular router and 960 Watt solar array.	\$34,557.00	12 Months
IPI-MVT-3001-3CSP-CR	CCTV HEAVY DUTY SURVEILLANCE TRAILER WITH THREE CAMERAS & 3G/4G/LTE CELLULAR ROUTER (SOLAR POWERED) - Enclosed hybrid powered trailer system with (3) PTZ HD cameras, cellular router and 960 Watt solar array.	\$36,019.00	12 Months
IPI-MVT-3001-4CSP-CR	CCTV HEAVY DUTY SURVEILLANCE TRAILER WITH FOUR CAMERAS & 3G/4G/LTE CELLULAR ROUTER (SOLAR POWERED) - Enclosed hybrid powered trailer system with (4) PTZ HD cameras, cellular router and 960 Watt solar array.	\$37,482.00	12 Months



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PRODUCT CODE	DESCRIPTION	GSA PRICE	HARDWARE WARRANTY
IPI-MVT-3002-1CSP-OR	CCTV LIGHT DUTY SURVEILLANCE TRAILER WITH ONE CAMERA & ONBOARD RECORDER (SOLAR POWERED) - Enclosed hybrid powered trailer system with (1) PTZ HD camera, onboard storage including Video Management Software and 960 Watt solar array.	\$21,856.00	12 Months
IPI-MVT-3002-2CSP-OR	CCTV LIGHT DUTY SURVEILLANCE TRAILER WITH TWO CAMERAS & ONBOARD RECORDER (SOLAR POWERED) - Enclosed hybrid powered trailer system with (2) PTZ HD cameras, onboard storage including Video Management Software and 960 Watt solar array.	\$23,320.00	12 Months
IPI-MVT-3002-1CSP-CR	CCTV LIGHT DUTY SURVEILLANCE TRAILER WITH ONE CAMERA & 3G/4G/LTE CELLULAR ROUTER (SOLAR POWERED) - Enclosed hybrid powered trailer system with (1) PTZ HD camera, cellular router and 960 Watt solar array.	\$20,481.00	12 Months
IPI-MVT-3002-2CSP-CR	CCTV LIGHT DUTY SURVEILLANCE TRAILER WITH TWO CAMERAS & 3G/4G/LTE CELLULAR ROUTER (SOLAR POWERED) - Enclosed hybrid powered trailer system with (2) PTZ HD cameras, cellular router and 960 Watt solar array.	\$21,944.00	12 Months
IPI-MVT-3001-1CGP-OR	CCTV HEAVY DUTY SURVEILLANCE TRAILER WITH ONE CAMERA & ONBOARD RECORDER (GAS POWERED) - Enclosed hybrid powered trailer system with (1) PTZ HD camera, onboard storage including Video Management Software and Gasoline generator including microprocessor control with diagnostics.	\$41,709.00	12 Months
IPI-MVT-3001-2CGP-OR	CCTV HEAVY DUTY SURVEILLANCE TRAILER WITH TWO CAMERAS & ONBOARD RECORDER (GAS POWERED) - Enclosed hybrid powered trailer system with (2) PTZ HD cameras, onboard storage including Video Management Software and Gasoline generator including microprocessor control with diagnostics.	\$43,171.00	12 Months
IPI-MVT-3001-3CGP-OR	CCTV HEAVY DUTY SURVEILLANCE TRAILER WITH THREE CAMERAS & ONBOARD RECORDER (GAS POWERED) - Enclosed hybrid powered trailer system with (3) PTZ HD cameras, onboard storage including Video Management Software and Gasoline generator including microprocessor control with diagnostics.	\$44,634.00	12 Months
IPI-MVT-3001-4CGP-OR	CCTV HEAVY DUTY SURVEILLANCE TRAILER WITH FOUR CAMERAS & ONBOARD RECORDER (GAS POWERED) - Enclosed hybrid powered trailer system with (4) PTZ HD cameras, onboard storage including Video Management Software and Gasoline generator including microprocessor control with diagnostics.	\$46,096.00	12 Months



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PRODUCT CODE	DESCRIPTION	GSA PRICE	HARDWARE WARRANTY
IPI-MVT-3001-1CGP-CR	CCTV HEAVY DUTY SURVEILLANCE TRAILER WITH ONE CAMERA & 3G/4G/LTE CELLULAR ROUTER (GAS POWERED) - Enclosed hybrid powered trailer system with (1) PTZ HD camera, cellular router and Gasoline generator including microprocessor control with diagnostics.	\$40,334.00	12 Months
IPI-MVT-3001-2CGP-CR	CCTV HEAVY DUTY SURVEILLANCE TRAILER WITH TWO CAMERAS & 3G/4G/LTE CELLULAR ROUTER (GAS POWERED) - Enclosed hybrid powered trailer system with (2) PTZ HD cameras, cellular router and Gasoline generator including microprocessor control with diagnostics.	\$41,796.00	12 Months
IPI-MVT-3001-3CGP-CR	CCTV HEAVY DUTY SURVEILLANCE TRAILER WITH THREE CAMERAS & 3G/4G/LTE CELLULAR ROUTER (GAS POWERED) - Enclosed hybrid powered trailer system with (3) PTZ HD cameras, cellular router and Gasoline generator including microprocessor control with diagnostics.	\$43,259.00	12 Months
IPI-MVT-3001-4CGP-CR	CCTV HEAVY DUTY SURVEILLANCE TRAILER WITH FOUR CAMERAS & 3G/4G/LTE CELLULAR ROUTER (GAS POWERED) - Enclosed hybrid powered trailer system with (4) PTZ HD cameras, cellular router and Gasoline generator including microprocessor control with diagnostics.	\$44,721.00	12 Months
IPI-MVT-3002-1CGP-OR	CCTV LIGHT DUTY SURVEILLANCE TRAILER WITH ONE CAMERA & ONBOARD RECORDER (GAS POWERED) - Enclosed hybrid powered trailer system with (1) PTZ HD camera, onboard storage including Video Management Software and Gasoline generator including microprocessor control with diagnostics.	\$29,096.00	12 Months
IPI-MVT-3002-2CGP-OR	CCTV LIGHT DUTY SURVEILLANCE TRAILER WITH TWO CAMERAS & ONBOARD RECORDER (GAS POWERED) - Enclosed hybrid powered trailer system with (2) PTZ HD cameras, onboard storage including Video Management Software and Gasoline generator including microprocessor control with diagnostics.	\$30,558.00	12 Months
IPI-MVT-3002-1CGP-CR	CCTV LIGHT DUTY SURVEILLANCE TRAILER WITH ONE CAMERA & 3G/4G/LTE CELLULAR ROUTER (GAS POWERED) - Enclosed hybrid powered trailer system with (1) PTZ HD camera, cellular router and Gasoline generator including microprocessor control with diagnostics.	\$27,721.00	12 Months



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IPI-MVT-3002-2CGP-CR	CCTV LIGHT DUTY SURVEILLANCE TRAILER WITH TWO CAMERAS & 3G/4G/LTE CELLULAR ROUTER (GAS POWERED) - Enclosed hybrid powered trailer system with (2) PTZ HD cameras, cellular router and Gasoline generator including microprocessor control with diagnostics.	\$29,183.00	12 Months
IPI-MVT-3001-1CSP-ORCR	CCTV HEAVY DUTY SURVEILLANCE TRAILER WITH ONE CAMERA & ONBOARD RECORDER & 3G/4G/LTE CELLULAR ROUTER (SOLAR POWERED) - Enclosed hybrid powered trailer system with (1) PTZ HD camera, onboard storage including Video Management Software, cellular router and 960 Watt solar array.	\$36,299.00	12 Months
IPI-MVT-3001-2CSP-ORCR	CCTV HEAVY DUTY SURVEILLANCE TRAILER WITH TWO CAMERAS & ONBOARD RECORDER & 3G/4G/LTE CELLULAR ROUTER (SOLAR POWERED) - Enclosed hybrid powered trailer system with (2) PTZ HD cameras, onboard storage including Video Management Software, cellular router and 960 Watt solar array.	\$37,761.00	12 Months
IPI-MVT-3001-1CGP-ORCR	CCTV HEAVY DUTY SURVEILLANCE TRAILER WITH ONE CAMERA & ONBOARD RECORDER & 3G/4G/LTE CELLULAR ROUTER (GAS POWERED) - Enclosed hybrid powered trailer system with (1) PTZ HD camera, onboard storage including Video Management Software, cellular router and Gasoline generator including microprocessor control with diagnostics.	\$43,538.00	12 Months
IPI-MVT-3001-2CGP-ORCR	CCTV HEAVY DUTY SURVEILLANCE TRAILER WITH TWO CAMERAS & ONBOARD RECORDER & 3G/4G/LTE CELLULAR ROUTER (GAS POWERED) - Enclosed hybrid powered trailer system with (2) PTZ HD cameras, onboard storage including Video Management Software, cellular router and Gasoline generator including microprocessor control with diagnostics.	\$45,001.00	12 Months



IPI GSA PRICE LIST – INDUSTRIAL VIDEO & CONTROL
GSA SCHEDULE No: GS-35F-0740P
EFFECTIVE DATE: OCTOBER 2019

IP Integration, Inc.
 PO Box 28617
 Santa Ana, CA 92799
 Phone: (714) 557-5200

PRODUCT CODE	DESCRIPTION	GSA PRICE	HARDWARE WARRANTY
Hazardous Area Cameras			
IPI-AMZ-3041-2	Color analog camera. Housed in a heavy-duty cast aluminum weatherproof housing with an automatic heater and blower that is certified for Class 1 Division 1, groups B through D. (Lens purchased separately)	\$1,991.00	12 Months
IPI-AMZ-HD41-2-S	Color analog camera. Housed in a heavy-duty stainless steel weatherproof housing with an automatic heater and blower that is certified for Class 1 Division 1, groups B through D. (Lens purchased separately)	\$2,690.00	12 Months
IPI-AMZ-HD41-2	Color 1080p HD camera. 3 to 9 mm motorized zoom lens. Housed in a heavy-duty cast aluminum weatherproof housing with an automatic heater and blower that is certified for Class 1 Division 1, groups B through D.	\$2,091.00	12 Months
IPI-APTZ-3045-04	Color analog camera with 36x optical zoom. Automatic focus, auto iris, and low-light function. Housed in a heavy-duty stainless steel weatherproof enclosure. Certified by Factory Mutual for Class 1 Division 1, groups B, C, and D.	\$13,960.00	12 Months
IPI-APTZ-3045-07	Color HD camera with 30x optical zoom. Automatic focus, auto iris, and low-light function. Housed in a heavy-duty stainless steel weatherproof enclosure. Certified by Factory Mutual for Class 1 Division 1, groups B, C, and D.	\$14,958.00	12 Months
High Definition Pan-Tilt-Zoom – IP Ready – Color Cameras			
IPI-PTZ-HD30-18-30POEt	PAN-TILT-ZOOM VIDEO CAMERA - HD Color IP Pan/Tilt/Zoom Camera with 30x Optical Zoom and Starlight technology. IR distance of 150m. 1080p resolution. Camera is housed in an IP66 rated dome. PoE (injector included).	\$1,629.00	12 Months
IPI-PTZ-HD30-18	PAN-TILT-ZOOM VIDEO CAMERA - HD Color IP Pan/Tilt/Zoom Camera with 40x Optical Zoom. Integrated IR illuminators with a distance of 200m. 1080p resolution. Camera is housed in an IP66 rated dome. PoE (injector included).	\$2,082.00	12 Months



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PRODUCT CODE	DESCRIPTION	GSA PRICE	HARDWARE WARRANTY
Stationary – IP Ready – Indoor/Outdoor – Color Cameras			
IPI-MZ-HD32-10-MIL	FIXED BULLET HD Color IP Camera with 1080p resolution. IP ready. Auto iris. MJPEG, H.264. Includes a motorized 3 - 9mm zoom lens. IP66. Suitable for indoor or outdoor use. IEEE802.3af compliant POE, 12 VDC.	\$622.00	12 Months
IPI-MZ-HD32-10	FIXED BULLET HD Color IP Camera with 1080p resolution. IP ready. Auto iris. MJPEG, H.264. Includes a motorized 3 - 9mm zoom lens. IP66. Suitable for indoor or outdoor use. IEEE802.3af compliant POE, 12 VDC.	\$531.00	12 Months
IPI-MZ-HD30-8-MIL	LOW LIGHT DOME CAMERA- Color 1080p HD mini dome fixed camera. 4x motorized optical zoom. Direct IP Connection. Integrated IR illuminators with 20m range. IP66 IK10-rated enclosure. H.264, MJPEG. PoE, 12VDC	\$499.00	12 Months
IPI-MZ-HD30-8	LOW LIGHT DOME CAMERA- Color 1080p HD mini dome fixed camera. 3x motorized optical zoom. Direct IP Connection. Integrated IR illuminators with 40m range. IP66 IK10-rated enclosure. H.264, MJPEG. PoE, 12VDC, 24VAC	\$504.00	12 Months
Thermal – IP Ready – Cameras			
IPI-FV-3532-6-7-POEt	High Resolution Thermal IP-camera housed in a rugged outdoor enclosure. 35mm lens included. IP and analog connectivity (NTSC). M-JPEG, H.264 video at 30 FPS. Copper (RJ-45). 12-24 VDC/ 24 VAC/ IEEE 802.3af compliant PoE	\$9,064.00	12 Months
IPI-FV-3543-1-7-POEu	Thermal imager in IP-67 rated tube designed to detect hydrocarbons. Sun shield and mount arm included. PoE (High-power injector included)	\$9,971.00	12 Months
IPI-PTZ-3532-1-1305024A	PAN-TILT OUTDOOR THERMAL/VIDEO CAMERA - Dual imaging PTZ camera. Thermal & Digital video camera mounted on precision pan-tilt base. High resolution thermal camera with 50mm lens. 1080p HD optical camera with 30x zoom. IP ready. 30 FPS. MJPEG, H.264.110 VAC.	\$19,038.00	12 Months
IPI-PTZ-3539-1-3035AC	Thermal imager in IP-67 rated tube designed to detect hydrocarbons. Sun shield and mount arm included. PoE (High-power injector included)	\$27,199.00	12 Months



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PRODUCT CODE	DESCRIPTION	GSA PRICE	HARDWARE WARRANTY
Video Relay Servers Note: Contact IPI for customized server requirements (Processor, Storage, Redundancy, Rack Mount, Maintenance)			
IPI-THVRS-4004	4 Camera Video Relay Server - IPI Customized Tower or Rack Mount Server – Fully Redundant Hard Drives (RAID 1) Intel E3-1200v5 Xeon Server. 8GB DDR. 2TB HDD. MS Windows Server 2016 R2	\$4,280.00	12 Months
IPI-THVRS-4008	8 Camera Video Relay Server - IPI Customized Tower or Rack Mount Server – Fully Redundant Hard Drives (RAID 1) Intel E3-1200v5 Xeon Server. 8GB DDR. 4TB HDD. MS Windows Server 2016 R2	\$5,376.00	12 Months
IPI-THVRS-40016	16 Camera Video Relay Server - IPI Customized Tower or Rack Mount Server – Fully Redundant Hard Drives (RAID 5) Intel Xeon E5-2603v4. 8GB RAM. 12TB HDD. MS Windows Server 2016 R2	\$6,506.00	12 Months
IPI-THVRS-40024	24 Camera Video Relay Server - IPI Customized Tower or Rack Mount Server – Fully Redundant Hard Drives (RAID 5) Intel Xeon E5-2603v4. 8GB RAM. 18TB HDD. MS Windows Server 2016 R2	\$7,585.00	12 Months
View Station Workstation Note: Contact IPI for customized workstation requirements			
IPI-THVSC-4300-01	Tower or Rack Mount Workstation - IPI Customized D1540L2 Xeon 2.6G 2LAN. 4GB RAM. 2TB HDD. Nvidia Geforce GT710 1G 4K Graphics HDMI+DVI+VGA. Two network interfaces. Keyboard and mouse. MS Windows 10 Professional 64Bit	\$3,519.00	12 Months
Relay Server Software			
IPI-THRSS-4001	1 Camera Relay Server Software Provides browser access to live and stored Video, snapshots, preset and panoramic camera control for one IVC IP camera.	\$465.00	90 Days
IPI-THRSS-4004	4 Camera Relay Server Software Provides browser access to live and stored Video, snapshots, preset and panoramic camera control for four IVC IP cameras.	\$1,215.00	90 Days



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PRODUCT CODE	DESCRIPTION	GSA PRICE	HARDWARE WARRANTY
IPI-THRSS-4008	8 Camera Relay Server Software Provides browser access to live and stored Video, snapshots, preset and panoramic camera control for eight IVC IP cameras.	\$2,152.00	90 Days
IPI-THRSS-4016	16 Camera Relay Server Software Provides browser access to live and stored Video, snapshots, preset and panoramic camera control for sixteen IVC IP camera.	\$3,744.00	90 Days
IPI-THRSS-4024	24 Camera Relay Server Software Provides browser access to live and stored Video, snapshots, preset and panoramic camera control for twenty-four IVC IP cameras.	\$4,681.00	90 Days
View Station Software			
IPI-THVSS-4004	4 Camera View Station Software Provides View Station display of up to four cameras, camera touring, alarm management, and sequential camera views	\$933.00	90 Days
IPI-THVSS-4008	8 Camera View Station Software Provides View Station display of up to eight cameras, camera touring, alarm management, and sequential camera views	\$1,496.00	90 Days
IPI-THVSS-4016	16 Camera View Station Software Provides View Station display of up to sixteen cameras, camera touring, alarm management, and sequential camera views	\$2,339.00	90 Days
IPI-THVSS-4024	24 Camera View Station Software Provides View Station display of up to twenty-four cameras, camera touring, alarm management, and sequential camera views	\$3,276.00	90 Days
IPI-THVSS-4099	99 Camera View Station Software Provides View Station display of up to ninety-nine cameras, camera touring, alarm management, and sequential camera views	\$6,555.00	90 Days



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PRODUCT CODE	DESCRIPTION	GSA PRICE	HARDWARE WARRANTY
Equipment Install, Deinstallation, Reinstallation - Training			
IPI-THTR-1001-01	One-day training course. Provides student with details on set-up and operation of IVC Relay Server Software. Course conducted at IVC facility. Priced per student.	\$1,490.00	
IPI-THTR-1001-02	One-day training course. Provides student with details on set-up and operation of IVC Relay Server Software. Course conducted at customer facility. Priced per site with maximum of 8 students. Instructor travel expenses not included.	\$3,970.00	
IPI-THTR-1001-03	One-day training course. Provides student with details on set-up and operation of IVC Relay Server Software. Course conducted via Internet. Priced per session.	\$1,478.00	
IPI-TRN-IVC	Two-day training course. Provides student with details on set-up and operation of IVC View Station Software. Course conducted at IVC facility. Priced per student.	\$985.00	
IPI-TRN-IVCCUS	Two-day training course. Provides student with details on set-up and operation of IVC View Station Software. Course conducted at customer facility. Priced per site with maximum of 8 students. Instructor travel expenses not included.	\$6,403.00	
IPI-THTR-1002-03	Two-day training course. Provides student with details on set-up and operation of IVC View Station Software. Course conducted via Internet. Priced per session.	\$2,955.00	
Equipment Install, Deinstallation, Reinstallation - Warranty and Support			
IPI-THEW-1002	Extended Warranty for 2nd year	12% of List Price, per year	
IPI-THEW-1003	Extended Warranty for 3rd year	13.5% of List Price, per year	
IPI-THEW-1004	Extended Warranty for 4th year	15% of List Price, per year	
IPI-THSVCSUP-10RS	One-year end-user support subscription for IVC Relay Server Software. Includes 10 hours telephone support, unlimited email and web support, access to IVC support web site, Relay Server updates and upgrades.	\$1,995.00	



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PRODUCT CODE	DESCRIPTION	GSA PRICE	HARDWARE WARRANTY
IPI-THSVCSUP-30RS	One-year end-user support subscription for IVC Relay Server and View Station Software. Includes 30 hours telephone support, unlimited email and web support, access to IVC support web site, Relay Server and View Station updates and upgrades.	\$4,800.00	
IPI-THSVCSUP-HR	Hourly end-user out-of-warranty telephone support for IVC Relay Server software and View Station software. Hourly rate is applicable for any fraction of an hour. Does not include any software upgrade charges.	\$175 per hour	
IPI-THSVC-INSTALL-OS	Provides on-site assistance with the final set-up and configuration of the video system hardware and software. Includes physical mounting of cameras, cabling, or other equipment installation, or network installation, or troubleshooting. Priced per-day. Travel and Expenses are not included	\$1800 per day	
IPI-THSVC-INSTALL	On Site Installation is a service to set up, connect and make the IPI-provided video system operational. Includes physical mounting of cameras, cabling, video relay server and software. Priced per job and is included in the IPI Statement of Work (SOW).	CALL IPI	
IPI-THSVC-SUPPORT	On Site Support is an annual service contract to maintain or troubleshoot and repair the IPI-provided video system. Includes on site support of the IPI-provided video system and can be customized to match user support requirements. Priced per job and is included in the IPI Statement of Work (SOW).	CALL IPI	



IPI SAMPLE INVOICE
GSA SCHEDULE No: GS-35F-0740P
EFFECTIVE DATE: OCTOBER 2019

IP Integration, Inc.
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 Santa Ana, CA 92799
 Phone: (714) 557-5200



INVOICE

Invoice Number : IPI 860-CC

Invoice Date : 12/21/2018

Invoice Due Date : 12/21/2018

Bill To :

**FAA / El Segundo, CA
 777 S. Aviation Blvd.
 Suite 150
 El Segundo, CA 90245
 Attn: Esmeraldo Talastas**

Ship To :

**FAA Hilo Air Traffic Control Tower
 1 General Lyman Field
 Hilo, HI 96720
 Attn: Michael Datuin 808-372-7586**

Purchase Order		Terms	PROJECT	FOB	
HILO-CTD		Credit Card	FAA - Hilo, HI	Memphis, TN	
Item	Part No.	Qty	Description	Unit Price	Extended
1	IPI-TH046501RG0	4	ML624 - ROHS6 4 pairs, 4x10/100BaseT +1 SFP for 100Base-FX, standard QoS, ROHS-6 compliant	1,046.50	4,186.00
2	IPI-TH006506R00	4	AC-DC Adapter for ML624	71.25	285.00
3	IPI-TH070510R21	2	Rack Mount Kit for two ML600 units Supports 2 x ML500/ML600/ML700	109.30	218.60
4	IPI-FREIGHT	1	Estimated Freight Charges: Millington, TN to Hilo, HI UPS Ground Service	138.60	138.60
***** ** GSA ORDER ** ** GS-35F-0740P ** ** HILO-CTD ** ***** ~~~~~ FOR ANY QUESTIONS PLEASE CONTACT IPI TOM HURLEY 714-557-5200 THANK YOU FOR YOUR BUSINESS ~~~~~					

- We value our business relationship with the FAA -

Sales Tax (0.0%) \$0.00

**Please Send Payment To:
 IP Integration, Inc.
 PO Box 28617
 Santa Ana, CA 92799-8617**

Total : \$4,828.20

**EFT Information:
 Bank: Wells Fargo
 Bank Account Number: 9286332367
 Bank Account Name: IP Integration, Inc.
 ABA Routing Number: 122000247**



IPI SAMPLE INVOICE
GSA SCHEDULE No: GS-35F-0740P
EFFECTIVE DATE: OCTOBER 2019

IP Integration, Inc.
 PO Box 28617
 Santa Ana, CA 92799
 Phone: (714) 557-5200



INVOICE

Invoice Number : IPI 896-CC

Invoice Date : 7/29/2019

Invoice Due Date : 7/29/2019

Bill To :

FAA Staging Area
210 South Geospace Drive
Independence, MO 64056
Attn: Jason Hasenohr
816-329-3975

Ship To :

FAA Staging Area
210 South Geospace Drive
Independence, MO 64056
Attn: CTD Systems PA29 EUG-MC/1
816-329-3975

Purchase Order		Terms	PROJECT	FOB	
OF19-1010-1		Credit Card	FAA - Staging Area	Destination	
Item	Part No.	Qty	Description	Unit Price	Extended
1	IPI-TH046501RG0	4	ML624 - ROHS6 4 pairs, 4x10/100BaseT +1 SFP for 100Base-FX, standard QoS, ROHS-6 compliant NOTE: SFP ordered separately	1,046.50	4,186.00
2	IPI-TH006506R00	4	AC-DC Adapter for ML624	71.25	285.00
3	IPI-TH070510R21	2	Rack Mount Kit for two ML600 units Supports 2 x ML500/ML600/ML700	109.30	218.60
***** ** GSA ORDER ** ** GS-35F-0740P ** ** OF19-1010-1 ** ***** ~~~~~ FOR ANY QUESTIONS PLEASE CONTACT IPI TOM HURLEY 714-557-5200 THANK YOU FOR YOUR BUSINESS ~~~~~					

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Sales Tax (0.0%) \$0.00

Please Send Payment To:
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PO Box 28617
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Total : \$4,689.60

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IPIntegration, Inc.
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PRODUCT LITERATURE – INDUSTRIAL VIDEO & CONTROL
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IVC MobileVision Products

MVT-3001

- Customizable mobile surveillance platform
- Solar or engine powered
- Large battery backup
- Operates in extreme environments
- Remotely monitored and controlled
- 24/7 unattended operation
- Wide track trailer for maximum stability
- Multiple camera options

Choose from our standard options or have IVC customize a solution that exactly meets your mobile surveillance needs.





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► MVT-3001 Trailer Specifications

Trailer Dimensions	
Width	1781mm/5' 8"
Length	4040mm/13'2"
Height	3048mm/10'
Weight	1270Kg/2800lbs
Camera / Equipment Box	Mounted at top of mast Temperature Controlled Fan CAT6 & 1.5mm/2 Electric Cables
Trailer Details	
Axle	A/T single axle
Mast Raise/Extension	12VDC Electric winch
Mast height	25ft Mast
Wind Rating Speed	100kph
Lighting Package	USDOT-approved
Anti-theft Measures	Locking compartments & wheel locks
Battery	
Batteries	6 x 150AH
Capacity	900AH
Voltage	DC 12V
Material	Colloid
Supplied Voltage	24V

IVC surveillance trailers are well-suited for use in a variety of security & monitoring applications.



Remote Construction Monitoring



Emergency Management



Public Safety/Event Management



Homeland Security/Crime Prevention



Remote Facilities Monitoring

► MVT-3001 Standard Options

Power plant

- 960 watt solar array
- Combustion engine
- 100 - 240 VAC
- Storage battery array

Cameras

- 1 - 5 camera configurations
- 30x HD PTZs with or without integrated illumination
- HD fixed cameras
- Standard and radiometric thermal cameras
- LPR (license plate recognition) cameras

Local audio/visual alarm indicators

Local NVR for video storage and management

Wireless connectivity

- 4G LTE cellular w/WiFi
- 2.4GHz, 5GHz, 900MHz radio

2-way audio

IP Integration, Inc

CCTV SPECIALISTS - MILITARY

GSA Contract - August 2019

Tom Hurley 714.557.5200 thurley@ipi-1.com



MADE IN THE USA

330 Nevada St., Newton, MA 02460 www.ivcco.com 617-467-3059

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IVC MobileVision Products

MVT-3002

- 600 Watt Solar Panel
- Lightweight Design, Easily Towed
- Operates in extreme environments
- Remotely monitored and controlled
- 24/7 unattended operation
- Edge Recording / Storage
- Optional alarm strobe light
- HD PTZ IP Camera





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▶ Lightweight Surveillance Trailer Specifications

Tower Dimensions	
Width	1200mm/3' 11"
Length	3400mm/11' 1"
Height	2975mm/9' 9"
Camera / Equipment Box	Mounted at top of mast Temperature Controlled Fan
Trailer Details	
Axle	A/T single axle
Mast Raise/Extension	Manual winch
Mast height	20ft Mast
Wind Rating Speed	100kph
Solar System	
No. of Solar Panel	2 x 300W
Panel Wattage/Output	600W
Panel Material	Monocrystal Silicon
Controller	Maximum Power Point Tracking (MPPT)
Battery	
No. of Battery	2 x 200AH
Capacity	400AH
Voltage	DC 12V
Material	Colloid
Supplied Voltage	24V
PTZ Camera	
Effective Pixels	1920 x1080 (HDTV 1080p)
Focal Length	30x optical zoom
Compression	M-JPEG, H.264
Minimum Illumination	Color: 0.05 Lux@F1.6 B/W: 0.005 Lux@F1.6
Edge Storage	Micro SD, Max 64GB
Recording	Edge software records video data on SD Card

▶ ordering information

MVT-3002

The base model described here can be customized to suit your application needs.

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Rugged Outdoor Dual Imaging IP Camera

PTZ-3532-1

- Dual imaging camera for security monitoring
- High-resolution thermal camera
- 1080p HD camera with 30x optical zoom
- Remote pan/tilt/zoom controls



Precise object detection in any lighting conditions

The PTZ-3532-1 network camera is a full-spectrum camera solution designed by Industrial Video & Control. It includes a thermal imager for viewing in poor lighting conditions. The high contrast thermal imager enables the user to readily identify objects in both direct sunlight and absolute darkness. A variety of lens options are available to suit most applications.

For detailed visual confirmation, the camera also includes a 1080p HD camera. The camera has a 30x

optical zoom that, along with the pan/tilt unit, can be remotely and precisely controlled using IVC's camera management software.

Mounted on a robust pan/tilt unit, the PTZ-3532-1 camera is capable of precise positioning and rapid movement over a 360° arc of view. The camera is ready for mounting and only requires power and a network connection.



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► specifications

THERMAL IMAGER

Focal Plane Array	640 x 480 microbolometer
Spectral Range	8-14 µm LWIR
Pitch	17 µm
Focal Length	See lens options
Field of View	See lens options
Resolution	640 x 480
NETD	<50 mK

OPTICAL IMAGER

Imager	1/2.9" Sony CMOS
Resolution	1920 x 1080
Minimum Illumination	Color: 0.1 Lux B/W: 0.05 Lux
Shutter Speed	1/10000 to 1/25 seconds
Zoom	30x
Focal Length	4.3mm to 129mm
Field of View	58.9° to 2.11°

GENERAL

Frame Rate	30 FPS VISUAL, 30/9 FPS THERMAL
Compression	MJPEG, H.264
Network	10/100 Mbps Ethernet (RJ-45)
Protocols	TCP/IP, HTTP, FTP, SMTP
I/O	1 Input/1 Output
Pan Angle	360°
Pan Speed	40° Per Second
Tilt Angle	-80° to 33°
Tilt Speed	20° Per Second
Voltage Required	24 VAC , 110 VAC
Power Consumption	70W max.
Operating Temperature	-29° - 50°C
Weight	20 lbs.
Dimensions	16.1"H x 13.5"D x 7.1"W
Mount	Pedestal
Protection Class	IP66

► features



Thermal imager provides reliable surveillance in complete darkness, over water, fog, snow and rain



1080p high-definition broadcast quality video



Rated IP66 for use in all weather conditions

► ordering information

PTZ-3532-1-FnCLV

V	Voltage Required	
24A	24 VAC	
110 A	110 VAC	
L	Thermal Lens	HFOV
9	9 mm	70°
16	16.7 mm	37.5°
35	35 mm	17.6°
50	50 mm	12.4°
C	Optical Camera	
30	30x HD	
-Fn	Connection	
1	100BASE-T (RJ-45)	

► IVC camera management software

Point & click camera management & control

Robust, enterprise class software to manage and control your cameras and video from anywhere in the world.



IP Integration, Inc
CCTV SPECIALISTS - MILITARY

GSA Contract - August 2019

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Pan/Tilt/Zoom HD Color Camera **PTZ-HD30-18**



- 1080p HD video with 30x optical zoom
- Suitable for harsh weather environments & indoor applications
- H.264, MJPEG multi-streaming
- Excellent low-light performance
- Integrated IR illuminators
- PoE

Rugged 1080p HD PTZ camera for low light applications

The PTZ-HD30-18 is a high quality, high-definition color video camera with outstanding low-light performance. It has a 30x motor-driven optical zoom. The PTZ-HD30-18 can provide multiple streams of high frame rate video.

The camera automatically switches to black and white and removes an IR cut filter to increase sensitivity in low light conditions. The integrated IR LEDs provide quality performance in complete darkness up to 150 meters.

The high speed pan, tilt, and zoom functions can be controlled automatically and precisely from anywhere using the click-to-point and preset view features of IVC's camera management software packages.

The camera is housed in a weatherproof enclosure rated IP66. It requires only a power source and Ethernet connection for installation.



IPIntegration, Inc.
(Securing Your Connection to the Future)

PRODUCT LITERATURE – INDUSTRIAL VIDEO & CONTROL
GSA SCHEDULE No: GS-35F-0740P
EFFECTIVE DATE: OCTOBER 2019

IP Integration, Inc.
PO Box 28617
Santa Ana, CA 92799
Phone: (714) 557-5200

► specifications

Imager	1/2.8" STARVIS™ CMOS
Resolution	1920(H)×1080(V)
Shutter Speed	1 to 1/300,000 Seconds
Minimum Illumination	Color: 0.005 Lux@F1.6 0 Lux to 150m with IR ON
F number	F1.6
Focal Length	2.4° – 67.8°
Zoom ratio	30x
Iris	Auto and Manual
Day/night	Auto
Focus	Auto and Manual
White Balance	Auto, Manual, ATW
Pan Angle	360°
Pan Speed	300° Per Second
Tilt Angle	-15° to 90°; auto flip 180°
Tilt Speed	150° Per Second
I/O Terminals	2 Inputs; Output
Ethernet	100Base-TX/10BaseT (RJ-45)
Protocols	TCP/IP, HTTP, HTTPS, FTP, SMTP
Compression	M-JPEG, H.265/H.264
Frame Rate	30 FPS
Voltage Required	24 VAC, PoE, 100 - 240 VAC**
Power Consumption	23W max (with heaters/IR on)
Weight	7.72 lbs. (dome only)
Operating Temperature	-40° C - 70° C
Dimensions	Ø 7.32" x 12.17" H (dome only)
Mount	Wall mount standard
Enclosure Rating	IP66

* VAC version includes UDA1 wall mount arm

► accessories

MB-100-05	Pole Mount Bracket
MB-100-08	Corner Mount Bracket
MB-100-13	Ceiling Mount Bracket

IP Integration, Inc
CCTV SPECIALISTS - MILITARY

GSA Contract - August 2019

Tom Hurley 714.557.5200 thurley@ipi-1.com



330 Nevada St., Newton, MA 02460 www.ivcco.com 617-467-3059

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► features



1080p high-definition broadcast quality images for detailed post-event analysis



30 frames per second for smooth video



Rated IP66 for all weather applications

► ordering information

PTZ-HD30-18-C-V

-V	Voltage Required
	802.3at Power over Ethernet & 24VAC
AC	100 - 240 VAC*
-C	Camera
30	30x Optical Zoom

► IVC camera management software

Point & click camera management & control

Robust, enterprise class software to manage and control your cameras and video from anywhere in the world.





IPIntegration, Inc.
(Securing Your Connection to the Future)

PRODUCT LITERATURE – ACTELIS NETWORKS
GSA SCHEDULE No: GS-35F-0740P
EFFECTIVE DATE: OCTOBER 2019

IP Integration, Inc.
PO Box 28617
Santa Ana, CA 92799
Phone: (714) 557-5200



GLOBAL SUPPLIER OF
EFM OVER COPPER

INFONETICS
RESEARCH

No. 1
2009
2010
2011
2012
2013

ML2300 Ethernet Aggregation Switch

The Actelis® ML2300 is a compact, next-generation Ethernet aggregation platform that delivers high-speed Ethernet services.

With Actelis' best-in-class Ethernet over copper solutions, incorporating EFMplus™ and DRB technologies, the ML2300 delivers unprecedented Rate, Reach and Reliability over existing copper facilities, enabling wide-scale deployment of Ethernet services and infrastructure. The ML2300 is available with front and rear access options and installs within minutes, enabling immediate deployment of broadband services. The ML2300 offers a density of up to 64 ports per Rack unit (RU). The ML2300 is interoperable with any standard Ethernet switch or router and aligned with Metro Ethernet Forum (MEF) recommendations, enabling Actelis systems to seamlessly integrate into carrier Ethernet networks.

Architecturally, the ML2300 platform serves as a Central Office (CO) aggregator in a Point-to-Multipoint topology connecting to multiple ML600 (copper) and ML500 (fiber) Ethernet Access Devices (EADs). For copper deployments, each ML600 EAD is connected to the ML2300 via a High-Speed Link (HSL) comprising 1-16 bonded-copper pairs and offering up to 230 Mbps per HSL. A number of ML2300 systems can be stacked in a Star or Ring topology, providing flexible topology layouts and higher port density per uplink. To meet higher bandwidth and/or reach requirements, the Actelis ML2300 can be used as an EAD bonding up to 32 pairs per HSL, offering more than 400Mbps per HSL. The ML2300 HSLs can be used both for aggregation and service distribution.

The ML2300 has two Service Dispatcher Unit (SDU) slots and four Multipoint Line Unit (MLU) slots, allowing for incremental service growth, equipment redundancy, MLP (Modem Line Port) redundancy and flexible modem allocation (any modem to any HSL) using pluggable cards. A variety of SDU and MLU cards exist, supporting different numbers of Ethernet and modem ports per chassis. The MLU-32EF, MLU-32ER, MLU-32DF and MLU-32DR line units offer 32 G.SHDSL.bis modems per card and up to 128 modems per shelf. The MLU-64DR and MLU-64DF line units offer superior density of 64 G.SHDSL ports per card and up to 256 ports per ML2300. When equipped with MLU-64DR/DF or MLU-32DR/DF, the ML2300 offers significantly increased performance over bonded copper by utilizing Actelis' DRB technology.

The SDU-440/450 linecard series offer advanced Ethernet switching capability as well as multiple uplinks, providing flexible integration into

Ethernet and SONET/SDH networks. The ML2300's Small Form-factor Pluggable (SFP) ports accept standard 100Base-FX, 1000Base-FX, 2500BaseFX, 1000Base-T and T3/E3 modules. Digital Diagnostics Monitoring (DDM) capabilities are supported for enhanced diagnostic and troubleshooting.

The ML2300 can dramatically increase reach by utilizing Actelis' XR239 G.SHDSL Repeaters and Actelis' PFU-8x units for repeaters remote powering. The ML2300 can support up to 8 hops (9 segments), with each XR239 supporting 2 copper pairs.

The ML2300 supports current and evolving MEF service requirements, supporting 2000 EVC flows meters, policing and shapers. Additionally, the ML2300 provides 802.1q VLAN-aware wire-speed bridging, optimizes multicast switching by IGMP v1/v2 snooping, performs double tagging (VLAN stacking) for end-user VLAN transparency, applies 802.1p COS classification and marking, as well as supports per port egress rate limiting. Service resiliency can be assured using Ethernet Ring Protection Switching (ERPS) (G.8032), offering sub-50ms protection switching. In addition, RSTP/STP, Automatic Protection Switch (APS) and Link Aggregation (LAG) protocols are supported on all Ethernet ports.

The ML2300 provides enhanced troubleshooting and OAM capabilities. The ML2300 offers proactive and reactive tools for dynamic troubleshooting and monitoring capabilities. Advanced Carrier-class EFM OAM, including 802.3ah, CFM (802.1ag) and Y.1731 (ITU), are incorporated, offering physical link, service level end-to-end advanced troubleshooting, as well as performance and Service Level Agreement (SLA) monitoring mechanisms. In addition, the ML2300 supports bandwidth utilization monitoring per port and EVC as well as Ethernet frames triggering. Time-Domain Reflectometer (TDR) capability, integrated as part of the ML2300 along with external Metallic Loop Test (MLT) connectivity, enables an effective troubleshooting tool to locate most DSL-affecting copper problems. The information gathered includes accurate end-to-end loop length measurement, as well as identification of various fault types impacting signal continuity between loop spans.

The ML2300 can be managed In-Band and Out-of-Band by Actelis' MetaASSIST™ View graphical craft application and via Actelis' multiplatform Element Management System, MetaASSIST EMS. The management protocols include SNMP using standard MIBs, de facto standard CLI, and standard TL1 command line interface for seamless integration with third-party Network Management Systems (NMS).

Highlights

- IEEE 802.3ah Ethernet in the First Mile (EFM) 2Base-TL Solution
- CE 2.0, CE 1.0 - MEF 9, 10, 14
- Rapid Service Deployment
- Carrier-Class Redundancy
- Carrier-Class OAM
- Superior Rate, Reach & Reliability through EFMplus and DRB
- Low Delay and Jitter for Voice and Video Transmission
- Worldwide Spectral Compliancy
- NEBS III, FCC, UL, CE
- Environmentally Hardened

Applications

- DSLAM Backhaul
- WiFi and Cellular Backhaul
- Fast Internet Access
- MDU/MTU Backhaul
- Metro Ethernet Extension
- Private Campus Network Intra-Connection
- Transparent LAN Service

Markets Served

- ILECs, CLECs, IOCs, PTTs, and Alternative Carriers
- Federal, State and Local Government Agencies
- Education, Health Care, Utilities, and Private Campuses

High Performance Broadband Over Copper



ML2300



Specifications

System

	SDU's Service Dispatching Units	MLUs Modern Line Units	Max Copper Pairs (chassis connectors)
ML2300 CHS-2000/B 19"	SDU-450 Series SDU-440 Series	MLU-32ER rev B MLU-32EF MLU-320R/DF MLU-324R/DF*	256
ML2300 CHS-2000 19" CHS-2000 ETSI	SDU-450 Series SDU-440 Series	MLU-32ER rev B MLU-32ER MLU-32EF MLU-320R/DF	128
	SDU-450 Series	MLU-64DF	256

- Slots 6: 1-2 x SDU, 1-4 x MLU
- **Redundancy:** Ethernet Facility redundancy
SDU Equipment protection, Modem port/pair redundancy, Power input redundancy, Dual star backplane
- **End-to-End Delay:** 2-4 ms (typical) Construction

Product Interfaces

Ethernet (Network/User) No. of Interfaces SDU model dependant

- 10/100Base-T Ports: RJ45, Auto-MDIX
- 100/1000Base-T (option): RJ45, Auto-MDIX
- 1000/2500Base-FX (option): SFP based, MSA compliant

High Speed Link (Bonded Copper Pair Link)

- HSLs (max): 64/128 (SDU-440/SDU-450 series)
- Protocol: IEEE 802.3ah 2Base-TL
- Linecode: ITU-T G.991.2 rev. 2
- Copper Pairs per HSL: 1-16 with ML600
1-32 with ML2300/ML2300
- Bandwidth per HSL: 1-230 Mbps w/ML600
Exceeding 400 Mbps w/ML2300 SDU-450
- Connector: 1x DIN 128-pin, rear access, per slot
2x50-pin Telco for front access MLUs-32EF
64-pairs FCI Connector for front access MLU-32/64DF cards
- Cross-talk Cancellation
Dynamic Rate Boost (DRB)
(Note : DRB friendly for HSL bonding more than 8 pairs)
- Spectral Compliance: ITU-T G.991.2 (Annex A, B, F, G); ETSI TS 101 524 (Annex E); ANSI T1.417, T1.426; Per country regulatory compliant spectral modes
- Spectral Friendliness
Dynamic Spectral Shaping (DSS)
- Sealing (Wetting) Current** 48V/1.5mA nominal
(Note: Sealing current will not be supported on Add-Drop configurations)

Copper Pair Testing Tools

- Time Domain Reflectometer: Loop length measurement, fault types identifications (presence & location)
- External Metallic Loop Testing: 2 x RJ45 connectors, any copper pair Physical Characteristics

Management (Out-of-Band)

- 10/100Base-T: Connector: RJ45, Auto-MDIX
- Craft: EIA RS-232 (DCE) Connector: DB9
- Dial-up Modem: EIA RS-232 (DTE) Connector: DB9
- Alarm Contacts: 4 Input; 4 Output
Connector: DB15 and Wire-wrap

Ethernet Capabilities & Protocols

- Dynamic Bridging: IEEE 802.1
- VLAN Tagging: IEEE 802.1Q
- Double Tagging: Qin-Q, VMAN
- IGMP Snooping: IGMP v1/v2 (SDU-450 series)
- RSTP, STP: IEEE 802.1d
- Link Aggregation: IEEE 802.3ad
- ERPS: ITU-T G.8032
- Provider Bridges: IEEE 802.1ad
- LLDP: IEEE 802.1ab

Quality of Service

- Classes of Service: 2K queues per system
- Scheduler: 4SP, WFQ in each SP
- Queue Management: Tail Drop
- Classification: Port/L2 802.1p/Q priorities

Management

Protocols

- SNMP: SNMP V3, V2C, V1
- IP addresses: IPv4 and IPv6
- Command Line Interface: TL1, CLI
- Remote Access: Telnet
- Secure Access (option): SSH v2
- Time Synchronization: SNTP v3
- Radius Authentication: RFC 2866
- Web Access: HTTP
- File Transfer: FTP, TFTP
- EFM OAM: IEEE 802.3ah clause 57
- CFM & Service OAM: IEEE 802.3ag; ITU Y.1731

Applications

- EMS: MetaASSIST™ EMS
- Craft GUI: MetaASSIST™ View

Front Panel Indicators

System

- Power A/B
- Critical, Major, Minor, HSL/FAN, Alarm
- ACO (Alarm Cut-Off) / LMT (Lamp Test) Button

Card

- Active Status
- ACT (Activity) /LNK (Link), Per Ethernet port

Physical

- Chassis: 19" (CHS-2000/B), ETSI (CHS-2000)
- Mounting Rack: 19", 23" or ETSI rack
- Dimensions: Height: 7" / 178mm (4U) or 225 mm (for ETSI chassis) Depth: 12" / 305mm or 11" / 280 mm (for ETSI chassis) Width: 17.32" / 440 mm
- Weight: 15.0 lbs/ 6.8 Kg (chassis only)
- Plug-in Cards: 6 horizontal, front loading
- Power DC: -48/-60 VDC nominal, dual A+B
140 Watt min configuration (1x SDU, 1xMLU-64);
380 Watt, full chassis w/o SDU redundancy (1x SDU,
4x MLU-64); 405 Watt for fully loaded system WITH
(2x SDU, 4x MLU-64)

Environmental

- Operating Temp: -40° to +65°C (-40° to +149° F)*
- Storage Temp: -40° to +75°C (-40° to +167° F)
- Relative humidity: Up to 95%, non-cond.
(Note: Tested in accordance with NEMA temperature requirements with MLU-320x cards)

Regulatory Compliance/Certifications

- Metro Ethernet Forum
CE 2.0, CE 1.0 - MEF 9, 10, 14
- Safety
UL 60950, CSA C22.2 60950;
EN 60950, IEC 60950

EMC

- FCC Part 15 Class A; ICES-003 Class A;
ETSI EN 300 386;
ETSI ETS 300 132-2; ITU-T K.20

NEBS

- Level III (GR-1089-CORE, GR-63-CORE)

CE

- EMC and Safety

Environmental

- GR-63-CORE; ETSI ETS 300 019



IP Integration, Inc

COPPER BROADBAND SPECIALISTS

GSA Contract - August 2019

Tom Hurley 714.557.5200 thurley@ipi-1.com



IPIntegration, Inc.
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PRODUCT LITERATURE – ACTELIS NETWORKS
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IP Integration, Inc.
PO Box 28617
Santa Ana, CA 92799
Phone: (714) 557-5200



APL APPROVED
TRACKING NO. 1823301

ML630 Ethernet Access Device

The ML630 Ethernet Access Devices (EADs) from Actelis® enable delivery of high-speed carrier Ethernet services over existing copper and fiber infrastructure. The ML630s are intelligent, compact EADs that deliver up to 100 Mbps of symmetrical Ethernet traffic with fiber quality over existing copper pairs.

The ML630 supports 8 copper pairs with optional SFP fiber configurations. The ML630 EAD can be deployed in a Point-to-Point configuration, optional copper Add-Drop chain, or as the CPE in a Point-to-Multi-Point configuration with Actelis' EFM switches. With its superior performance, extensive functionality and low cost, the ML630 EAD platforms offer rapid service delivery and allow for complete utilization of the existing network infrastructure.

The ML630 EAD platforms are interoperable with any standard Ethernet switch, router or hub. Compliant with Metro Ethernet Forum (MEF) specifications, ML630 EAD systems seamlessly integrate into carrier Ethernet Networks. Equipped with 4 10/100Base-T Ethernet interfaces and an optional 100/1000Base-FX Small Form Factor (SFP) port, the ML630 EAD platform allows assignment of a service or a customer per port.

The ML630 EAD models let service providers create an intelligent Ethernet access edge with bandwidth limiting per ingress port and traffic shaping on the Ethernet access uplink (HSL). The ML630 is fully compliant with the MEF 9 and 14 specifications.

Powered by Actelis Networks' award-winning EFMplus™ technology, the rate, reach and reliability are increased significantly using advanced Dynamic Spectrum Management (DSM) and Dynamic Rate Boost (DRB) techniques. This technology doubles the rate/reach in real-world field deployments. Combined with Actelis industry-leading XR239 EFM repeaters, the reach can be extended even further. All ML630 EAD models provide 802.1q VLAN-aware wire-speed bridging, double tagging (VLAN stacking) for end-user VLAN transparency, L2 (Ethernet priority) and L3 (ToS/Diff-

Serv) classification with four traffic classes, RSTP/STP, bandwidth monitoring, and Multicast/Broadcast limiting.

The ML630 EADs provide proactive and dynamic tools for enhanced trouble shooting and monitoring capabilities. Advanced Carrier-class EFM OAM, including 802.3ah, CFM (802.1ag) and Y.1731 (ITU), are incorporated, offering both physical link as well as service level end-to-end advanced troubleshooting mechanisms.

The ML630 EAD platforms can be managed In- and Out-of-Band by the MetaASSIST™ View graphical craft application and via the multi-platform Element Management System, MetaASSIST EMS. The management protocols include standard command line interface and SNMP using standard MIBs for seamless integration with third-party Network Management Systems (NMS).



Highlights

- IEEE 802.3ah Ethernet in the First Mile (EFM) 2Base-TL Solution
- CE 1.0 - MEF 9, 14
- Rapid Service Deployment
- Superior Rate, Reach & Reliability
- Low Delay and Jitter for Voice and Video Transmission
- Worldwide Spectral Compliance
- OSMINE, NEBS III, FCC, UL, CE
- Environmentally Hardened

Applications

- Transparent LAN Service
- Fast Internet Access
- Metro Ethernet Extension
- Private Campus Network
- Intra-Connection
- MDU/MTU Backhaul
- DSLAM Backhaul
- WiFi and Cellular Backhaul (Radio Access Network)
- Leased Lines Replacement

Markets Served

- ILECs, CLECs, IOCs, PTTs, and Alternative Carriers
- Federal, State and Local Government Agencies
- Education, Health Care, Utilities, and Private Campuses

High Performance Broadband Over Copper



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PRODUCT LITERATURE – ACTELIS NETWORKS
GSA SCHEDULE No: GS-35F-0740P
EFFECTIVE DATE: OCTOBER 2019

IP Integration, Inc.
PO Box 28617
Santa Ana, CA 92799
Phone: (714) 557-5200

Actelis
Networks™

ML630



Specifications

Interfaces

Ethernet (Network/User)

- **10/100Base-T:** 4 ports, Connector: RJ45, Auto-MDIX
- **100/1000Base-FX:** 1 port (option), Connector: SFP based, MSA compliant

High Speed Link (Bonded Copper Pairs)

- **Protocol:** IEEE 802.3ah 2Base-TL
 - **Line code:** ITU-T G.991.2 rev. 2
 - **Bandwidth:** Up to 100 Mbps (symmetrical)
 - **Number of Copper Pairs:** 8, Connector: RJ45 (per modem/pair)
 - **End-to-end Delay:** 2-4 ms (typical)
 - **Spectral Compliance:** ITU-T G.991.2 (Annex A, B, F, G) ETSI TS 101 524 (Annex E) ANSI T1.417, T1.426 Per-country regulatory compliant spectral modes
 - **Spectral Friendliness:** Dynamic Spectral Shaping (DSS)
 - **Cross-talk Cancellation:** Dynamic Rate Boost (DRB)
 - **Sealing Current:** 48VDC/1.5mA nominal
- #### Management (Out-of-Band)
- **10/100Base-T:** Connector: RJ45, Auto-MDIX
 - **Craft:** EIA RS-232 (DCE), Connector: DB9

LAN Protocols

- **Dynamic Bridging:** IEEE 802.1, 8K MAC addresses
- **Discovery Mechanisms:** LLDP
- **VLAN Tagging:** IEEE 802.1Q
- **Double Tagging:** Q-in-Q
- **RSTP, STP:** IEEE 802.1d
- **Link Aggregation:** IEEE 802.3ad
- **Provider Bridges:** IEEE 802.1ad
- **OAM:** IEEE 802.3ah clause 57 (EFM OAM), IEEE 802.1ag, ITU Y.1731, Ethernet loopback with MAC swap

Management

Protocols

- **SNMP:** SNMP v3, v2c, v1
- **IP addresses:** IPv4 and IPv6
- **Command Line Interface:** TL1, Industry Standard CLI
- **Remote Access:** Telnet
- **Secure Access (option):** SSH v2
- **Time Synchronization:** SNTP v3
- **Web Access:** HTTP
- **File transfer:** FTP, TFTP
- **IEEE 802.3ah EFM OAM:** Dying Gasp
- **User Authentication:** RADIUS and/or local passwords

Applications

- EMS: MetaASSIST EMS
- Craft GUI: MetaASSIST View

Advanced Service Provisioning and Traffic

Management

Quality of Service

- **Classes of Service:** 4
- **Scheduler:** WFQ, SP
- **Classification:** L2 802.1p/Q priorities

Front Panel Indicators (LEDs)

- Power
- Status
- Alarm
- MLP per modem/pair
- ACT (Activity)
- LNk (Link) per Ethernet/HSL port

Alarm Contacts

- **Terminal Block:** 2 Input, 1 Output

Physical

- **Dimensions:** Height: 1.6" / 40mm (1U), Depth: 11.0" / 280mm, Width: 8.4" / 213mm
- **Weight:** 3.75 lbs / 1.7 Kg
- **Mounting Rack:** 2 units in 19", 23" or ETSI racks Desktop, Wall Mount
- **Power DC:** -48/-60 VDC nominal, 13.5-17 Watt (per model) AC: 90-264 VAC, 47-63 Hz, 17-21 Watt (per model)

Environmental

- **Operating Temp:** -40° to +65°C*
 - **Storage Temp:** -40° to +75°C
 - **Relative humidity:** Up to 95%, non-cond.
- *Tested in accordance with NEMA temperature requirements

Regulatory Approval/Certifications

Metro Ethernet Forum

- CE1.0 - MEF 9, 14

Safety

- UL 60950, CSA C22.2 60950
- EN 60950, IEC 60950

EMC

- FCC Part 15 Class B
- ICES-003 Class B
- ETSI EN 300 386 Class B
- ETSI ETS 300 132-2
- ITU-T K.20, K.21

NEBS

- Level III (GR-1089-CORE, GR-63-CORE)

CE

- EMC and Safety

Environmental

- GR-63-CORE
- ETSI ETS 300 019



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