

## STATE TERM CONTRACT

THIS CONTRACT (the "Contract") is between the State of Ohio ("State"), through its Department of Administrative Services, General Services Division, at 4200 Surface Road, Columbus, Ohio, 43228 and Icom America, Inc. ("Contractor"), with offices at 2380 116<sup>th</sup> Ave, NE, Bellevue, Washington, 98004.

### BACKGROUND

The State recognizes that it is sometimes advantageous to do business with some manufacturers under a State term contract rather than through a competitive bidding or proposal process. In such cases, the State may enter into a contract with the manufacturer provided that the manufacturer offers its products and ancillary services at the same prices that the manufacturer offers those products and services to the US Government under the GSA's Multiple Award Schedule program or SmartBuy program. Or if the manufacturer has no contract under the GSA's Multiple Award Schedule program or SmartBuy program, the State will accept the pricing the manufacturer offers to its distributors. Further, if the manufacturer has no GSA Multiple Award Schedule or SmartBuy contract and no distributors, the State may accept the prices that the manufacturer offers to its most favored customers for each product or service.

The State also recognizes that some manufacturers work primarily through dealers for various reasons, including offering customers better support through dealers that have a local presence in a service area. Because of this, the State may sometimes agree to work directly with a manufacturer's dealers.

However, if the Contractor is not the manufacturer of the products or services under this Contract, the Contractor must submit a letter from the manufacturer that assures the State that the Contractor is an authorized dealer in the manufacturer's products or services. The letter also must assure the State that the Contractor will have sufficient quantities of the offered products for the duration of the Contract to meet the State's needs under the Contract during the initial term and any extensions. Further, the letter must identify each of the manufacturer's product and service that the Contractor will supply under this Contract. The letter also must contain an assurance of the availability through the dealer of repair services and spare parts for products covered by this Contract for five years from the date of purchase. It also must contain an assurance that software maintenance will be available under the terms of this Contract either from the dealer or the manufacturer for six years from the date of acceptance. (This assurance is not necessary for PC and PC-based server software with a perpetual license fee of less than \$10,000.00 per copy.) The dealer must submit the letter, signed by an authorized representative of the manufacturer, with the executed copies of this Contract.

This Contract establishes terms and conditions under which State agencies (including any board, instrumentality, commission, or other political body) and Ohio political subdivisions, such as counties, municipalities, and townships, may acquire the Contractor's products or services at the pricing identified below. This Contract, however, only permits such; it is not a requirements contract and does not obligate any State agency or political subdivision to acquire the Contractor's products or services.

### TERMS AND CONDITIONS

#### 1 - TERM

- 1.1 **TERM.** This Contract is effective on the date the State's duly authorized representative executes it, as evidenced by the date appearing with the representative's signature, below. Unless this Contract is terminated or expires without renewal, it will remain in effect until December 14, 2015. Termination or expiration of this Contract will not limit the Contractor's continuing obligations with respect to Deliverables that the State paid for before termination or limit the State's rights in such.

#### 2 - PRICING AND PAYMENT

- 2.1 **CERTIFICATION OF ACCURACY.** By checking one of the following three items, the Contractor certifies that the Contractor's prices under this Contract are:
- X The prices at which the Contractor currently offers each product and service to the US Government under the GSA's Multiple Award Schedule program;  
The prices at which the Contractor currently offers each product and service to the US Government under the GSA's SmartBuy program; or  
The best prices at which the Contractor has offered each product and service to its most favored customers within one year before the date the Contractor executed this Contract or adds the product or service to this Contract, whichever is later.

If the Contractor is offering prices based on its most favored customer prices, the Contractor represents that it does not have a GSA Multiple Award Schedule or SmartBuy contract.

If the Contractor has submitted a manufacturer's letter to certify that the Contractor is an authorized dealer for the manufacturer, the Contractor represents that the information in the letter is accurate and that a duly authorized representative of the manufacturer signed the letter.

The Contractor further certifies that the above representations will apply and be true with respect to all future pricing information submitted to revise this Contract.

- 2.2 PRICE ADJUSTMENTS.** If the Contractor has relied on its GSA Multiple Award Schedule pricing or its GSA SmartBuy pricing, the State will be entitled to any price decreases that the Contractor offers to the GSA for any of its products and services during the term of this Contract. The Contractor must notify the State of any reduction in its GSA Multiple Award Schedule or SmartBuy pricing within 30 days of its occurrence and immediately reduce the price of the affected products or services to the State under this Contract.

If the Contractor has relied on its best customer pricing, the State will be entitled to a price decrease any time the Contractor or any of its dealers or distributors under this Contract sells a product or a service to any of its customers for less than the price agreed to between the State and the Contractor under this Contract. Any time the Contractor or any of its dealers or distributors under Section 3.1 of this Contract sells a product or provides a service to any customer for less than it is then available to the State under this Contract, the Contractor must notify the State of that event within 30 days of its occurrence and immediately reduce the price of the affected products or services to the State under this Contract.

The Contractor also must notify the State within 30 days of any general reduction in the price of any product or service covered by this Contract, even if the general reduction does not place the price of the product or service below the price available to the State under this Contract. The purpose of this notice of a general reduction in price is to allow the State to assess the value the State believes it is receiving under this Contract in light of the general reduction. If the State believes it is appropriate, the State may ask to renegotiate the Contract price for the products and services affected by the general reduction in price. If the Contractor and the State cannot agree on a renegotiated price, then on written notice to the Contractor, the State may immediately remove the affected products and services from this Contract.

- 2.3 PRICELIST.** The Contractor's pricelist for the products and services that the Contractor may provide to the State under this Contract is attached as Exhibit I. For convenience, those products and services are called "Deliverables" in this Contract. Any custom materials resulting from the Contractor's services also are called "Deliverables" in this Contract. The Contractor may not provide any other Deliverables under this Contract without a prior written amendment to this Contract that both the State and the Contractor have signed. Furthermore, the Contractor may not charge the State greater prices for these Deliverables than the prices on the Exhibit I. If Exhibit I contains or incorporates by reference any terms or conditions other than a description of the scope of license for software, a description of the Contractor's products and services, and the prices for those products and services, those terms or conditions are excluded from this Contract and are of no effect. Exhibit I is identified as the following pricelist:

GSA Pricelist Dec. 2010

The Contractor will not sell to the State any notebook computers with less than a 1.60 GHz internal clock speed. Additionally, the Contractor will not sell to the State any PCs or servers using CPUs with less than a 3.0 GHz internal clock speed. Additionally, the Contractor will not sell to the State any term software licenses. And except in the case of operating systems licensed in conjunction with desktop PCs, notebook computers, PDAs, and similar personal computing devices that the OEM does not distribute without an operating system, the Contractor will not sell or license any Microsoft software to the State. If any of the foregoing items are listed in the Contractor's pricelist, they are deleted for purposes of this Contract.

- 2.4 Payment Due Date.** Payments will be due on the 30th day after the later of:
- (a) The date the State actually receives a proper invoice at the office designated in the applicable purchase order to receive it; or
  - (b) The date the State accepts the Deliverable.

The date the State issues a warrant (the State's equivalent to a check) in payment of an invoice will be considered the date payment is made. Without diminishing the Contractor's right to timely payment, the payment will be overdue only if it is not received by the 30th day after the payment's due date. If the State has not issued payment by then, interest will begin to accrue under Ohio Revised Code (the "Code") § 126.30.

- 2.5 Invoice Requirements.** The Contractor must submit an original invoice with three copies to the office designated in the purchase order as the "bill to" address. To be a proper invoice, the invoice must include the following information:

- (a) Name and address of the Contractor as designated in this Contract;
- (b) The Contractor's federal tax identification number as designated in this Contract;
- (c) The Contractor's invoice remittance address as designated in this Contract;
- (d) The purchase order number authorizing the delivery of the Deliverables;
- (e) A description of the Deliverables, including, as applicable, the time period, serial number, unit price, quantity, and total price of the Deliverables; and

If an authorized dealer has fulfilled the purchase order, then the dealer's information should be supplied in lieu of the Contractor's information. If an invoice does not meet this section's requirements, or if the Contractor fails to give proper notice of a price increase (see the next section), the State will send the Contractor written notice. The State will send the notice, along with the improper invoice, to the Contractor's address designated for receipt of purchase orders within 15 days. The notice will contain a description of the defect or impropriety and any additional information the Contractor needs to correct the invoice. If such notification has been sent, the payment due date will be 30 days after the State receives a proper invoice and has accepted the Contractor's Deliverable.

- 2.6 **OHIO PAYMENT CARD.** Participating State agencies issuing orders under this Contract may use the Ohio Payment Card. Such purchases may not exceed \$2,500 unless the Office of Budget and Management ("OBM") has authorized the agency to exceed this limit. If OBM increases the dollar limit for payment cards for all State agencies, the State will post notice of that on its Procurement Website. Participating State agencies are required to use the Ohio Payment Card in accordance with OBM's current guidelines for the Ohio Payment Card and the agency's approved plan filed with the OBM. The Contractor may process a payment in the payment card network only upon delivery and acceptance of the applicable Deliverables. For partial deliveries or performance, the Contractor may process a payment for the amount delivered or completed only and not for the entire amount ordered by the ordering agency. Upon completion of the delivery of remaining Deliverables, the Contractor may process a payment request in the payment card network for the remainder of the order. The Contractor should receive payment through its merchant bank within the time agreed upon between the Contractor and its merchant bank. The Contractor should expect normal processing fees from its merchant bank for payment card transactions, which the Contractor may not pass on to the State.
- 2.7 **NON-APPROPRIATION OF FUNDS.** The State's funds are contingent on the availability of lawful appropriations by the Ohio General Assembly. If the Ohio General Assembly fails to continue funding for any payments due hereunder, the order or orders under this Contract that are affected by the lack of funding will terminate as of the date that the funding expires, and the State will have no further obligation to make any payments with respect to the affected order or orders.
- 2.8 **OBM CERTIFICATION.** This Contract is subject to Code § 126.07. Any orders under this Contract are void until the Director of the OBM certifies that there is a balance in the appropriation available to pay for the order.
- 2.9 **CONTROLLING BOARD AUTHORIZATION.** The State's obligations under this Contract are subject to the Ohio Controlling Board continuing to authorize the State's use of its term contracts program. If the Ohio Controlling Board fails to authorize or withdraws its authorization for this program, this Contract will terminate immediately, and the Contractor may not take any more orders under it.
- 2.10 **TRAVEL EXPENSES.** Any travel that the Contractor requires to perform its obligations under this Contract will be at the Contractor's expense. The State will pay for any additional travel that it requests only with prior written approval. The State will pay for all additional travel expenses that it requests in accordance with OBM's travel policy in Rule 126-1-02 of the Ohio Administrative Code (the "Administrative Code").
- 2.11 **TAXES.** The State is exempt from all sales, use, excise, and property taxes and will not pay any such taxes. To the extent sales, use, excise, or any similar taxes are imposed on the Contractor in connection with any Deliverable, the Contractor must pay those taxes together with any interest and penalties not successfully disputed with the taxing authority.
- 2.12 **OFFSET.** The State may set off any amounts the Contractor owes to the State under this or other contracts against any payments due from the State to the Contractor under this or any other contracts with the State.

### 3 - CONTRACT ADMINISTRATION

- 3.1 **DEALERS AND DISTRIBUTORS.** The State authorizes the Contractor to name one or more dealers to work with the State on behalf of the Contractor. But if the Contractor decides to use any dealers, the Contractor must submit the name, principal business address, addresses for purchase orders and for payments, telephone number, and its federal tax identification number. The Contractor also must submit a completed W9 form for each dealer it wishes to name under this section. The Contractor's submission must be on its official letterhead, signed by an authorized representative, and addressed to the Deputy State Chief Information Officer, Office of Information Technology.

In doing so, the Contractor warrants that:

- (a) The Contractor has provided the dealer with a copy of this Contract, and a duly authorized representative of the dealer has agreed, in writing, to be bound by the terms and conditions in this Contract.
- (b) Such agreement specifically provides that it is for the benefit of the State as well as the Contractor.
- (c) The Contractor will remain liable under this Contract for the services of any dealer and will remedy any breach of the dealer under this Contract.
- (d) Payments under this Contract for the services of any dealer may be made directly to that dealer, and the Contractor will look solely to the dealer for any payments due to the Contractor once the State has paid the dealer.
- (e) To the extent that there is any liability to the State arising from doing business with a dealer that has not signed the agreement required under this section with the Contractor, the Contractor will indemnify the State for such liability.

If the Contractor wants to designate a dealer that will not receive payments (a "distributor"), the Contractor may do so by identifying the person or organization as a distributor in the authorizing letter. In such cases, information regarding taxpayer identification and payment addressing may be omitted, as may the distributor's W9 form. All other requirements and obligations for designating a dealer apply to designating a distributor.

The State strongly encourages the participation of small and disadvantaged businesses in its contracting programs and has created a certification program to Encourage Diversity Growth and Equity (EDGE) in State contracting. State agencies are instructed to include in their procurements such participation, including through the use of State Term Schedule contracts that are either held by EDGE businesses or that offer the opportunity to work with EDGE dealers or distributors.

- 3.2 AUDITS.** During the term of this Contract and for three years after termination, on reasonable notice and during customary business hours, the State may audit the Contractor's records and other materials that relate to the Deliverables and to the pricing representations that the Contractor has made to acquire this Contract. This audit right also will apply to the State's duly authorized representatives and any organization providing funding for any Deliverable.

Unless it is impracticable to do so, all records related to this Contract must be kept in a single location, either at the Contractor's principle place of business or the facilities where the Contractor substantially performed under this Contract. If this is not practical, the Contractor must assume the cost of collecting, organizing, and relocating the records, along with any technology needed for accessing the records, to its office nearest Columbus, Ohio whenever the State or any entity with audit rights requests access to the records. The Contractor must do so within 15 days of receiving the State's written notice of its intent to audit the Contractor's records and must notify the State as soon as the records are ready for audit.

If any audit reveals any material misrepresentation or overcharge to the State, the State will be entitled to recover its damages, including the cost of the audit.

- 3.3 INSURANCE.** The Contractor must provide the following insurance coverage at its own expense throughout the term of this Contract:

- a. Workers' compensation insurance, as required by Ohio law, and if some work will be done outside Ohio, the laws of the appropriate states where work will be done. The Contractor also must maintain employer's liability insurance with at least a \$1,000,000.00 limit.
- b. Commercial General Liability insurance coverage for bodily injury, personal injury, wrongful death, and property damage. The defense cost must be outside of the policy limits. Such policy must designate the State of Ohio as an additional insured, as its interest may appear. The policy also must be endorsed to include a blanket waiver of subrogation. At a minimum, the limits of the insurance must be:

- \$ 2,000,000 General Aggregate
- \$ 2,000,000 Products/Completed Operations Aggregate
- \$ 1,000,000 Per Occurrence Limit
- \$ 1,000,000 Personal and Advertising Injury Limit
- \$ 100,000 Fire Legal Liability
- \$ 10,000 Medical Payments

The policy must be endorsed to provide the State with 30-days prior written notice of cancellation or material change to the policy. And the Contractor's Commercial General Liability must be primary over any other insurance coverage.

- a. Commercial Automobile Liability insurance with a combined single limit of \$500,000.
- b. Professional Liability insurance covering all staff with a minimum limit of \$1,000,000 per incident and \$3,000,000 aggregate. If the Contractor's policy is written on a "claims made" basis, the Contractor must provide the State with proof of continuous coverage at the time the policy is renewed. If for any reason the policy expires, or coverage is terminated, the Contractor must purchase and maintain "tail" coverage through the applicable statute of limitations.

All certificates must be in a form that is reasonably satisfactory to the State as to the contents of the policies and the quality of the insurance carriers. All carriers must have at least an "A-" rating by A.M. Best.

- 3.4 **CONTRACT COMPLIANCE.** Any State agency that uses this Contract will be responsible for the administration of this Contract with respect to the orders that it places and may monitor the Contractor's performance and compliance with this Contract. If an agency becomes aware of any noncompliance with the terms of this Contract or the specifications of an order, the agency may document the noncompliance and give the Contractor written notice of the noncompliance for immediate correction. If the Contractor fails to cure the noncompliance, the agency may notify the State through the Department of Administrative Services, Office of State Purchasing, by executing a Complaint to Vendor form to help resolve the issue. Should the State determine that the form identifies an uncured breach of this Contract, the State may terminate this Contract and seek such other remedies as may be available to it.
- 3.5 **POLITICAL SUBDIVISIONS.** Ohio political subdivisions, such as Ohio cities, counties, and townships ("Political Subdivisions"), may rely on this Contract. Whenever a Political Subdivision relies on this Contract to issue a purchase order, the Political Subdivision will step into the shoes of the State under this Contract for purposes of its order, and, as to the Political Subdivision's order, this Contract will be between the Contractor and the Political Subdivision. The Contractor must look solely to the Political Subdivision for performance, including but not limited to payment, and must hold the State harmless with regard to such orders and the Political Subdivision's performance. But the State will have the right to terminate this Contract and seek such remedies on termination as this Contract provides should the Contractor fail to honor its obligations under an order from a Political Subdivision. Nothing in this Contract requires the Contractor to accept an order from a Political Subdivision, if the Contractor reasonably believes that the Political Subdivision is or will be unable to perform its obligations in relation to that order.
- 3.6 **RECALLS.** If a Deliverable is recalled, seized, or embargoed, or if the Contractor, a manufacturer, packer, processor, or regulatory body finds that a Deliverable has been misbranded, adulterated, or is unsafe, the Contractor must notify the State, through the Department of Administrative Services, Office of State Purchasing, as well as all agencies that have ordered the Deliverable, within ten business days after the Contractor learns of any of the above events. At the option of the State, the Contractor must either reimburse the State for the purchase price of each affected Deliverable or provide an equal or better replacement for each Deliverable at no additional cost to the State. The Contractor also must remove and replace all affected Deliverables within a reasonable time, as determined by the State. Further, at the option of the State, the Contractor may be required to reimburse the State for storage costs and handling fees, which the State may calculate from the time of delivery of each affected Deliverable to the Deliverable's actual removal. Furthermore, the Contractor must bear all costs associated with the removal and proper disposal of the affected Deliverables. The State will treat any failure to refund the purchase price or provide a suitable replacement within a reasonable time, not to exceed 30 days, as a default.
- 3.7 **TERMINATION.** The State may terminate this Contract or any order under this Contract if the Contractor defaults in meeting its obligations and fails to timely cure its default. The State also may terminate this Contract or any order under it if a petition in bankruptcy is filed by or against the Contractor and not dismissed within 60 days. And the State may terminate this Contract or any order under it if the Contractor violates any law or regulation while performing under this Contract or if it appears to the State that the Contractor's performance is substantially endangered through no fault of the State. In all of the foregoing cases, the termination will be for cause.

On written notice, the Contractor will have 30 days to cure any breach of its obligations under this Contract, provided the breach is curable. If the Contractor fails to cure the breach within 30 days after written notice or if the breach is not one that is curable, the State will have the right to terminate this Contract, the applicable orders, or both immediately upon written notice to the Contractor. Some provisions of this Contract may provide for a shorter cure period than 30 days or for no cure period at all. Those provisions will prevail over this one. If a particular section does not state what the cure period will be, this provision will govern.

The State also may terminate this Contract in the case of breaches that are cured within 30 days but are persistent. "Persistent" in this context means that the State has notified the Contractor in writing of the Contractor's failure to meet any of its obligations two times. After the second such notice, the State may terminate this Contract without a cure period if the Contractor again fails to meet any obligation. The three defaults do not have to relate to the same obligation or type of failure.

The State also may terminate this Contract or any order under this Contract for its convenience and without cause. And the State may terminate this Contract or any order under it if the Ohio General Assembly fails to appropriate funds for any order under this Contract. Further, if a third party is providing funding for an order, the State also may terminate this Contract or any order under it should that third party fail to release any funds related to this Contract or an order under it.

Any notice of termination will be effective as soon as the Contractor receives it. On receipt of the notice of termination, the Contractor will immediately cease all work on any Deliverables affected by the termination and take all steps necessary to minimize any costs the Contractor will incur related to the affected orders. The Contractor also must immediately prepare a report and deliver it to the State. The report must detail all open orders at the time of termination.

If the State terminates this Contract or any order for cause, it will be entitled to cover for the affected orders by using another vendor or vendors on such commercially reasonable terms and conditions as it and the covering vendors may agree. The Contractor will be liable to the State for all costs related to covering for the affected orders to the extent that such costs exceed the costs that the State would have incurred under this Contract for those orders. The Contractor also will be liable for any other direct damages resulting from its breach of this Contract or other event leading to termination for cause.

If the termination is for the convenience of the State, the Contractor will be entitled to compensation for any Deliverable that the Contractor has delivered before the termination. Such compensation will be the Contractor's exclusive remedy in the case of termination for convenience and will be available to the Contractor only once the Contractor has submitted a proper invoice for such, with the invoice reflecting the amount the State determines that it owes the Contractor.

- 3.8 **EXCUSABLE DELAY.** Neither party will be liable for any delay in its performance under this Contract that arises from causes beyond its reasonable control and without its negligence or fault. The delayed party must notify the other promptly of any material delay in performance and must specify in writing the proposed revised performance date as soon as practicable after notice of delay. For any such excusable delay, the date of performance or delivery will be extended for a period equal to the time lost by reason of the excusable delay. The delayed party also must describe the cause of the delay and what steps it then is taking or will take to remove the cause. The delayed party may not rely on a claim of excusable delay to avoid liability for a delay if the party has not taken commercially reasonable steps to mitigate or avoid the delay.
- 3.9 **INDEPENDENT STATUS.** The parties will be acting as independent entities. The partners, employees, officers, directors, and agents of one party may only act in the capacity of representatives of that party and not as employees, officers, directors, or agents of the other party and will not be deemed as such for any purpose. Each party assumes full responsibility for the actions of its partners, employees, officers, directors, and agents while performing under this Contract and will be solely responsible for paying those people. Additionally, each party will be solely responsible for withholding and paying social security and income taxes, making workers' compensation contributions, paying disability benefits, and providing fringe benefits, if any, for its partners, employees, officers, directors, and agents, and neither party may legally bind the other party in any manner.
- 3.10 **LOCATION OF SERVICES AND DATA.** As part of this Contract, the Contractor must disclose the following:
  - (a) All locations where any services will be performed;
  - (b) All locations where any State data applicable to the Contract will be maintained or made available; and
  - (c) The principal place of business for the Contractor and all its subcontractors.

The Contractor may not change any location where any services are performed to a location outside the country of the original location or change any location where the data is maintained or made available to any other location outside the country of the original location without prior written approval of the State, which the State will not be obligated to provide.

#### 4 - DELIVERY AND ACCEPTANCE

- 4.1 **ACCEPTANCE.** The acceptance procedure for Deliverables will be an informal review by the agency acquiring the Deliverables to ensure that each Deliverable meets the warranties in this Contract. The State will have up to 30 days after installation to do this. The State will not issue a formal letter of acceptance, and passage of 30 days will imply acceptance, though the State will issue a notice of noncompliance if a Deliverables does not meet the warranties in this Contract.

If the State issues a noncompliance letter, the Contractor will have 30 days to correct the problems listed in the letter. If the Contractor fails to do so, the Contractor will be in default without a cure period. If the State has issued a noncompliance letter, the Deliverable will not be accepted until the State issues a letter of acceptance indicating that each problem noted in the noncompliance letter has been cured. If the problems have been fixed during the 30-day period, the State will issue the acceptance letter within 15 days after all defects have been fixed.

- 4.2 **TITLE.** Title to any Deliverable will pass to the State only on acceptance of the Deliverable, and all risk of loss will remain with the Contractor until title to the Deliverable passes to the State.
- 4.3 **DELIVERIES.** The Contractor must make all deliveries F.O.B. destination.

#### 5 - INTELLECTUAL PROPERTY

- 5.1 **COMMERCIAL MATERIAL.** As used in this section, "Commercial Material" means anything that the Contractor or a third party has developed at private expense and that is commercially available in the marketplace, subject to intellectual property rights, and readily susceptible to copying through duplication on magnetic media, paper, or other media. Examples include the written reports, books, pictures, videos, movies, computer programs, source code, and documentation.

Any Commercial Material that the Contractor intends to deliver as a Deliverable must have the scope of the license granted in such material disclosed in an Exhibit to this Contract, if that scope of license is different than the scope of license contained in this section for Commercial Materials.

Except for Commercial Material that is software ("Commercial Software"), if the Commercial Material is copyrighted and published material, then the State will have the rights permitted under the federal copyright laws for each copy of the Commercial Material delivered to it by the Contractor.

Except for Commercial Software, if the Commercial Material is patented, then the State will have the rights permitted under the federal patent laws for each copy of the Commercial Material delivered to it by the Contractor.

For Commercial Software, the State will have the following, perpetual rights, subject to the next paragraph. The State may:

- (1) Use and copy the Commercial Software for use in or with the computer or computers for which it was acquired, including use at any State installation to which such computer or computers may be transferred;
- (2) Use or copy the Commercial Software for use with a backup computer for disaster recovery and disaster recovery testing purposes or if any computer for which it was acquired is inoperative;
- (3) Reproduce the Commercial Software for archival, image management, and backup purposes;
- (4) Modify, adapt, and combine the Commercial Software with other computer software, provided that the modified, combined, and adapted portions of the derivative software incorporating any of the Commercial Software will be subject to same restrictions on use;
- (5) Disclose to and reproduce the Commercial Software for use on behalf of the State by support service contractors or their subcontractors, subject to the same restrictions on use; and
- (6) Use or copy the Commercial Software for use with a replacement computer.

In the case of any other scope of license (e.g., MIPs, tier, concurrent users, enterprise, site, or otherwise), the foregoing will apply except as expressly modified by the applicable license description, which must be incorporated as part of Exhibit I. If the Contractor provides greater license rights in an item included in Exhibit I to its general customer base for the Software's list price, those additional license rights also will be provided to the State without additional cost or obligation. No license description may reduce the rights in items 1 through 6 above; it may only define the extent of use, if the use is other than a CPU license.

The State will treat any Commercial Software as Confidential Information, in accordance with the requirements of the Confidential Information section of this Contract, if the Commercial Software is clearly and conspicuously labeled as confidential or secret.

**5.2 CUSTOM DELIVERABLES.** All custom work done by the Contractor and covered by this Contract will belong to the State, with all rights, title, and interest in all intellectual property that comes into existence through the Contractor's work under this Contract being assigned to the State. Additionally, the Contractor waives any shop rights, author rights, and similar retained interests in any such custom developed materials. The Contractor must provide the State with all assistance reasonably needed to vest such rights of ownership in the State. However, the Contractor will retain ownership of all tools, methods, techniques, standards, and other development procedures, as well as generic and preexisting shells, subroutines, and similar material incorporated in any custom Deliverable ("Pre-existing Materials").

The Contractor grants the State a worldwide, non-exclusive, royalty-free, perpetual license to use, modify, sell, and otherwise distribute all Pre-existing Materials that are incorporated in any custom-developed Deliverable. The Contractor may not include in any custom Deliverable any intellectual property unless such has been created under this Contract or qualifies as Pre-existing Material. If the Contractor wants to incorporate any Pre-existing materials in a custom Deliverable, the Contractor must disclose that desire to the State and obtain written approval from the State for doing so in advance. On the request of the Contractor, the State will incorporate any proprietary notice that Contractor may reasonably want for any Pre-existing Materials included in a custom Deliverable in all copies the State makes of that Deliverable.

Subject to the limitations and obligations of the State with respect to Pre-existing Materials, the State may make all custom Deliverables available to the general public without any proprietary notices of any kind.

**5.3 CONFIDENTIALITY.** The State may disclose to the Contractor written material or oral or other information that the State treats as confidential ("Confidential Information"). Title to the Confidential Information and all related materials and documentation the State delivers to the Contractor will remain with the State. The Contractor must treat such Confidential Information as secret if it is so marked, otherwise identified as such, or when, by its very nature, it deals with matters that, if generally known, would be damaging to the best interests of the public, other contractors or potential contractors with the State, or individuals or organizations about whom the State keeps information. The Contractor may not disclose any Confidential Information to third parties and must use it solely to perform under this Contract.

If any Deliverables contain data, documentation, or other written information that is confidential in nature and properly labeled as such, then it also will be Confidential Information for purposes of this section. The State will keep all such Confidential Information in confidence and will not use it other than as authorized under this Contract. Nor will the State disclose any such Confidential Information to any third party without first obligating the third party to maintain the secrecy of the Confidential Information.

If one party discloses Confidential Information ("Disclosing Party") to the other party to this Contract ("Receiving Party"), the Receiving Party's obligation to maintain the confidentiality of the Confidential Information will not apply where such:

- (1) Was already in the possession of the Receiving Party without an obligation of confidence;
- (2) Is independently developed by the Receiving Party, provided documentary evidence exists to support the independent development;
- (3) Except as provided in the next paragraph, is or becomes publicly available without a breach of this Contract;
- (4) Is rightfully received by the Receiving Party from a third party without an obligation of confidence;
- (5) Is disclosed by the Receiving Party with the written consent of the Disclosing Party; or
- (6) Is released under a valid order of a court or governmental agency, provided that the Receiving Party:
  - (a) Notifies the Disclosing Party of the order immediately upon receipt of it; and
  - (b) Makes a reasonable effort to obtain a protective order from the issuing court or agency limiting the disclosure and use of the Confidential Information solely for the purposes intended to be served by the original order of production.

Information that may be available publicly through other sources about people that is personal in nature, such as medical records, addresses, phone numbers, social security numbers, and similar things are nevertheless sensitive in nature and may not be disclosed or used in any manner except as expressly authorized in this Contract. Therefore, item (3) in the preceding paragraph does not apply, and the Contractor must treat such information as Confidential Information whether it is available elsewhere or not.

Except for Confidential Information that the Contractor delivers to the State and that is part of a Deliverable or necessary for the proper use or maintenance of a Deliverable, the Receiving Party must return all originals of any Confidential Information and destroy any copies it has made on termination or expiration of this Contract.

The disclosure of the Confidential Information of the Disclosing Party in a manner inconsistent with the terms of this provision may cause the Disclosing Party irreparable damage for which remedies other than injunctive relief may be inadequate, and each Receiving Party agrees that in the event of a breach of the Receiving Party's obligations hereunder, the Disclosing Party will be entitled to temporary and permanent injunctive relief to enforce the provisions of this Contract without the necessity of proving actual damages. However, provision does not diminish or alter any right to claim and recover damages.

- 5.4 **USE OF NAME.** The Contractor may not publicize that it is doing business with the State or use this Contract or the Contractor's relationship with the State as a marketing or sales tool, unless the State agrees otherwise in writing. The State has no obligation to agree to any such advertising, publicity, sales, or marketing activities.

#### 6 – TRANSACTION REPORTING

- 6.1 **Contractor's SALES REPORT.** The Contractor must report the quarterly dollar value (in US currency rounded to the nearest whole dollar) of the sales under this Contract each calendar quarter (i.e., January-March, April-June, July-September and October-December). The dollar value of the sales reported must equal the price paid by all State agencies and Political Subdivisions for Deliverables under this Contract during the reporting period.

The Contractor must report the quarterly dollar value of sales to the State via the Internet using the Web form at the Department of Administrative Services, OIT vendor portal, <https://cm.ohio.gov>. If no sales occur, the Contractor must show zero sales on the report. The report must be submitted 30 days after the completion of the reporting period.

The Contractor also must submit a closeout report within 120 days after the expiration of this Contract. The Contract expires on the physical completion of the last, outstanding task or delivery order of the Contract. The closeout report must cover all sales not shown in the final quarterly report and reconcile all errors and credits. If the Contractor reported all Contract sales and reconciled all errors and credits on the final quarterly report, then the Contractor should show zero sales in the closeout report.

If the Contractor fails to submit any sales report in a timely manner or falsifies any sales report, the State may terminate this Contract for cause.

- 6.2 **Contractor's REVENUE SHARE.** The Contractor must pay the State a share of the sales transacted under this Contract. The Contractor must remit the revenue share in US dollars within 30 days after the end of the quarterly reporting period. The revenue share that the Contractor must pay equals .0075 of the total quarterly sales reported. The revenue share is included in the prices reflected on Exhibit I and reflected in the total amount charged to ordering activities, and the Contractor may not add a surcharge to orders under this Contract to cover the cost of the revenue share.

The Contractor must remit any amount due as the result of a quarterly or closeout report at the time the quarterly or closeout report is submitted to the Department of Administrative Services, Office of State Purchasing. The Contractor also must pay the revenue share by check. To ensure the payment is credited properly, the Contractor must identify the check as a "Revenue Share" and include the applicable State Term Contract Number, total report amount, and reporting period covered.

The Contractor must make each check payable to "Treasurer, State of Ohio", and forward it to the following address:

Department of Administrative Services  
GSD Business Office  
4200 Surface Road  
Columbus, OH 43228

If the full amount of the revenue share is not paid within 30 days after the end of the applicable reporting period, the non-payment will constitute a contract debt to the State. The State may setoff any unpaid revenue share from any amount owed to the Contractor under this Contract and employ all other remedies available to it under Ohio law for the non-payment of the revenue share. Additionally, if the Contractor fails to pay the revenue share in a timely manner, the failure will be a breach of this Contract, and the State may terminate this Contract for cause and seek damages for the breach.

#### 7 - WARRANTIES AND LIABILITIES

- 7.1 **WARRANTIES.** The Contractor warrants that the recommendations, guidance, and performance of the Contractor and all Deliverables under this Contract will:

- (a) Be in accordance with the sound professional standards and the requirements of this Contract and without any material defects;
- (b) Not infringe on the intellectual property rights of any third party;
- (c) Be the work solely of the Contractor, unless otherwise provided in this Contract; and
- (d) Be merchantable and fit for the particular purpose for which the Deliverables were acquired.

Additionally, with respect to the Contractor's activities under this Contract, the Contractor warrants that:

- (a) The Contractor has the right to enter into this Contract;
- (b) The Contractor has not entered into any other contracts or employment relationships that restrict the Contractor's ability to perform under this Contract;
- (c) The Contractor will observe and abide by all applicable laws and regulations, including those of the State regarding conduct on any premises under the State's control;
- (d) The Contractor has good and marketable title to any products delivered under this Contract and in which title passes to the State; and
- (e) The Contractor has the right and ability to grant the license provided in any Deliverable in which title does not pass to the State.

If any work of the Contractor or any Deliverable fails to comply with these warranties, and the Contractor is so notified in writing, the Contractor must correct such failure with all due speed, not to exceed 30 days, or refund the amount of the compensation paid for the Deliverable. The Contractor also must indemnify the State for any direct damages and any claims by third parties based on any breach of these warranties.

**7.2 SOFTWARE WARRANTY.** If Exhibit I includes work to develop custom software as a Deliverable, then on delivery and for one year after the date of acceptance of any Deliverable that includes custom software, the Contractor warrants that:

- (a) The software will operate on the computer(s) for which the software is intended in the manner described in the relevant software documentation;
- (b) The software will be free of material defects;
- (c) The Contractor will deliver and maintain relevant and complete software documentation, commentary, and source code;
- (d) The source code language used to code the software is readily available in the commercial market, widely used and accepted for the type of programming involved, and support programming in the language is reasonably available in the open market; and
- (e) The software and all maintenance will be provided in a professional, timely, and efficient manner.

For Commercial Software developed by the Contractor or licensed from a third party, the Contractor represents and warrants that it either has the right or has obtained a binding commitment from the third party licensor to make the following warranties and commit to the following maintenance obligations. During the warranty period described in the next paragraph, the Contractor must:

- (a) Maintain or cause the third-party licensor to maintain the Commercial Software so that it operates in the manner described in its documentation;
- (b) Supply technical bulletins and updated user guides;
- (c) Supply the State with all updates, improvements, enhancements, and modifications to the Commercial Software and documentation and, if available, the commentary and the source code;
- (d) Correct or replace the software and remedy any material programming error that is attributable to the Contractor or the third-party licensor; and
- (e) Maintain or obtain a commitment from the third-party licensor to maintain the Commercial Software so that it will properly operate in conjunction with changes in the operating environment for which it was designed.

For Commercial Software designed for mainframe platforms and for Commercial Software designed for PC or PC-based servers and costing more than \$10,000.00 per license or per copy, the warranty period will be the longer of one year after acceptance or the licensor's standard warranty period. For Commercial Software designed for PC or PC-based servers and costing less than \$10,000.00 per license or per copy, the warranty period will be the longer of three months after acceptance or the licensor's standard warranty period. For PC and PC-based servers, the warranty will not include updates, improvements, enhancements, or modifications to the Commercial Software and documentation, if such are not provided as part of the licensor's standard warranty or license fee.

Software documentation means well written, readily understood, clear, and concise instructions for the software's users as well as a system administrator. The software documentation must provide the users of the software with meaningful instructions on how to take full advantage of all of the capabilities designed for end users. It also means installation and system administration documentation for a system administrator to allow proper control, configuration, and management of the software. Source code means the uncompiled operating instructions. The

Contractor must provide the source code in the language in which it was written and must include such commentary or annotations as would allow a competent programmer proficient in the source language to readily interpret the source code and understand the purpose of all routines and subroutines contained within the source code.

- 7.3 **EQUIPMENT WARRANTY.** If any computer hardware or other type of electrical equipment ("Equipment") will be a part of any Deliverable, the following warranties apply. The Contractor warrants that the Equipment fully complies with all government environmental and safety standards applicable to the Equipment. The Contractor also warrants for the warranty period described in the next paragraph that the Equipment will perform substantially in accordance with its user manuals, technical materials, and related writings published by the manufacturer with respect to such Equipment, and that such Equipment will achieve any function described in such writings. The foregoing warranty will not apply to Equipment that the State modifies or damages after title passes to it. The warranty period for all Equipment will be the longer of one year after the State accepts the Equipment or the Contractor's standard warranty period.

If any Equipment does not meet the above warranties during the applicable warranty period, the Contractor must fix the nonconforming Equipment so it performs substantially in accordance with its user manuals, technical materials, and related publications, replace the Equipment, or grant the State a refund equal to the amount it paid for the Equipment. The Contractor must either fix or replace the Equipment or refund the purchase price to the State with all due speed, not to exceed seven days in the case of a fix or a replacement or 30 days in the case of a refund. The Contractor will be responsible for all shipping costs associate with fixing, replacing, or returning any defective equipment.

- 7.4 **INDEMNITY.** The Contractor must indemnify the State against all liability or expense resulting from bodily injury to any person (including injury resulting in death) or damage to property arising out of its performance under this Contract, provided such bodily injury or property damage is due to the negligence or other tortious conduct of the Contractor, its employees, agents, or subcontractors. The Contractor also must indemnify the State against any claim of infringement of a copyright, patent, trade secret, or other intellectual property rights based on the State's proper use of any Deliverable under this Contract. This obligation of indemnification will not apply where the State has modified the Deliverable and the claim of infringement is based on the modification. The State will give the Contractor notice of any such claim as soon as reasonably practicable. If a successful claim of infringement is made, or if the Contractor reasonably believes that an infringement claim that is pending may actually succeed, the Contractor will do one of the following four things:

- (a) Modify the Deliverable so that it is no longer infringing;
- (b) Replace the Deliverable with an equivalent or better item;
- (c) Acquire the right for the State to use the Deliverable as it was intended for the State to use under this Contract; or
- (d) Remove the Deliverable and refund the fee the State paid for the Deliverable and the fee for any other Deliverable that required the availability of the infringing Deliverable for it to be useful to the State.

- 7.5 **LIMITATION OF LIABILITY.** NOTWITHSTANDING ANYTHING TO THE CONTRARY CONTAINED IN THIS CONTRACT OR ANYTHING INCORPORATED BY REFERENCE INTO THIS CONTRACT, THE PARTIES AGREE AS FOLLOWS:

- (a) NEITHER PARTY WILL BE LIABLE FOR ANY INDIRECT, INCIDENTAL, OR CONSEQUENTIAL LOSS OR DAMAGE OF ANY KIND, INCLUDING BUT NOT LIMITED TO LOST PROFITS, EVEN IF THE PARTIES HAVE BEEN ADVISED, KNEW, OR SHOULD HAVE KNOWN OF THE POSSIBILITY OF SUCH DAMAGES.
- (b) THE CONTRACTOR WILL BE LIABLE FOR ALL DIRECT DAMAGES DUE TO THE FAULT OR NEGLIGENCE OF THE CONTRACTOR OR ITS BREACH OF ANY PROVISION OF THIS CONTRACT.

## 8 - MAINTENANCE

- 8.1 **SOFTWARE MAINTENANCE.** If this Contract involves any custom software as a Deliverable, then during the warranty period, the Contractor must correct any material programming errors that are attributable to the Contractor within a reasonable time, provided the State notifies the Contractor, either orally or in writing, of a problem with the software and provides sufficient information to identify the problem. The Contractor's response to a programming error will depend upon the severity of the problem. In the case of programming errors that slow the processing of data by a small degree, render minor and non-critical functions of the System inoperable or unstable, or require users or administrations to employ workarounds to fully use the software, the Contractor must respond to requests for resolution within four business hours and begin working on a proper solution within one business day, dedicating the resources of one qualified programmer full-time to fixing the problem. In the case of any defects with more significant consequences, including those that render key functions of the software inoperable

or significantly slow data processing, the Contractor must respond within two business hours of notification and, if requested, provide on-site assistance and dedicate all available resources to resolving the problem. For Commercial Software other than PC or PC-based server software costing less than \$10,000.00 per copy or license, the Contractor must provide maintenance during the warranty period at no cost to the State. At a minimum, that maintenance must be the standard maintenance program that the licensor, whether the Contractor or a third party, normally provides to its client base. That maintenance program must include all new releases, updates, patches, and fixes to the Commercial Software. It also must include a commitment to keep the software current with the operating environment in which it is designed to function and a commitment to promptly correct all material defects in the software.

Additionally, the Contractor will make (or obtain a commitment from the third-party licensor to make) maintenance available for the software for at least five years after the warranty period. If the licensor, whether it is the Contractor or a third-party, is unable to provide maintenance during that period, then the licensor must do one of the following things: (a) give the State a *pro rata* refund of the license fee based on a five-year useful life; or (b) release the source code for the software to the State for use by the State solely for the purpose of maintaining any copies of the software for which the State has a proper license. The State will treat the source code as Confidential Information under the Confidentiality Section of this Contract. In the case of third-party Commercial Software, the Contractor warrants that it has legally bound the third-party licensor to the obligations of this Contract or that the Contractor has the right to make these commitments directly to the State.

For Commercial Software designed for PC or PC-based server platforms and costing less than \$10,000.00 per copy or license, the Contractor must provide the same maintenance and user assistance during the warranty period at no additional cost to the State as the Contractor or the third-party licensor makes generally available at no additional charge to its other customers.

**8.2 SOFTWARE UPGRADES.** After an initial acquisition of a license in Commercial Software, the State may want to acquire a broader license than the original. Or the State may later want to migrate to another platform for the Commercial Software. When the Contractor or third-party licensor make the broader license generally available to its customer base or makes the version of the Commercial Software that runs on the new platform to which the State wants to migrate, then the State will have a right to upgrade any of its licenses to that broader license or to acquire the version of the Software that is appropriate for the new platform that the State intends to use. In these cases, the Contractor will provide the broader license or other version of the Commercial Software in exchange for a license fee that is based on the lesser of the following:

- (a) The Contractor's (or third party licensor's) standard upgrade or migration fee;
- (b) The upgrade or migration fee in Exhibit I; or
- (c) The difference between the license fee originally paid and the then-current license fee for the license or version of the Commercial Software that the State seeks to acquire.

The foregoing will not apply to Commercial Software for PCs and PC-based server software with a license fee of less than \$10,000.00, unless the Contractor or third-party licensor makes upgrade packages available for the Commercial Software to other customers. If PC or PC-based server software upgrades are available, the State will be entitled to the most favorable license fee on which such are made available to other most favored customers or dealers, as appropriate.

**8.3 EQUIPMENT MAINTENANCE.** If this Contract involves computer or telecommunications hardware or other mechanical or electrical equipment ("Equipment") as a Deliverable, then, during the warranty period and during any period covered by annual maintenance, the Contractor must provide maintenance to keep the Equipment in or restore the Equipment to good working order. This maintenance must include preventative and remedial maintenance, installation of safety changes, and installation of engineering changes based upon the specific needs of the individual item of Equipment. This maintenance also must include the repair, replacement, or exchange deemed necessary to keep the Equipment in good working order. For purposes of this Contract, Equipment restored to good working order means Equipment that performs in accordance with the manufacturer's published specifications. The Contractor must use its best efforts to perform all fault isolation and problem determination attributed to the Equipment. The following services are outside the scope of this Contract:

- (a) Maintenance to bring the Equipment into compliance with any law, rule, or regulation, if such law, rule, or regulation was not in effect on the acceptance date;
- (b) Repair and replacement work or increase in maintenance time as a result of damage or loss resulting from accident, casualty, neglect, misuse, or abuse, if such is the State's fault (and beyond normal wear and tear), damage resulting from improper packing or failure to follow prescribed shipping instruction (If such is done by the State), failure of electrical power, air conditioning or humidity control, use of supplies not approved by the original manufacturer of the Equipment as describe in the Equipment's documentation, or causes other than ordinary use of Equipment;

- (c) Furnishing platens, supplies, or accessories, making specification changes, or adding or removing approved accessories, attachments, or other devices except as permitted in the Equipment's user documentation;
- (d) Maintenance or increased maintenance time resulting from any improper use, maintenance, or connection to other equipment (not done by the Contractor) that results in damage to the Equipment;
- (e) Repairs needed to restore the Equipment to good operating condition if the Equipment has been damaged by anyone other than the Contractor's authorized service personnel repairing, modifying, or performing maintenance on the Equipment.

**8.4 EQUIPMENT MAINTENANCE STANDARDS.** Except in the case of excusable delay, remedial Equipment maintenance by the Contractor will be completed within eight business hours after notification by the State that maintenance is required. In the case of preventative maintenance, the Contractor will perform such in accordance with the manufacturer's published schedule and specifications. If maintenance is not completed within eight hours after notification by the State, the Contractor will be in default. Failure of the Contractor to meet or maintain these requirements will provide the State with the same rights and remedies as specified elsewhere in this Contract for default, except that the Contractor will only have eight hours to remedy a default. The Contractor will provide adequate staff to provide the maintenance required by this Contract.

**8.5 EQUIPMENT MAINTENANCE CONTINUITY.** If the Contractor is unable to provide Equipment maintenance to meet the State's ongoing performance requirements and if, in the State's sole opinion, the Contractor is unlikely to resume providing warranty services that meets the State's ongoing performance requirement, the Contractor will be in default, and the State will be entitled to the remedies in the default section of this Contract. The State will also be entitled to the following items from the Contractor:

- (a) All information necessary for the State to perform the maintenance, including but not limited to logic diagrams, maintenance manuals, and system and unit schematics, with all changes noted;
- (b) A listing of suppliers capable of supplying necessary spare parts;
- (c) Adequate information to permit the State to have spare parts manufactured elsewhere; and
- (d) A listing of spare parts and their recommended replacement schedule to enable the State to create a centralized inventory of spare parts.

The State will treat as Confidential Information in accordance with the Confidentiality Section of this Contract any information in items (a) through (d) above that the Contractor rightfully identifies in writing as confidential. And when disclosure to a third-party is necessary for the State to continue the maintenance, the State will require any third-party to whom disclosure is made to agree to hold the Confidential Information in confidence and to make no further disclosure of it. Further, the State agrees that any such Confidential Information will be used solely to perform maintenance for the State and will be returned to the Contractor or destroyed when such use is no longer needed.

**8.6 PRINCIPAL PERIOD OF MAINTENANCE (GENERAL).** Software and Equipment maintenance must be available nine working hours per weekday, between 8:00 a.m. and 5:00 p.m. Eastern Standard Time. Travel time and expenses related to remedial and preventative maintenance will not be billable and must be included in the price of the maintenance.

**8.7 MAINTENANCE ACCESS (GENERAL).** For all Software and Equipment maintenance under this Contract, the State will provide the Contractor with reasonable access to the Deliverable to perform maintenance. All maintenance that requires a Deliverable to be inoperable must be performed outside the State's customary working hours, except when the Deliverable is already inoperable. Preventative or scheduled maintenance must be performed at mutually agreeable times, within the parameters of the manufacturer's published schedule.

## 9 - ASSIGNMENT AND SUBCONTRACTING

**9.1 ASSIGNMENT.** The Contractor may not assign this Contract without the written consent of the State, which the State will not be obligated to provide.

**9.2 SUBCONTRACTING.** The State recognizes that it may be necessary for the Contractor to use subcontractors to perform portions of the work under this Contract. In those circumstances, before the Contractor engages any such subcontractor, the Contractor must submit a list identifying its subcontractors or joint venture partners performing portions of the work under the Contract. If any changes to that list occur during the term of the Contract, the Contractor must immediately provide the State an updated list of subcontractors or joint venture business partners. In addition, all subcontractors and joint venture business partners must agree in writing to be bound by all of the terms and conditions of this Contract and any specifications of any order under this Contract for which they perform work. The State may reject any subcontractor submitted by the Contractor.

## 10 – CONSTRUCTION

- 10.1 HEADINGS.** The headings used in this Contract are for convenience only and may not be used in interpreting this Contract.
- 10.2 ENTIRE DOCUMENT.** This Contract, which includes the Contractor's pricelist attached as Exhibit I and all documents referred to in this Contract, constitutes the entire agreement between the parties with respect to the subject matter and supersedes any previous agreements, whether oral or written.
- 10.3 BINDING EFFECT.** This Contract will be binding on and benefit the respective successors and assigns of the State and the Contractor.
- 10.4 AMENDMENTS – WAIVER.** No amendment or modification of this Contract will be effective unless it is in writing and signed by both parties. The failure of either party at any time to demand strict performance by the other party of any of the terms or conditions of this Contract may not be construed as a waiver of any those terms or conditions, and either party may at any time demand strict and complete performance by the other party.
- 10.5 SEVERABILITY.** If a court of competent jurisdiction finds any provision of this Contract to be unenforceable, the remaining provisions of this Contract will remain in full force and affect.
- 10.6 CONSTRUCTION.** This Contract must be construed in accordance with the plain meaning of its language and neither for nor against the drafting party.
- 10.7 NOTICES.** For any notice under this Contract to be effective, the noticing party must make it in writing and sent it to the address of the other party first appearing above, unless that party has notified the other party, in writing and in accordance with the provisions of this section, of a new mailing address for the receipt of notices. This notice requirement will not apply to any notices that this Contract expressly authorizes to be made orally.
- 10.8 CONTINUING OBLIGATIONS.** Any terms, conditions, representations, or warranties contained in this Contract that must survive termination or expiration of this Contract to be fully effective will survive the termination or expiration of the Contract. Additionally, termination or expiration of this Contract will not affect the State's right to continue to use any Deliverable for which it has paid, including licensed material. And no termination or expiration of the Contract will affect the State's right to receive maintenance, warranty work, or other services for which the State has paid.
- 10.9 PRIORITY.** If there is any inconsistency or conflict between this document and any provision of anything incorporated by reference, this document will prevail.
- 10.10 DAYS.** When this Contract refers to days, it means calendar days, unless it expressly provides otherwise.

## 11 - LAW AND COURTS

- 11.1 EEO.** The Contractor must comply with all Ohio laws regarding equal employment opportunity, including among others Code § 125.111, as well as all related Executive Orders of the Governor of Ohio.
- 11.2 DRUG FREE WORKPLACE.** The Contractor must comply with all Ohio laws regarding maintaining a drug-free workplace and make a good faith effort to ensure that all its employees do not possess and are not under influence of illegal drugs or alcohol or abuse prescription drugs while working on State property.
- 11.3 OHIO ETHICS LAW AND LIMITS ON POLITICAL CONTRIBUTIONS.** The Contractor certifies that it is currently in compliance and will continue to adhere to the requirements of the Ohio ethics laws. In accordance with Executive Order 2007-01S, the Contractor, by signature on this document, certifies: (1) it has reviewed and understands Executive Order 2007-01S, (2) has reviewed and understands the Ohio ethics and conflicts of interest laws, and (3) will take no action inconsistent with those laws and this order. The Contractor understands that failure to comply with Executive Order 2007-01S is, in itself, grounds for termination of this Contract and may result in the loss of other contracts or grants with the State. The Contractor hereby certifies that all applicable parties listed in Division (I)(3) or (J)(3) of Ohio Revised Code Section 3517.13 are in full compliance with Divisions (I)(1) and (J)(1) of Ohio Revised Code Section 3517.13.
- 11.4 SECURITY & SAFETY RULES.** When using or possessing State data or accessing State networks and systems, the Contractor must comply with all applicable State rules, policies, and regulations regarding data security and integrity. And when on any property owned or controlled by the State, the Contractor must comply with all security and safety rules, regulations, and policies applicable to people on those premises.

11.5 **LAW AND VENUE.** This Contract is governed by and will be construed under Ohio law, and venue for all disputes will lie exclusively with the appropriate court in Franklin County, Ohio.

11.6 **UNRESOLVED FINDINGS.** The Contractor represents that it is not subject to an unresolved finding for recovery under Code § 9.24. If this warranty proves false when the parties sign this Contract, the Contract will be void. Additionally, if this representation proves false on the date of any renewal or extension of the Contract, the renewal or extension will be void.

11.7 **TERROR DECLARATION.** In accordance with R.C. 2909.33(C), Contractor certifies that it meets one of the following conditions:

(a) Contractor has not received, nor will receive as a result of this contract, an aggregate amount greater than one hundred thousand dollars (\$100,000) in business or funding, excluding personal benefits, from the state, instrumentalities, or political subdivisions during the current fiscal year;  
or

(b) (1) Contractor has received, or will receive as a result of this contract, an aggregate amount greater than one hundred thousand dollars (\$100,000) in business or funding, excluding personal benefits, from the state, instrumentalities, or political subdivisions during the current fiscal year.  
and,

(2) Contractor has either precertified with the Office of Budget and Management, or has completed the attached Declaration of Material Assistance form certifying that Contractor has not provided material assistance to any organization on the Terrorist Exclusion List, as that term is defined in R.C. 2909.21.

11.7 **ANTITRUST.** The State and the Contractor recognize that, in actual economic practice, overcharges resulting from antitrust violations are usually borne by the State. The Contractor therefore assigns to the State all state and federal antitrust claims and causes of action that the Contractor has or acquires relating to the goods and services acquired under this Contract.

11.8 **Executive Order 2010-09S Affirmation and Disclosure Instructions.**

Contractor hereby represents and warrants that Contractor, and any subcontractor will not, as a part of the contract with the State, provide any of its services outside the United States, and that Contractor has truthfully disclosed the following:

1. The location(s) where all services will be performed by Contractor and any subcontractor;
2. If applicable, the location(s) where any state data associated with any of the provided services will be accessed, tested, maintained, backed-up or stored; and
3. The principal location(s) of business for the Contractor and any subcontractors providing the services to the State.

As part of the above disclosure and affirmation requirement, the Contractor must complete the Affirmation and Disclosure Form (Exhibit II). In addition, Contractor agrees to the following:

1. **EXECUTIVE ORDER REQUIREMENTS:**

The Contractor affirms to have read and understands Executive Order 2010-09S issued by Ohio Governor Ted Strickland and shall abide by those requirements in the performance of this Contract, and shall perform no services required under this Contract outside of the United States. The Executive Order is provided as an attachment and also is available at the following website:  
(<http://www.governor.ohio.gov/Default.aspx?tabid=1495>).

The Contractor also affirms, understands, and agrees to immediately notify the State of any change or shift in the location(s) of services performed by the Contractor or its subcontractors under this Contract, and no services shall be changed or shifted to a location(s) that are outside of the United States.

**2. TERMINATION, SANCTION, DAMAGES:**

If Contractor or any of its subcontractors perform services under this Contract outside of the United States, the performance of such services shall be treated as a material breach of the Contract. The State is not obligated to pay and shall not pay for such services. If Contractor or any of its subcontractors perform any such services, Contractor shall immediately return to the State all funds paid for those services. The State may also recover from the Contractor all costs associated with any corrective action the State may undertake, including but not limited to an audit or a risk analysis, as a result of the Contractor performing services outside the United States.

The State may, at any time after the breach, terminate the Contract, upon written notice to the Contractor. The State may recover all accounting, administrative, legal and other expenses reasonably necessary for the preparation of the termination of the Contract and costs associated with the acquisition of substitute services from a third party.

If the State determines that actual and direct damages are uncertain or difficult to ascertain, the State in its sole discretion may recover a payment of liquidated damages in the amount of [insert percent here] of the value of the Contract.

The State, in its sole discretion, may provide written notice to Contractor of a breach and permit the Contractor to cure the breach. Such cure period shall be no longer than 21 calendar days. During the cure period, the State may buy substitute services from a third party and recover from the Contractor any costs associated with acquiring those substitute services.

Notwithstanding the State permitting a period of time to cure the breach or the Contractor's cure of the breach, the State does not waive any of its rights and remedies provided the State in this Contract, including but not limited to recovery of funds paid for services the Contractor performed outside of the United States, costs associated with corrective action, or liquidated damages.

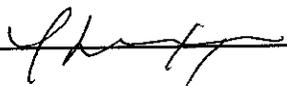
**3. ASSIGNMENT / DELEGATION:**

The Contractor will not assign any of its rights, nor delegate any of its duties and responsibilities under this Contract, without prior written consent of the State. Any assignment or delegation not consented to may be deemed void by the State.

To SHOW THEIR AGREEMENT, the parties have executed this Contract on the date(s) identified below, and this Contract will be effective as of the date it is signed on behalf of the State.

CONTRACTOR

STATE OF OHIO,  
DEPARTMENT OF ADMINISTRATIVE SERVICES  
OFFICE OF STATE PURCHASING

BY: \_\_\_\_\_  


BY: Robert Blair  
ROBERT BLAIR, DIRECTOR  
DEPARTMENT OF ADMINISTRATIVE SERVICES

DATE: 6/2/11

DATE: 6.9.11

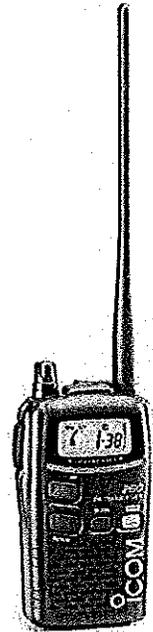
# FRS UHF FM TRANSCEIVER 4088A

## VERSIONS

4088A 15 Short Antenna Version

## FEATURES

Output Power: 1/2 Watt  
 Channels: 14  
 Other Features: 38 CTCSS frequencies  
 Easy to operate  
 Water resistant  
 Requires no license fees  
 High performance antenna  
 Built-in voice scrambler  
 Rechargeable Ni-Cd battery available  
 Requires 3 AA alkaline batteries (AA batteries not included)



Model	Description	Retail	GSA	20+	50+	100+	200+	400+
4088A 15	FRS with short antenna	\$ 157.00	\$ 98.52	\$ 93.59	\$ 90.64	\$ 88.67	\$ 86.70	\$ 85.71
Model	Description	Retail		GSA				
<b>Belt Clip</b>								
8930070790	Belt clip	\$ 6.94	\$ 5.34					
<b>Chargers (*This Item is Open Market)</b>								
AD-105	Adapter cup for BC119N	\$ 20.00	\$ 12.42					
BC-119N 01	117V Desktop Rapid Charger (requires AD105)	\$ 72.00	\$ 45.18					
BC-145SA 31	117V AC adapter for BC119N	\$ 25.00	\$ 9.66					
BC-149A 02*	117V wall charger for Ni-Cd batteries (Open Market)	\$ 50.00	\$ 31.38					
CP-18A	Cigarette lighter cable	\$ 37.00	\$ 22.78					
<b>Headsets (These Items are Open Market)</b>								
HS-51	Headset with PTT & VOX	\$ 125.00	\$ 78.44					
HS-85	Headset with VOX	\$ 125.00	\$ 78.44					
<b>Manuals</b>								
98814722	Owners manual	\$ 12.00	\$ 7.53					
97714833	Service manual	\$ 40.00	\$ 22.09					
<b>Speaker Microphones (*This Item is Open Market)</b>								
HM-46*	Slim-line speaker microphone; equipment with earphone jack (Open Market)	\$ 60.00	\$ 37.65					
HM-75A	Speaker microphone with remote control	\$ 86.00	\$ 53.15					
HM-128	Earphone-microphone with PTT switch that clips to lapel	\$ 30.00	\$ 18.83					
HM-131	Mic with earphone jack and revolving clip	\$ 45.00	\$ 28.24					

Prices are subject to change, corrections and pending GSA approvals.

GSA Contract #:  
GS-35F-0109L

# BASIC FUNCTION PORTABLES

## F3001 - F4001

### VERSIONS

Radio either comes with a Li-Ion battery or Ni-MH battery, depending on radio version

#### F3001

F3001 02 DTC 136-174 MHz, 16 channels, NI-MH battery with drop-in trickle charger in the box

F3001 03 RC 136-174 MHz, 16 channels, Li-Ion battery with rapid charger in the box

#### F4001

F4001 02/42 DTC 400-470 /450-512 MHz, 16 channels, Ni-MH battery with drop-in trickle charger in the box

F4001 03/43 RC 400-470 /450-512 MHz, 16 channels, Li-Ion battery with rapid charger in the box

### Features

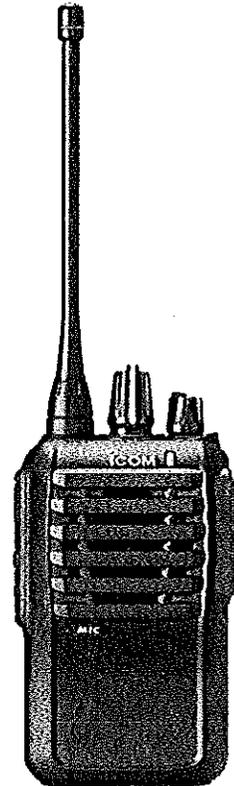
Output Power: 5W (VHF); 4W (UHF)  
Channels: 16  
Channel Spacing: 12.5/25 kHz, 15/30 kHz  
PLL Channel Spacing: 2.5, 3.125 (VHF); 5, 6.25 (UHF)  
Scan: Normal & priority  
Mil Spec: 810 C, D, E shock & vibration  
Programmable: PC with CS-F3001 software  
Weight: 11.6 oz (with BP-264N)  
Other Features: IP54 rating for dust protection and water resistance  
Three buttons  
Low battery alert with blinking LED and low battery beep  
Talk around function  
3-color OED (red, green, orange)  
Time out timer  
2-step power save  
Lone worker function

Included with radio: Antenna, battery, MB-124 belt clip, charger and owner's manual

### SIGNALING

2-tone, 5-tone, CTCSS/DTCS tone encoder/decoder standard

MDC1200 PTT ID and emergency



# F3001 - F4001 PRICING

Model	Description	Retail	GSA	20+	50+	100+	200+	400+
<b>Ni-MH Battery Versions</b>								
F3001 02 DTC	136-174 MHz, 12.5/25 kHz channel spacing, 16 channels (includes radio, antenna, BP-264 battery, BC-192 drop-in trickle charger , belt clip and owners manual)	\$ 199.00	\$ 124.87	\$ 118.63	\$ 114.88	\$ 112.39	\$ 109.89	\$ 108.64
F4001 02 DTC	400-470 MHz, 12.5/25 kHz channel spacing, 16 channels (includes radio, antenna, BP-264 battery, BC-192 drop-in trickle charger , belt clip and owners manual)	\$ 199.00	\$ 124.87	\$ 118.63	\$ 114.88	\$ 112.39	\$ 109.89	\$ 108.64
F4001 42 DTC	450-512 MHz, 12.5/25 kHz channel spacing, 16 channels (includes radio, antenna, BP-264 battery, BC-192 drop-in trickle charger , belt clip and owners manual) (available in April 2010)	\$ 199.00	\$ 124.87	\$ 118.63	\$ 114.88	\$ 112.39	\$ 109.89	\$ 108.64
<b>Li-Ion Battery Versions</b>								
F3001 03 RC	136-174 MHz, 12.5/25 kHz channel spacing, 16 channels (includes radio, antenna, BP-265 battery, BC-193 rapid charger, belt clip and owners manual)	\$ 240.00	\$ 150.60	\$ 143.07	\$ 138.55	\$ 135.54	\$ 132.53	\$ 131.02
F4001 03 RC	400-470 MHz, 12.5/25 kHz channel spacing, 16 channels (includes radio, antenna, BP-265 battery, BC-193 rapid charger, belt clip and owners manual)	\$ 240.00	\$ 150.60	\$ 143.07	\$ 138.55	\$ 135.54	\$ 132.53	\$ 131.02
F4001 43 RC	450-512 MHz, 12.5/25 kHz channel spacing, 16 channels (includes radio, antenna, BP-265 battery, BC-193 rapid charger, belt clip and owners manual)	\$ 240.00	\$ 150.60	\$ 143.07	\$ 138.55	\$ 135.54	\$ 132.53	\$ 131.02

# F3001 - F4001 ACCESSORIES

Model	Description	Retail	GSA
<b>Antennas (*These Items are Open Market)</b>			
FA-SC25U*	Flexible Antenna for 400-430MHz UHF (Blue tip)	\$ 13.00	\$ 8.16
FA-SC25V*	Flexible Antenna for 136-155MHz VHF (Blue tip)	\$ 13.00	\$ 8.16
FA-SC55V*	Flexible Antenna for 146-174 MHz VHF (Red tip)	\$ 13.00	\$ 8.16
FA-SC57U*	Flexible Antenna for 440-470MHz UHF (Red tip)	\$ 13.00	\$ 8.16
FA-SC72U*	Flexible Antenna for 470-520MHz UHF (Green tip)	\$ 13.00	\$ 8.16
FA-SC56VS*	Stubby antenna 150-160MHz (red ring)	\$ 14.50	\$ 9.10
FA-SC56VS UPGRADE	Pull standard antenna and sub with FASC56VS	\$ 1.50	\$ 0.94
FA-SC57VS*	Stubby antenna 160-174MHz (green ring)	\$ 14.50	\$ 9.10
FA-SC57VS UPGRADE	Pull standard antenna and sub with FASC57VS	\$ 1.50	\$ 0.94
FA-SC73US*	Stubby antenna 450-470MHz (red ring)	\$ 14.50	\$ 9.10
FA-SC73US UPGRADE	Pull standard antenna and sub with FASC73US	\$ 1.50	\$ 0.94
FA-SC61UC	380-512 MHz (can be cut to tune to the center frequency you wish to set)	\$ 16.00	\$ 10.04
FA-SC61UC UPGRADE	Pull standard antenna and sub with FASC61UC	\$ 3.00	\$ 1.88
FA-SC61VC	136-174 MHz (can be cut to tune to the center frequency you wish to set)	\$ 16.00	\$ 10.04
FA-SC61VC UPGRADE	Pull standard antenna and sub with FASC61VC	\$ 3.00	\$ 1.88
<b>Batteries</b>			
BP-263	Alkaline battery case fits 6 AAA batteries (1W output power)	\$ 30.00	\$ 18.83
BP-264	7.2V / 1400 mAh Ni-MH battery	\$ 43.00	\$ 26.98
BP-265	7.4V / 1900 mAh Li-Ion battery	\$ 62.00	\$ 38.91
<b>Belt Clip</b>			
MB-124	Alligator belt clip (standard belt clip)	\$ 12.00	\$ 7.53
<b>Cables</b>			
OPC-515L	DC power cable - for use with BC119N (12-16V DC required)	\$ 23.00	\$ 14.43
<b>Chargers</b>			
BC-123SA 51	110V AC adapter for BC-192 (included with BC-192)	\$ 25.00	\$ 15.69
BC-123SE 52	220V AC adapter for BC-192	\$ 27.00	\$ 16.94
BC-191 12	110V rapid charger for BP-264. Will NOT charge Li-Ion battery.	\$ 72.00	\$ 45.18
BC-192 12	110V drop-in trickle charger (charges battery in approximately 15 hours)	\$ 36.00	\$ 22.59
BC-193 12	110V rapid charger for BP-265. Will NOT charge Ni-MH battery.	\$ 68.00	\$ 42.67
<b>Headsets</b>			
HS-94*	Ear-piece type headset (use with OPC-2004)	\$ 25.00	\$ 15.69
HS-95	Headset with boom mic (use with OPC-2004)	\$ 210.00	\$ 131.78
HS-97*	Earphone with throat mic (use with OPC-2004)	\$ 42.00	\$ 26.36
OPC-2004	VOX/PTT unit (requires headset)	\$ 30.00	\$ 18.83
<b>Manuals</b>			
TBD	Owners Manual	\$ 12.00	\$ 7.53
97715519	Service Manual	\$ 40.00	\$ 22.09
TBD	CD Service Manual	\$ 40.00	\$ 22.09
<b>Programming</b>			
CS-F3001	Programming Windows software	\$ 72.00	\$ 45.18
OPC-478	Programming cloning cable for PC to radio	\$ 52.00	\$ 32.44
OPC-478UC	Programming cloning cable (USB)	\$ 70.00	\$ 43.93
<b>Speaker Microphones</b>			
HM-153L	Heavy duty earphone-mic - two screw connector. Compact microphone with PTT switch clips to your lapel.	\$ 120.00	\$ 75.30
HM-158L	Speaker microphone with compact & durable body. Equipped with an earphone jack and a revolving clip.	\$ 47.00	\$ 29.49
HM-159L LG	Heavy duty speaker microphone with metal alligator clip and screw down L-shaped connector.	\$ 77.00	\$ 48.32
HM-166L	Earphone microphone - medium duty	\$ 50.00	\$ 31.38
<b>Installation Charges (Open Market)</b>			
INSTALLLM1234	Installation charge for 1-25 radios	\$ 40.00	\$ 25.10
INSTALLLM1234	Installation charge for 25-49 radios	\$ 40.00	\$ 18.83
INSTALLLM1234	Installation charge for 50+ radios	\$ 40.00	\$ 12.55
<b>Programming Charges (Open Market)</b>			
PROGLM1234	Programming charge for 1-25 radios	\$ 42.00	\$ 26.36
PROGLM1234	Programming charge for 25-49 radios	\$ 42.00	\$ 15.69
PROGLM1234	Programming charge for 50+ radios	\$ 42.00	\$ 10.67
<b>Extended Warranty (Open Market)</b>			
EXTWARR211	1 year extended warranty for a total of 3 years	\$ 25.00	\$ 15.69
EXTWARR212	2 years extended warranty for a total of 4 years	\$ 44.00	\$ 27.61
EXTWARR213	3 years extended warranty for a total of 5 years	\$ 62.00	\$ 38.91

Prices are subject to change, corrections and pending GSA approval.

GSA Contract #: GS-35F-0109L

# F3001 - F4001 PARTNER PRODUCTS

All Partner Products are Open Market.

Model	Description	Retail	Open Market
<b>Centurion Antennas</b>			
CEN EXD 400 MXI	Stubby antenna 400-430 MHz	\$ 14.00	\$ 8.79
CEN EXD 400 MXI UPGRADE	Pull standard antenna and sub CEN EXD 400 MXI	\$ 2.00	\$ 1.26
<b>Carrying Case</b>			
LCF3000	Leather case with swivel	\$ 50.00	\$ 31.38
NCF3000	Nylon case with clip	\$ 30.00	\$ 18.83
<b>Otto Accessories</b>			
Otto E1EB2CC131	Vireo 1-wire ear bud with in line mic/PTT	\$ 10.00	\$ 6.28
<b>Listen Only</b>			
Otto V1-10432	Earpiece to use with Otto speaker mics - right angle plug	\$ 48.00	\$ 30.12
Otto V1-EH22R131	D-hanger style piece to use with Otto speaker mics - right angle plug	\$ 28.00	\$ 17.57
<b>Optional PTT's</b>			
Otto V1-10513	Ring PTT to use with headsets with pigtails	\$ 30.00	\$ 18.83
Otto V1-10514	Flat PTT to use with headsets with pigtails	\$ 48.00	\$ 30.12
Otto V1-10515	Barrel PTT to use with headsets with pigtails	\$ 38.00	\$ 23.85
Otto V1-10519	80mm body PTT to use with headset with pigtails	\$ 120.00	\$ 75.30
<b>With Screw Down Connector</b>			
Otto V1-10756	2 Wire Palm Mic Kit - 2.5/3.5mm right angle	\$ 98.00	\$ 61.50
Otto E1-ET2CS131	2-Wire D-hanger with inline mic/PTT	\$ 32.00	\$ 20.08
Otto E1-EB2CS131	2-Wire earbud palm mic kit	\$ 30.00	\$ 18.83
Otto V4-10479	Lightweight single speaker headset with in-line PTT	\$ 121.00	\$ 75.93
Otto V4-BA2CS1	Breeze behind-the-head headset, single speaker, left boom mic, std PTT	\$ 107.00	\$ 67.14
Otto V4-BA2CS5	Breeze behind-the-head headset, single speaker, left boom mic, mini PTT	\$ 79.00	\$ 49.57
Otto V4-BA2CS3B	Breeze with in line PTT, with pigtail for remote PTT	\$ 118.00	\$ 74.05
Otto V4-EX2CS5	Explorer, lightweight, flexible earloop with boom mic, quick disconnect	\$ 118.00	\$ 74.05
Otto V4-HN2C3B	Hurricane behind-the-head with in line PTT with pigtail jack for remote PTT options	\$ 304.00	\$ 190.76
Otto V2-10288	Evolution heavy duty speaker mic	\$ 113.00	\$ 70.91
Otto V2-L2CS11	Profile speaker mic	\$ 79.00	\$ 49.57
Otto V2-C2CS11	Legacy speaker mic	\$ 48.00	\$ 30.12

Prices are subject to change, corrections and pending GSA approval.

GSA Contract #: GS-35F-0109L

# BASIC FUNCTION PORTABLES

## F3011 - F4011

### VERSIONS

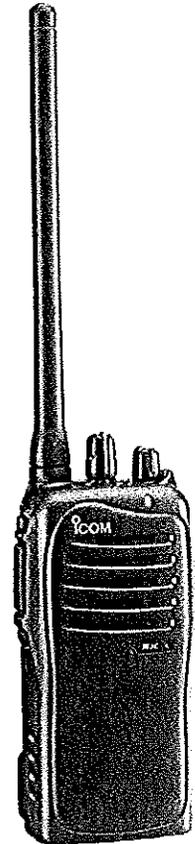
F3011	136-174 MHz; 16 channels with rapid charger in the box
F4011	400-470 MHz; 16 channels with rapid charger in the box 450-512 MHz; 16 channels with rapid charger in the box

### FEATURES

Output Power:	5W (VHF); 4W (UHF)
Channels:	16
Channel Spacing:	12.5/25 kHz, 15/30 kHz
PLL Channel Spacing:	2.5, 3.125 (VHF); 5, 6.25 (UHF)
Mil Spec:	810 C, D, E shock & vibration
Scan:	Normal & Priority
Programmable:	PC with CS-F3011 software
Weight:	10.6 oz (with BP-232N)
Other Features:	IP54 rating for dust protection and water resistance Three buttons Low battery alert with blinking LED and low battery beep Talk around function 3-color LED (red, green, orange) Time out timer 2-step power save
Included with radio:	Antenna, battery (BP-232N), belt clip (MB-94), rapid charger (BC-160) and owners manual

### SIGNALING

CTCSS/DTCS encode/decode standard



# F3011 - F4011 PRICING

Model	Description	Retail	GSA	20+	50+	100+	200+	400+
F3011 41 RC	136-174 MHz, 12.5/25 kHz channel spacing, 16 channels (includes radio, antenna, BP-232N battery, belt clip, BC-160 charger and owners manual)	\$ 240.00	\$ 150.60	\$ 143.07	\$ 138.55	\$ 135.54	\$ 132.53	\$ 131.02
F4011 41 RC	400-470 MHz, 12.5/25 kHz channel spacing, 16 channels (includes radio, antenna, BP-232N battery, belt clip, BC-160 charger and owners manual)	\$ 240.00	\$ 150.60	\$ 143.07	\$ 138.55	\$ 135.54	\$ 132.53	\$ 131.02
F4011 42 RC	450-512 MHz, 12.5/25 kHz channel spacing, 16 channels (includes radio, antenna, BP-232N battery, belt clip, BC-160 charger and owners manual)	\$ 240.00	\$ 150.60	\$ 143.07	\$ 138.55	\$ 135.54	\$ 132.53	\$ 131.02

Prices are subject to change, corrections and pending GSA approval.

GSA Contract #  
GS-35F-0109L

# F3011 - F4011 ACCESSORIES

Model	Description	Retail	GSA
<b>Antennas (*These items are Open Market)</b>			
FA-SC25U*	Flexible Antenna for 400-430MHz UHF (Green tip)	\$ 13.00	\$ 8.16
FA-SC25V*	Flexible Antenna for 136-155MHz VHF (Blue tip)	\$ 13.00	\$ 8.16
FA-SC55V*	Flexible Antenna for 146-174MHz VHF (Red tip)	\$ 13.00	\$ 8.16
FA-SC57U*	Flexible Antenna for 440-470MHz UHF (Red tip)	\$ 13.00	\$ 8.16
FA-SC72U*	Flexible Antenna for 470-520MHz UHF (Blue tip)	\$ 14.50	\$ 9.10
FA-SC56VS*	Stubby antenna 150-160MHz (red ring)	\$ 1.50	\$ 0.94
FA-SC56VS UPGRADE	Pull standard antenna and sub with FASC56VS	\$ 14.50	\$ 9.10
FA-SC57VS*	Stubby antenna 160-174MHz (green ring)	\$ 1.50	\$ 0.94
FA-SC57VS UPGRADE	Pull standard antenna and sub with FASC57VS	\$ 14.50	\$ 9.10
FA-SC73US*	Stubby antenna 450-470MHz (red ring)	\$ 1.50	\$ 0.94
FA-SC73US UPGRADE	Pull standard antenna and sub with FASC73US	\$ 16.00	\$ 10.04
FA-SC61UC	380-512 MHz (can be cut to tune to the center frequency you wish to set)	\$ 3.00	\$ 1.88
FA-SC61UC UPGRADE	Pull standard antenna and sub with FASC61UC	\$ 16.00	\$ 10.04
FA-SC61VC	136-174 MHz (can be cut to tune to the center frequency you wish to set)	\$ 3.00	\$ 1.88
FA-SC61VC UPGRADE	Pull standard antenna and sub with FASC61VC		
<b>Batteries</b>			
BP-232N	7.2V 2000 mAh Li-Ion battery (standard with radio)	\$ 65.00	\$ 40.79
BP-240	Alkaline battery case fits 6 AAA batteries (1W output power)	\$ 34.00	\$ 19.59
<b>Belt Clip</b>			
MB-93	Swivel Belt Clip	\$ 10.00	\$ 6.28
MB-94	Alligator Belt Clip (standard belt clip)	\$ 10.50	\$ 6.59
MB-96N	Swivel leather belt hanger (use with MB93)	\$ 28.00	\$ 17.57
MB-96F	Fixed leather belt hanger (use with MB94)	\$ 28.00	\$ 17.57
<b>Cables</b>			
OPC-656	DC power cable - for use with BC121N (12-16V DC required)	\$ 10.50	\$ 6.59
<b>Chargers</b>			
AD-106	Adapter cup for BC119N and BC121N	\$ 23.00	\$ 14.43
BC-121N	Multi-Unit (6) Desktop Charger (requires BC157 & 6 each AD106)	\$ 305.00	\$ 191.39
BC-121N AD106 KIT	117V Complete Multi Unit Charger Kit (includes BC157 and 6 AD106)	\$ 563.00	\$ 353.28
BC-121N AD106 220V KIT	220V Complete Multi Unit Charger Kit (includes BC157 and 6 AD106)	\$ 569.00	\$ 357.05
BC-157 02	117V Power supply for BC121N Multi Unit Charger	\$ 115.00	\$ 72.16
BC-157 04	220V Power supply for BC121N Multi Unit Charger	\$ 120.00	\$ 75.30
BC-145SA 31	117V AC Adapter for BC119N (included with BC119N)	\$ 25.00	\$ 15.69
BC-145SE 32	220V AC Adapter for BC119N (included with BC119N)	\$ 25.00	\$ 15.69
BC-160 01	117V Desktop Rapid Charger	\$ 68.00	\$ 42.67
BC-160 02	220V Desktop Rapid Charger	\$ 70.00	\$ 43.93
<b>Headsets (*Items are Open Market)</b>			
HS-94*	Ear-piece type headset for VS-1L	\$ 25.00	\$ 15.69
HS-95	Headset with boom mic for VS-1L	\$ 210.00	\$ 131.78
HS-97*	Earphone with throat mic for VS-1L	\$ 42.00	\$ 26.36
SP-13	Earphone for handhelds compatible with HM46L & HM131L	\$ 5.00	\$ 3.04
VS-1L*	VOX/PTT unit (requires headset)	\$ 44.00	\$ 27.61
<b>Manuals</b>			
98815492	Owners Manual	\$ 12.00	\$ 7.53
97715493	Service Manual	\$ 40.00	\$ 22.09
94415494	CD Service Manual	\$ 40.00	\$ 22.09
<b>Programming Software and Cables (required to operate radio)</b>			
CS-F3011	Programming Windows Software	\$ 75.00	\$ 47.06
OPC-478	Programming Cloning Cable for PC to Radio	\$ 52.00	\$ 32.44
OPC-478UC	Programming cloning cable (USB)	\$ 70.00	\$ 43.93
<b>Speaker Microphones</b>			
HM-153L	Heavy duty earphone-mic-two screw connector. Compact microphone with PTT switch clips to your lapel.	\$ 120.00	\$ 75.30
HM-158L	Speaker microphone with compact & durable body. Equipped with an earphone jack and a revolving clip.	\$ 47.00	\$ 29.49
HM-159L	Heavy duty speaker microphone with metal alligator clip and screw down L-shape connector	\$ 77.00	\$ 48.32
HM-166L	Earphone-microphone - medium duty	\$ 50.00	\$ 31.38
<b>Installation Charges (Open Market)</b>			
INSTALLM1234	Installation charge for 1-25 radios	\$ 40.00	\$ 25.10
INSTALLM1234	Installation charger for 25-49 radios	\$ 40.00	\$ 18.83
INSTALLM1234	Installation charge for 50+ radios	\$ 40.00	\$ 12.55
<b>Programming Charges (Open Market)</b>			
PROGLM1234	Programming charge for 1-25 radios	\$ 42.00	\$ 26.36
PROGLM1234	Programming charger for 25-49 radios	\$ 42.00	\$ 15.69
PROGLM1234	Programming charge for 50+ radios	\$ 42.00	\$ 10.67
<b>Extended Warranty (Open Market)</b>			
EXTWARR211	1 year extended warranty for a total of 3 years	\$ 25.00	\$ 15.69
EXTWARR212	2 years extended warranty for a total of 4 years	\$ 44.00	\$ 27.61
EXTWARR213	3 years extended warranty for a total of 5 years	\$ 62.00	\$ 38.91

Prices are subject to change, corrections and pending GSA approval.

GSA Contract #  
GS-35F-0109L

# F3011 - F4011 PARTNER PRODUCTS

All Partner Products are Open Market.

Model	Description	Retail	Open Market
<b>Centurion Antenna</b>			
CEN EXD 400 MXI	Slubby antenna 400-430 MHz	\$ 14.00	\$ 8.79
CEN EXD 400 MXI UPGRADE	Pull standard antenna and sub CEN EXD 400 MXI	\$ 2.00	\$ 1.26
<b>Bee Cases</b>			
LCF14 LOOP	Leather Case with a loop	\$ 40.00	\$ 25.10
LCF14 CLIP	Leather Case with a clip	\$ 45.00	\$ 28.24
LCF14 SWIVEL	Leather Case with a swivel	\$ 50.00	\$ 31.38
NCF14 CLIP	Nylon Carrying case with a clip	\$ 30.00	\$ 18.83
NCF14 LOOP	Nylon Carrying case with a loop	\$ 25.00	\$ 15.69
<b>Otto Accessories</b>			
Otto E1EB2CC131	Vireo 1-wire ear bud with in line mic/PTT	\$ 10.00	\$ 6.28
<b>Listen Only</b>			
Otto V1-10432	Earpiece to use with Otto speaker mics - right angle plug	\$ 48.00	\$ 30.12
Otto V1-EH22R131	D-hanger style piece to use with Otto speaker mics - right angle plug	\$ 28.00	\$ 17.57
<b>Optional PTT's</b>			
Otto V1-10513	Ring PTT to use with headsets with pigtails	\$ 30.00	\$ 18.83
Otto V1-10514	Flat PTT to use with headsets with pigtails	\$ 48.00	\$ 30.12
Otto V1-10515	Barrel PTT to use with headsets with pigtails	\$ 38.00	\$ 23.85
Otto V1-10519	80mm body PTT to sue with headsets with pigtails	\$ 120.00	\$ 75.30
<b>With Screw Down Connector</b>			
Otto V1-10756	2 Wire Palm Mic Kit - 2.5/3.5mm right angle	\$ 98.00	\$ 61.50
Otto E1-ET2CS131	2-Wire D-hanger with inline mic/PTT	\$ 32.00	\$ 20.08
Otto E1-EB2CS131	2-Wire earbud palm mic kit	\$ 30.00	\$ 18.83
Otto V4-10479	Lightweight single speaker headset with in-line PTT	\$ 121.00	\$ 75.93
Otto V4-BA2CS1	Breeze behind-the-head headset, single speaker, left boom mic, std PTT	\$ 107.00	\$ 67.14
Otto V4-BA2CS5	Breeze behind-the-head headset, single speaker, left boom mic, mini PTT	\$ 79.00	\$ 49.57
Otto V4-BA2CS3B	Breeze with inline PTT, with pigtail for remote PTT	\$ 118.00	\$ 74.05
Otto V4-EX2CS5	Explorer, lightweight, flexible earloop with boom mic, quick disconnect	\$ 118.00	\$ 74.05
Otto V4-HN2C3B	Hurricane, behind-the-head with in line PTT with pigtail jack for remote PTT options	\$ 304.00	\$ 190.76
Otto V2-10288	Evolution heavy duty speaker mic	\$ 113.00	\$ 70.91
Otto V2L2CS11	Profile speaker mic	\$ 79.00	\$ 49.57
Otto V2C2CS11	Legacy speaker mic	\$ 48.00	\$ 30.12

# BASIC FUNCTION PORTABLES

## F14 - F24

### VERSIONS

VHF with 2 channels		
F14S 11	136-174 MHz	
VHF with 16 channels		
F14 01	136-174 MHz	
UHF with 2 channels		
F24S 11	400-470 MHz	
F24S 12	450-512 MHz	
UHF with 16 channels		
F24 01	400-470 MHz	
F24 02	450-512 MHz	

### FEATURES

Output Power:	5W (VHF); 4W (UHF)
Channels:	2 (S type); 16 (non-S type)
Channel Spacing:	12.5/25 kHz
PLL Channel Spacing:	2.5, 3.125 (VHF); 5, 6.25 (UHF)
Mil Spec:	810 C, D, E shock & vibration
Scan:	Normal & priority
Programmable:	PC with CS-F14 software
Weight:	9.2 oz (with BP-232N)
Included with radio:	Antenna, battery (BP-232N), belt clip (MB-94) and owners manual

### SIGNALING

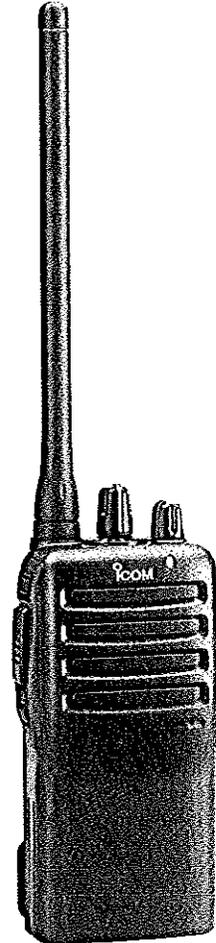
CTCSS, DTCS, 2/5 tone encode/decode standard, DTMF encode  
MDC1200 encode  
DTMF Decode Option: UT-1(UT-108)

### ENCRYPTION

Simple Inversion: UT-109 01 32 Codes  
Rolling Code: UT-110 01 1020 Codes

### BATTERIES AND CHARGERS

BP-232N 2000 mAh Li-ion battery standard with radio  
BC-121 6 Unit Rapid Charger (requires BC157 power supply & (6) AD-106 adapter cups)  
BC-160 Rapid Charger



# F14 - F24 PRICING

Model		Retail	GSA	20+	50+	100+	200+	400+
F14 01	136 - 174 MHz, 12.5/25 kHz Channel Spacing, 16 channels (includes radio, antenna, BP232N battery, belt clip and owners manual)	\$ 280.00	\$ 175.70	\$ 166.92	\$ 161.64	\$ 158.13	\$ 154.62	\$ 152.86
F14 01 DTC	With BC171 01 desktop trickle charger	\$ 320.00	\$ 200.80	\$ 190.76	\$ 184.74	\$ 180.72	\$ 176.70	\$ 174.70
F14 01 RC	With BC-160 01 rapid charger	\$ 325.00	\$ 203.94	\$ 193.74	\$ 187.62	\$ 183.54	\$ 179.47	\$ 177.43
F14S 11	136 - 174 MHz, 12.5/25 kHz Channel Spacing, 2 channel toggle (includes radio, antenna, BP232N battery, belt clip and owners manual)	\$ 277.00	\$ 173.82	\$ 165.13	\$ 159.91	\$ 156.44	\$ 152.96	\$ 151.22
F14S 11 DTC	With BC171 01 desktop trickle charger	\$ 310.00	\$ 194.53	\$ 184.80	\$ 178.96	\$ 175.07	\$ 171.18	\$ 169.24
F14S 11 RC	With BC-160 01 rapid charger	\$ 315.00	\$ 197.66	\$ 187.78	\$ 181.85	\$ 177.90	\$ 173.94	\$ 171.97
F24 01	400 - 470 MHz, 12.5/25 kHz Channel Spacing, 16 channels (includes radio, antenna, BP232N battery, belt clip and owners manual)	\$ 300.00	\$ 188.25	\$ 178.84	\$ 173.19	\$ 169.43	\$ 165.66	\$ 163.78
F24 01 DTC	With BC171 01 desktop trickle charger	\$ 340.00	\$ 213.35	\$ 202.68	\$ 196.28	\$ 192.02	\$ 187.75	\$ 185.61
F24 01 RC	With BC-160 01 rapid charger	\$ 345.00	\$ 216.49	\$ 205.66	\$ 199.17	\$ 194.84	\$ 190.51	\$ 188.34
F24 02	450 - 512 MHz, 12.5/25 kHz Channel Spacing, 16 channels (includes radio, antenna, BP232N battery, belt clip and owners manual)	\$ 300.00	\$ 188.25	\$ 178.84	\$ 173.19	\$ 169.43	\$ 165.66	\$ 163.78
F24 02 DTC	With BC171 01 desktop trickle charger	\$ 340.00	\$ 213.35	\$ 202.68	\$ 196.28	\$ 192.02	\$ 187.75	\$ 185.61
F24 02 RC	With BC-160 01 rapid charger	\$ 345.00	\$ 216.49	\$ 205.66	\$ 199.17	\$ 194.84	\$ 190.51	\$ 188.34

Prices are subject to change, corrections and pending GSA approval.

GSA Contract #  
GS-35F-0109L

# F14 - F24 ACCESSORIES

Model	Description	Retail	GSA
<b>Antennas (*These items are Open Market)</b>			
FA-SC25U*	Flexible Antenna for 400-430MHz UHF (Green tip)	\$ 13.00	\$ 8.16
FA-SC25V *	Flexible Antenna for 136-155MHz VHF (Blue tip)	\$ 13.00	\$ 8.16
FA-SC55V *	Flexible Antenna for 146-174MHz VHF (Red tip)	\$ 13.00	\$ 8.16
FA-SC57U*	Flexible Antenna for 440-470MHz UHF (Red tip)	\$ 13.00	\$ 8.16
FA-SC72U *	Flexible Antenna for 470-520MHz UHF (Blue tip)	\$ 13.00	\$ 8.16
FA-SC56VS*	Stubby antenna 150-160MHz (red ring)	\$ 14.50	\$ 9.10
FA-SC56VS UPGRADE	Pull standard antenna and sub with FASC56VS	\$ 1.50	\$ 0.94
FA-SC57VS*	Stubby antenna 160-174MHz (green ring)	\$ 14.50	\$ 9.10
FA-SC57VS UPGRADE	Pull standard antenna and sub with FASC57VS	\$ 1.50	\$ 0.94
FA-SC73US*	Stubby antenna 450-470MHz (red ring)	\$ 14.50	\$ 9.10
FA-SC73US UPGRADE	Pull standard antenna and sub with FASC73US	\$ 1.50	\$ 0.94
FA-SC61UC	380-512 MHz (can be cut to tune to the center frequency you wish to set)	\$ 16.00	\$ 10.04
FA-SC61UC UPGRADE	Pull standard antenna and sub with FASC61UC	\$ 3.00	\$ 1.88
FA-SC61VC	136-174 MHz (can be cut to tune to the center frequency you wish to set)	\$ 16.00	\$ 10.04
FA-SC61VC UPGRADE	Pull standard antenna and sub with FASC61VC	\$ 3.00	\$ 1.88
<b>Batteries</b>			
BP-232N	7.2V 2000 mAh Li-Ion battery (standard with radio)	\$ 65.00	\$ 40.79
BP-240	Alkaline battery case fits 6 AAA batteries (1W output power)	\$ 34.00	\$ 19.59
<b>Belt Clip</b>			
MB-93	Swivel Belt Clip	\$ 10.00	\$ 6.28
MB-94	Alligator Belt Clip (standard belt clip)	\$ 10.50	\$ 6.59
MB-96N	Swivel leather belt hanger (use with MB93)	\$ 28.00	\$ 17.57
MB-96F	Fixed leather belt hanger (use with MB94)	\$ 28.00	\$ 17.57
<b>Cables</b>			
CP-17L	Cigarette lighter cable	\$ 26.00	\$ 16.32
OPC-515L	DC power cable - for use with BC119N (12-16V DC required)	\$ 23.00	\$ 14.43
OPC-656	DC power cable - for use with BC121N (12-16V DC required)	\$ 10.50	\$ 6.59
<b>Chargers</b>			
AD-106	Adapter cup for BC119N and BC121N	\$ 23.00	\$ 14.43
BC-119N 01	117V Desktop Rapid Charger (requires AD106 adapter cup)	\$ 68.00	\$ 42.67
BC-119N 02	117V Desktop Rapid Charger (requires AD106 adapter cup)	\$ 68.00	\$ 42.67
BC-121N	Multi-Unit (6) Desktop Charger (requires BC157 & 6 each AD106)	\$ 305.00	\$ 191.39
BC-121N AD106 KIT	117V Complete Multi Unit Charger Kit (includes BC157 and 6 AD106)	\$ 563.00	\$ 353.28
BC-121N AD106 220V KIT	220V Complete Multi Unit Charger Kit (includes BC157 and 6 AD106)	\$ 569.00	\$ 357.05
BC-157 02	117V Power supply for BC121N Multi Unit Charger	\$ 115.00	\$ 72.16
BC-157 04	220V Power supply for BC121N Multi Unit Charger	\$ 120.00	\$ 75.30
BC-145SA 31	117V AC Adapter for BC119N (included with BC119N)	\$ 25.00	\$ 9.66
BC-145SE 32	220V AC Adapter for BC119N (included with BC119N)	\$ 25.00	\$ 15.69
BC-147SA 14	117V AC adapter for BC171 01	\$ 15.00	\$ 7.25
BC-147SE 15	220V AC adapter for BC171 02	\$ 16.00	\$ 10.04
BC-160 01	117V Desktop Rapid Charger	\$ 68.00	\$ 42.67
BC-160 02	220V Desktop Rapid Charger	\$ 70.00	\$ 43.93
BC-171 01	110V Drop In Trickle Charger	\$ 45.00	\$ 28.24
BC-171 02	220V Drop in Trickle Charger	\$ 45.00	\$ 28.24
<b>Headsets (*These items are Open Market)</b>			
HS-94*	Ear-piece type headset for VS-1L	\$ 25.00	\$ 15.69
HS-95	Headset with boom mic for VS-1L	\$ 210.00	\$ 131.78
HS-97*	Earphone with throat mic for VS-1L	\$ 42.00	\$ 3.04
SP-13	Earphone for handhelds compatible with HM46L & HM131L	\$ 5.00	\$ 3.14
VS-1L*	VOX/PTT unit (requires headset)	\$ 44.00	\$ 27.61
<b>Internal Modules</b>			
UT-108	DTMF Decoder	\$ 39.00	\$ 24.47
UT-109 01	Non-rolling voice scrambler. Up to 32 codes available (not compatible with UT-110)	\$ 105.00	\$ 65.89
UT-110 01	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes (available in conventional mode only)	\$ 173.00	\$ 108.56
UT-124	Man Down Unit	\$ 90.00	\$ 56.48
<b>Manuals</b>			
98814946	Owners Manual	\$ 12.00	\$ 7.53
97714886	Service Manual (F14/S)	\$ 40.00	\$ 22.09
97714932	Service Manual (F24/S)	\$ 40.00	\$ 22.09
94414913	CD Service Manual	\$ 40.00	\$ 22.09
<b>Programming Software and Cables</b>			
CS-F14	Programming Windows Software	\$ 75.00	\$ 47.06
OPC-478	Programming Cloning Cable for PC to Radio	\$ 52.00	\$ 32.44
OPC-478UC	Programming cloning cable (USB)	\$ 70.00	\$ 43.93

# F14 - F24 ACCESSORIES

Model	Description	Retail	GSA
<b>Speaker Microphones</b>			
HM-153L	Heavy duty earphone-mic-two screw connector. Compact microphone with PTT switch clips to your label.	\$ 120.00	\$ 75.30
HM-158L	Speaker microphone with compact & durable body. Equipped with an earphone jack and a revolving clip.	\$ 47.00	\$ 29.49
HM-159L	Heavy duty speaker microphone with metal alligator clip and screw down L-shape connector	\$ 77.00	\$ 48.32
HM-166L	Earphone-microphone - medium duty	\$ 50.00	\$ 31.38
<b>Installation Charges (Open Market)</b>			
INSTALLM1234	Installation charge for 1-25 radios	\$ 40.00	\$ 25.10
INSTALLM1234	Installation charger for 25-49 radios	\$ 40.00	\$ 18.83
INSTALLM1234	Installation charge for 50+ radios	\$ 40.00	\$ 12.55
<b>Programming Charges (Open Market)</b>			
PROGLM1234	Programming charge for 1-25 radios	\$ 42.00	\$ 26.36
PROGLM1234	Programming charger for 25-49 radios	\$ 42.00	\$ 15.69
PROGLM1234	Programming charge for 50+ radios	\$ 42.00	\$ 10.67
<b>Extended Warranty (Open Market)</b>			
EXTWARR211	1 year extended warranty for a total of 3 years	\$ 25.00	\$ 15.69
EXTWARR212	2 years extended warranty for a total of 4 years	\$ 44.00	\$ 27.61
EXTWARR213	3 years extended warranty for a total of 5 years	\$ 62.00	\$ 38.91

# F14 - F24 PARTNER PRODUCTS

*All Partner Products are Open Market.*

Model	Description	Retail	Open Market
<b>Centurion Antenna</b>			
CEN EXD 400 MXI	Stubby antenna 400-430 MHz	\$ 14.00	\$ 8.79
CEN EXD 400 MXI UF	Full standard antenna and sub CEN EXD 400 MXI	\$ 2.00	\$ 1.26
<b>Bee Cases</b>			
LCF14 LOOP	Leather Case with a loop	\$ 40.00	\$ 25.10
LCF14 CLIP	Leather Case with a clip	\$ 45.00	\$ 28.24
LCF14 SWIVEL	Leather Case with a swivel	\$ 50.00	\$ 31.38
NCF14 CLIP	Nylon Carrying case with a clip	\$ 30.00	\$ 18.83
NCF14 LOOP	Nylon Carrying case with a loop	\$ 25.00	\$ 15.69
<b>Otto Accessories</b>			
Otto E1EB2CC131	Vireo 1-wire ear bud with in line mic/PTT	\$ 10.00	\$ 6.28
<b>Listen Only</b>			
Otto V1-10432	Earpiece to use with Otto speaker mics - right angle plug	\$ 48.00	\$ 30.12
Otto V1-EH22R131	D-hanger style piece to use with Otto speaker mics - right angle plug	\$ 28.00	\$ 17.57
<b>Optional PTT's</b>			
Otto V1-10513	Ring PTT to use with headsets with pigtails	\$ 30.00	\$ 18.83
Otto V1-10514	Flat PTT to use with headsets with pigtails	\$ 48.00	\$ 30.12
Otto V1-10515	Barrel PTT to use with headsets with pigtails	\$ 38.00	\$ 23.85
Otto V1-10519	80mm body PTT to sue with headsets with pigtails	\$ 120.00	\$ 75.30
<b>With Screw Down Connector</b>			
Otto V1-10756	2 Wire Palm Mic Kit - 2.5/3.5mm right angle	\$ 98.00	\$ 61.50
Otto E1-ET2CS131	2-Wire D-hanger with inline mic/PTT	\$ 32.00	\$ 20.08
Otto E1-EB2CS131	2-Wire earbud palm mic kit	\$ 30.00	\$ 18.83
Otto V4-10479	Lightweight single speaker headset with in-line PTT	\$ 121.00	\$ 75.93
Otto V4-BA2CS1	Breeze behind-the-head headset, single speaker, left boom mic, std PTT	\$ 107.00	\$ 67.14
Otto V4-BA2CS5	Breeze behind-the-head headset, single speaker, left boom mic, mini PTT	\$ 79.00	\$ 49.57
Otto V4-BA2CS3B	Breeze with inline PTT, with pigtail for remote PTT	\$ 118.00	\$ 74.05
Otto V4-EX2CS5	Explorer, lightweight, flexible earloop with boom mic, quick disconnect	\$ 118.00	\$ 74.05
Otto V4-HN2C3B	Hurricane, behind-the-head with in line PTT with pigtail jack for remote PTT options	\$ 304.00	\$ 190.76
Otto V2-10288	Evolution heavy duty speaker mic	\$ 113.00	\$ 70.91
Otto V2L2CS11	Profile speaker mic	\$ 79.00	\$ 49.57
Otto V2C2CS11	Legacy speaker mic	\$ 48.00	\$ 30.12

# ADVANCED PORTABLES

## F3021 - F4021

### VERSIONS

F3021S VHF without a keypad	
F3021S 41	136-174 MHz, 12.5/25 kHz, No Keypad
F3021T VHF with DTMF keypad	
F3021T 01	136-174 MHz, 12.5/25 kHz, Keypad
F4021S UHF without a keypad	
F4021S 41	400-470 MHz, 12.5/25 kHz, No Keypad
F4021S 42	450-512 MHz, 12.5/25 kHz, No Keypad
F4021T UHF with DTMF keypad	
F4021T 01	400-470 MHz, 12.5/25 kHz, Keypad
F4021T 02	450-512 MHz, 12.5/25 kHz, Keypad

### FEATURES

Output Power:	5W (VHF); 4W (UHF)
Channels:	128
Channel Spacing:	12.5/25 kHz Switchable
PLL Channel Spacing:	2.5/3.125kHz
LCD Display:	8-character alphanumeric
Programmable Keys:	8
Mil Spec:	810 C, D, E
Scan:	Normal & priority
Programmable:	PC with CS-F3021/F5021 software
Weight:	10.6 oz (with BP-232N)
Other Features:	IP54 dust-protection & splash resistance TOT function and lock out penalty timer 2-step power saver Surveillance function temporarily turns off LED backlight 500mW loud and clear audio

Included with Radio: Antenna, battery (BP-232N), belt clip (MB-94) & owners manual

### SIGNALING

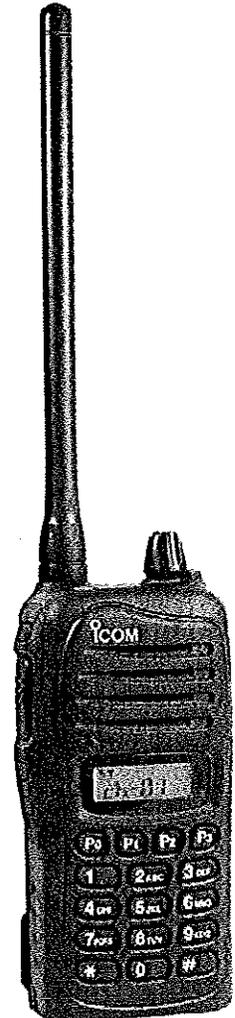
CTCSS/DCS encode/decode & DTMF decode, 2/5 tone encode/decode standard	
DTMF decode:	UT-108R
MDC1200 encode/decode standard	

### ENCRYPTION

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

### BATTERIES AND CHARGERS

BP-232N 2000 mAh Li-Ion standard battery
BC-121N F33G 6 Unit Charger (includes BC157 power supply and 6 AD106 adapter cups)
BC-171 Drop-in trickle charger
BC-160 Rapid Charger



# F3021 - F4021 PRICING

Model	Description	Retail	GSA	20+	50+	100+	200+	400+
F3021S 41	136 - 174 MHz, 12.5/25 kHz Channel Spacing, no keypad, MDC1200 (includes radio, antenna, BP-232N battery, belt clip and owners manual)	\$ 350.00	\$ 219.63	\$ 208.64	\$ 204.25	\$ 197.66	\$ 193.27	\$ 188.88
F3021S 41 DTC	With BC-171 01 drop-in trickle charger	\$ 390.00	\$ 244.73	\$ 232.49	\$ 227.59	\$ 220.25	\$ 215.36	\$ 210.46
F3021S 41 RC	With BC-160 01 rapid charger	\$ 410.00	\$ 267.28	\$ 244.41	\$ 239.27	\$ 231.55	\$ 226.40	\$ 221.26
F4021S 41	400 - 470 MHz, 12.5/25 kHz Channel Spacing, no keypad, MDC1200 (includes radio, antenna, BP-232N battery, belt clip and owners manual)	\$ 350.00	\$ 219.63	\$ 208.64	\$ 204.25	\$ 197.66	\$ 193.27	\$ 188.88
F4021S 41 DTC	With BC-171 01 drop-in trickle charger	\$ 390.00	\$ 244.73	\$ 232.49	\$ 227.59	\$ 220.25	\$ 215.36	\$ 210.46
F4021S 41 RC	With BC-160 01 rapid charger	\$ 410.00	\$ 267.28	\$ 244.41	\$ 239.27	\$ 231.55	\$ 226.40	\$ 221.26
F4021S 42	450 - 512 MHz, 12.5/25kHz Channel Spacing, no keypad, MDC1200 (includes radio, antenna, BP-232N battery, belt clip and owners manual)	\$ 350.00	\$ 219.63	\$ 208.64	\$ 204.25	\$ 197.66	\$ 193.27	\$ 188.88
F4021S 42 DTC	With BC-171 01 drop-in trickle charger	\$ 390.00	\$ 244.73	\$ 232.49	\$ 227.59	\$ 220.25	\$ 215.36	\$ 210.46
F4021S 42 RC	With BC-160 01 rapid charger	\$ 410.00	\$ 267.28	\$ 244.41	\$ 239.27	\$ 231.55	\$ 226.40	\$ 221.26
Model	Description	Retail	GSA	20+	50+	100+	200+	
F3021T 01	136 - 174 MHz, 12.5/25 kHz Channel Spacing, keypad, MDC1200 (includes radio, antenna, BP-232N battery, belt clip and owners manual)	\$ 375.00	\$ 235.31	\$ 223.55	\$ 218.84	\$ 211.78	\$ 207.08	\$ 202.37
F3021T 01 DTC	With BC-171 01 drop-in trickle charger	\$ 415.00	\$ 260.41	\$ 247.39	\$ 242.18	\$ 234.37	\$ 229.16	\$ 223.95
F3021T 01 RC	With BC-160 01 rapid charger	\$ 435.00	\$ 272.96	\$ 259.31	\$ 253.86	\$ 245.67	\$ 240.21	\$ 234.75
F4021T 01	400 - 470 MHz, 12.5/25 kHz Channel Spacing, keypad, MDC1200 (includes radio, antenna, BP-232N battery, belt clip and owners manual)	\$ 375.00	\$ 235.31	\$ 223.55	\$ 218.84	\$ 211.78	\$ 207.08	\$ 202.37
F4021T 01 DTC	With BC-171 01 drop-in trickle charger	\$ 415.00	\$ 260.41	\$ 247.39	\$ 242.18	\$ 234.37	\$ 229.16	\$ 223.95
F4021T 01 RC	With BC-160 01 rapid charger	\$ 435.00	\$ 272.96	\$ 259.31	\$ 253.86	\$ 245.67	\$ 240.21	\$ 234.75
F4021T 02	450 - 512 MHz, 12.5/25kHz Channel Spacing, keypad, MDC1200 (includes radio, antenna, BP-232N battery, belt clip and owners manual)	\$ 375.00	\$ 235.31	\$ 223.55	\$ 218.84	\$ 211.78	\$ 207.08	\$ 202.37
F4021T 02 DTC	With BC-171 01 drop-in trickle charger	\$ 415.00	\$ 260.41	\$ 247.39	\$ 242.18	\$ 234.37	\$ 229.16	\$ 223.95
F4021T 02 RC	With BC-160 01 rapid charger	\$ 435.00	\$ 272.96	\$ 259.31	\$ 253.86	\$ 245.67	\$ 240.21	\$ 234.75

Prices subject to change, correction and pending GSA approval.

GSA Contract #:  
GS-35F-0109L

# F3021 - F4021 ACCESSORIES

Model	Description	Retail	GSA
<b>Antennas (*These Items are Open Market)</b>			
FA-SC26U*	Flexible Antenna for 400-430MHz UHF (Green tip)	\$ 13.00	\$ 8.16
FA-SC25V*	Flexible Antenna for 136-155MHz VHF (Blue tip)	\$ 13.00	\$ 8.16
FA-SC55V*	Flexible Antenna for 146-174MHz VHF (Std VHF - Red tip)	\$ 13.00	\$ 8.16
FA-SC57U*	Flexible Antenna for 430-470MHz UHF (Std UHF - Red tip)	\$ 13.00	\$ 8.16
FA-SC72U*	Flexible Antenna for 470-520MHz UHF (Blue tip)	\$ 14.50	\$ 9.10
FA-SC56VS*	Stubby antenna 160-160MHz (red ring)	\$ 1.50	\$ 0.94
FA-SC56VS UPGRADE	Pull standard antenna and sub FA-SC58US	\$ 14.50	\$ 9.10
FA-SC57VS*	Stubby antenna 160-174MHz (green ring)	\$ 1.50	\$ 0.94
FA-SC57VS UPGRADE	Pull standard antenna and sub FA-SC57US	\$ 14.50	\$ 9.10
FA-SC73US*	Stubby antenna 460-470MHz (red ring)	\$ 1.50	\$ 0.94
FA-SC73US UPGRADE	Pull standard antenna and sub FA-SC73US	\$ 16.00	\$ 10.04
FASC61UC	380-512 MHz (can be cut to tune to the center frequency you wish to set)	\$ 3.00	\$ 1.88
FASC61UC UPGRADE	Pull standard antenna and sub with FASC61UC	\$ 16.00	\$ 10.04
FASC61VC	136-174 MHz (can be cut to tune to the center frequency you wish to set)	\$ 3.00	\$ 1.88
FASC61VC UPGRADE	Pull standard antenna and sub with FASC61VC	\$ 3.00	\$ 1.88
<b>Batteries</b>			
BP-232N	7.2V/2000mAh LI-ion battery (supplied with radio)	\$ 65.00	\$ 40.79
BP-240	Alkaline battery case fits 6 AAA batteries (1W output power)	\$ 34.00	\$ 19.59
<b>Belt Clips</b>			
MB-93	Swivel belt clip	\$ 10.00	\$ 6.28
MB-94	Alligator belt clip (standard belt clip)	\$ 10.50	\$ 6.59
MB-96N	Swivel leather belt hanger. Use with MB-93.	\$ 28.00	\$ 17.57
MB-96F	Fixed leather belt hanger. Use with MB-94.	\$ 28.00	\$ 17.57
<b>Cables</b>			
CP-17L	Cigarette lighter cable	\$ 26.00	\$ 16.32
OPC-516L	DC power cable - for use with RC (12-16V DC req.)	\$ 23.00	\$ 14.43
OPC-656	DC power cable - for use with BC-121N (12-16V DC req.)	\$ 10.50	\$ 6.59
<b>Chargers</b>			
AD-106	Adapter cup for BC119N/BC-121 6 unit multi charger	\$ 23.00	\$ 14.43
BC-119N 01	117V Rapid Charger (requires AD-106)	\$ 72.00	\$ 45.18
BC-119N 02	220V Rapid Charger (requires AD-106)	\$ 74.00	\$ 46.44
BC-121N	Multi-Unit (6) Charger (BC-157 & AD-106 adapter cups req.)	\$ 305.00	\$ 191.39
BC-121N AD106 KIT	117V Multi Unit Charger Kit (includes BC157 and 6 AD106)	\$ 563.00	\$ 353.28
BC-121N AD106 220V KIT	220V Multi Unit Charger Kit (includes BC157 and 6 AD106)	\$ 569.00	\$ 357.05
BC-157 02	117V power supply for the BC-121N gang charger	\$ 115.00	\$ 72.16
BC-157 04	220V power supply for BC121N	\$ 120.00	\$ 75.30
BC-145SA 31	117V AC adapter for BC-160/BC-119N (included w/BC-119N 01)	\$ 25.00	\$ 9.66
BC-145SE 32	220V AC adapter for BC-160/BC-119N (included w/BC-119N 02)	\$ 25.00	\$ 15.69
BC-147SA 14	117V AC adapter for BC-171 01	\$ 15.00	\$ 7.25
BC-147SE 15	220V AC adapter for BC-171 02	\$ 16.00	\$ 10.04
BC-160 01	117V Desktop Rapid Charger	\$ 68.00	\$ 42.67
BC-160 02	220V Desktop Rapid Charger	\$ 70.00	\$ 43.93
BC-171 01	117V Drop-in trickle charger (8 to 10 hrs)	\$ 45.00	\$ 28.24
BC-171 02	220V Drop-in trickle charger (8 to 10 hrs)	\$ 45.00	\$ 28.24
<b>Headsets (*These Items are Open Market)</b>			
HS-94*	Ear-piece type headset for VS-1L	\$ 25.00	\$ 15.69
HS-95	Headset with boom mic for VS-1L	\$ 210.00	\$ 131.78
HS-97*	Earphone with throat mic for VS-1L	\$ 42.00	\$ 26.36
SP-13	Earphone for handhelds compatible with HM46L & HM131L	\$ 5.00	\$ 3.04
VS-1L*	VOX/PTT unit (requires headset)	\$ 44.00	\$ 27.61
<b>Internal Modules</b>			
UT-108R	DTMF decoder	\$ 39.00	\$ 24.47
UT-109R	Non-rolling voice scrambler. Up to 32 codes available (not compatible with UT-110)	\$ 105.00	\$ 65.89
UT-110R	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes (available in conventional mode only)	\$ 173.00	\$ 108.56
UT124R 02	Man Down Unit	\$ 90.00	\$ 56.48
<b>Manuals</b>			
98815180	Owners Manual	\$ 12.00	\$ 7.53
97715148	Service Manual	\$ 40.00	\$ 22.09
94415147	CD Service Manual	\$ 40.00	\$ 22.09
<b>Programming</b>			
CS-F3021/F5021	Programming software	\$ 75.00	\$ 47.06
OPC-478	Programming Cloning Cable for PC to Radio with RC232S	\$ 52.00	\$ 32.44
OPC-478UC	Programming Cloning Cable for PC to Radio with USB connector	\$ 70.00	\$ 43.93
<b>Speaker Microphones</b>			
HM-153L	Durable earphone-microphone with revolving clip	\$ 120.00	\$ 75.30
HM-158L	Compact speaker microphone with screw-in connector	\$ 47.00	\$ 29.49
HM-159L LG	Full size durable speaker microphone (IP-X4) w/screw-in connector	\$ 77.00	\$ 48.32
HM-166L	Earphone microphone - medium duty	\$ 50.00	\$ 31.38
<b>Installation Charges (Open Market)</b>			
INSTALLM1234	Installation charge for 1-25 radios	\$ 40.00	\$ 25.10
INSTALLM1234	Installation charge for 25-49 radios	\$ 40.00	\$ 18.83
INSTALLM1234	Installation charge for 50+ radios	\$ 40.00	\$ 12.55
<b>Programming Charges (Open Market)</b>			
PROGLM1234	Programming charge for 1-25 radios	\$ 42.00	\$ 26.36
PROGLM1234	Programming charge for 25-49 radios	\$ 42.00	\$ 15.69
PROGLM1234	Programming charge for 50+ radios	\$ 42.00	\$ 10.67
<b>Extended Warranty (Open Market)</b>			
EXTWARR211	1 year extended warranty for a total of 3 years	\$ 25.00	\$ 15.69
EXTWARR212	2 years extended warranty for a total of 4 years	\$ 44.00	\$ 27.61
EXTWARR213	3 years extended warranty for a total of 5 years	\$ 62.00	\$ 38.91

# F3021 - F4021 PARTNER PRODUCTS

All Partner Products are Open Market.

Model	Description	Retail	Open Market
<b>Centurion Antenna</b>			
CEN EXD 400 MXI	Stubby antenna 400-430 MHz	\$ 14.00	\$ 8.79
CEN EXD 400 MXI UPGRADE	Pull standard antenna and sub CEN EXD 400 MXI	\$ 2.00	\$ 1.26
<b>Bee Cases</b>			
LCF3021S LOOP	Leather case with loop (non keypad version)	\$ 40.00	\$ 25.10
LCF3021S CLIP	Leather case with clip (non keypad version)	\$ 45.00	\$ 28.24
LCF3021S SWIVEL	Leather case with swivel (non keypad version)	\$ 50.00	\$ 31.38
LCF3021T LOOP	Leather case with loop (keypad version)	\$ 40.00	\$ 25.10
LCF3021T CLIP	Leather case with clip (keypad version)	\$ 45.00	\$ 28.24
LCF3021T SWIVEL	Leather case with swivel (keypad version)	\$ 50.00	\$ 31.38
NCF3021S CLIP	Nylon case with a clip for non keypad version	\$ 30.00	\$ 18.83
NCF3021S LOOP	Nylon case with a loop for non keypad version	\$ 35.00	\$ 21.96
NCF3021T CLIP	Nylon case with a clip for keypad version	\$ 30.00	\$ 18.83
NCF3021T LOOP	Nylon case with a loop for keypad version	\$ 35.00	\$ 21.96
<b>Otto Accessories</b>			
Otto E1EB2CC131	Vireo 1-wire ear bud with in line mic/PTT	\$ 10.00	\$ 6.28
<b>Listen Only</b>			
Otto V1-10432	Earpiece to use with Otto speaker mics - right angle plug	\$ 48.00	\$ 30.12
Otto V1-EH2R131	D-hanger style piece to use with Otto speaker mics - right angle plug	\$ 28.00	\$ 17.57
<b>Optional PTT's</b>			
Otto V1-10513	Ring PTT to use with headsets with pigtails	\$ 30.00	\$ 18.83
Otto V1-10514	Flat PTT to use with headsets with pigtails	\$ 48.00	\$ 30.12
Otto V1-10515	Barrel PTT to use with headsets with pigtails	\$ 38.00	\$ 23.85
Otto V1-10519	80mm body PTT to use with headset with pigtails	\$ 120.00	\$ 75.30
<b>With Screw Down Connector</b>			
Otto V1-10756	2 Wire Palm Mic Kit - 2.5/3.5mm right angle	\$ 98.00	\$ 61.50
Otto E1-ET2CS131	2-Wire D-hanger with inline mic/PTT	\$ 32.00	\$ 20.08
Otto E1-EB2CS131	2-Wire earbud palm mic kit	\$ 30.00	\$ 18.83
Otto V4-10479	Lightweight single speaker headset with in-line PTT	\$ 121.00	\$ 75.93
Otto V4-BA2CS1	Breeze behind-the-head headset, single speaker, left boom mic, std PTT	\$ 107.00	\$ 67.14
Otto V4-BA2CS5	Breeze behind-the-head headset, single speaker, left boom mic, mini PTT	\$ 79.00	\$ 49.57
Otto V4-BA2CS3B	Breeze with in line PTT, with pigtail for remote PTT	\$ 118.00	\$ 74.05
Otto V4-EX2CS5	Explorer, lightweight, flexible earloop with boom mic, quick disconnect	\$ 118.00	\$ 74.05
Otto V4-HN2C3B	Hurricane, behind-the-head with in line PTT with pigtail jack for remote PTT options	\$ 304.00	\$ 190.76
Otto V2-10288	Evolution heavy duty speaker mic	\$ 113.00	\$ 70.91
Otto V2-L2CS11	Profile speaker mic	\$ 79.00	\$ 49.57
Otto V2-C2CS11	Legacy speaker mic	\$ 48.00	\$ 30.12

Prices subject to change, correction and pending GSA approval.

GSA Contract #: GS-35F-0109L

# ADVANCED PORTABLES

## F33G - F44G

*Radios are discontinued - special order only*

### VERSIONS

F33GS VHF with no keypad	
F33GS 56	136-174 MHz, 12.5/25 kHz
F43GS UHF with no keypad	
F43GS 91	400-470 MHz, 12.5/25 kHz
F43GS 82	450-512 MHz, 12.5/25 kHz
F33GT VHF With DTMF keypad	
F33GT 06	136-174 MHz, 12.5/25 kHz
F43GT UHF with DTMF keypad	
F43GT 41	400-470 MHz, 12.5/25 kHz
F43GT 32	450-512 MHz, 12.5/25 kHz

### FEATURES

Output Power:	5W (VHF); 4W (UHF)
Channels:	256
Channel Spacing:	12.5/25 kHz Switchable
PLL Channel Spacing:	2.5, 3.125
LCD Display:	14 seg. 8 character alphanumeric
Programmable keys:	8
Mil Spec:	810 C, D, E
Scan:	Normal & priority
Programmable:	PC with CS-F33G software
Weight:	9.2 oz (with BP-231)
Other Features:	Side mount speaker mic. jack Die cast aluminum chassis Emergency Call Companded audio

Included with radio: Antenna, battery (BP-232N), belt clip (MB-94) & owners manual

### SIGNALING

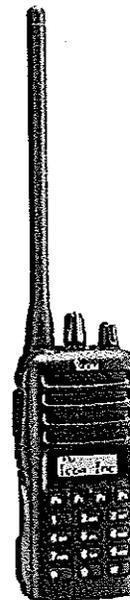
CTCSS/DCS encode/decode & DTMF ANI, 2/5 tone encode/decode standard  
MDC1200 encode/decode  
DTMF Decode Option: UT-108

### ENCRYPTION

Built-in simple inversion on all models  
Simple inversion: UT-109 02 32 Codes  
Rolling Code: UT-110 02 1020 Codes

### BATTERIES AND CHARGERS

BP-232N 2000 mAh Li-ion battery optional  
BC-121 6 Unit Rapid Charger (requires BC-154 power supply & (6) AD-106 adapter cups)  
BC-160 Rapid Charger



# F33G - F44G PRICING

*These radios are special order only*

Model		Retail	Open Market	20+	50+	100+	200+	400+
F33GS 56	136-174 MHz, 12.5/25 kHz channel spacing, no keypad (includes radio, antenna, BP-232N battery, belt clip and owners manual)	\$ 395.00	\$ 247.86	\$ 235.47	\$ 230.51	\$ 223.08	\$ 218.12	\$ 213.16
F33GS 56 DTC	With BC171 desktop trickle charger	\$ 440.00	\$ 276.10	\$ 262.30	\$ 256.77	\$ 248.49	\$ 242.97	\$ 237.45
F33GS 56 RC	With BC160 01 rapid charger	\$ 455.00	\$ 285.51	\$ 271.24	\$ 265.53	\$ 256.96	\$ 251.25	\$ 245.54
F43GS 91	400-470 MHz, 12.5/25 kHz channel spacing, no keypad (Includes radio, antenna, BP-232N battery, belt clip and owners manual)	\$ 415.00	\$ 260.41	\$ 247.39	\$ 242.18	\$ 234.37	\$ 229.16	\$ 223.95
F43GS 91 DTC	With BC171 desktop trickle charger	\$ 460.00	\$ 288.65	\$ 274.22	\$ 268.44	\$ 259.79	\$ 254.01	\$ 248.24
F43GS 91 RC	With BC160 01 rapid charger	\$ 475.00	\$ 298.06	\$ 283.16	\$ 277.20	\$ 268.26	\$ 262.30	\$ 256.33
F43GS 82	450-512 MHz, 12.5/25 kHz channel spacing, no keypad (Includes radio, antenna, BP-232N battery, belt clip and owners manual)	\$ 415.00	\$ 260.41	\$ 247.39	\$ 242.18	\$ 234.37	\$ 229.16	\$ 223.95
F43GS 82 DTC	With BC171 desktop trickle charger	\$ 460.00	\$ 288.65	\$ 274.22	\$ 268.44	\$ 259.79	\$ 254.01	\$ 248.24
F43GS 82 RC	With BC160 01 rapid charger	\$ 475.00	\$ 298.06	\$ 283.16	\$ 277.20	\$ 268.26	\$ 262.30	\$ 256.33

Prices are subject to change, corrections and pending GSA approvals.

GSA Contract#: GS-35F-0109L

# F33G - F43G ACCESSORIES

Model	Description	Retail	GSA
<b>Antennas (*These items are Open Market)</b>			
FA-SC25U*	Flexible Antenna for 400-430MHz UHF (Blue tip)	\$ 13.00	\$ 8.16
FA-SC25V*	Flexible Antenna for 136-155MHz VHF (Blue tip)	\$ 13.00	\$ 8.16
FA-SC55V*	Flexible Antenna for 146-174 MHz VHF (Red tip)	\$ 13.00	\$ 8.16
FA-SC57U*	Flexible Antenna for 440-470MHz UHF (Red tip)	\$ 13.00	\$ 8.16
FA-SC72U*	Flexible Antenna for 470-520MHz UHF (Green tip)	\$ 14.50	\$ 9.10
FA-SC56VS*	Stubby antenna 150-160MHz (red ring)	\$ 1.50	\$ 0.94
FA-SC56VS UPGRADE	Pull standard antenna and sub with FASC56VS	\$ 14.50	\$ 9.10
FA-SC57VS*	Stubby antenna 160-174MHz (green ring)	\$ 1.50	\$ 0.94
FA-SC57VS UPGRADE	Pull standard antenna and sub with FASC57VS	\$ 14.50	\$ 9.10
FA-SC73US*	Stubby antenna 450-470MHz (red ring)	\$ 1.50	\$ 0.94
FA-SC73US UPGRADE	Pull standard antenna and sub with FASC73US	\$ 16.00	\$ 10.04
FA-SC61UC	380-512 MHz (can be cut to tune to the center frequency you wish to set)	\$ 3.00	\$ 1.88
FA-SC61UC UPGRADE	Pull standard antenna and sub with FASC61UC	\$ 16.00	\$ 10.04
FA-SC61VC	136-174 MHz (can be cut to tune to the center frequency you wish to set)	\$ 3.00	\$ 1.88
FA-SC61VC UPGRADE	Pull standard antenna and sub with FASC61VC		
<b>Batteries</b>			
BP-232N	7.2V 2000 mAh Li-Ion battery	\$ 65.00	\$ 40.79
BP-240	AAA Alkaline Battery Case (holds 6) *No batteries included	\$ 34.00	\$ 19.69
<b>Belt Clip</b>			
MB-93	Swivel Belt Clip	\$ 10.00	\$ 6.28
MB-94	Alligator Belt Clip (standard belt clip)	\$ 10.50	\$ 6.59
MB-96N	Swivel leather belt hanger (use with MB93)	\$ 28.00	\$ 17.57
MB-96F	Fixed leather belt hanger (use with MB94)	\$ 28.00	\$ 17.57
<b>Cables</b>			
CP-17L	Cigarette lighter cable 12V for BC119N and BC121N	\$ 26.00	\$ 16.32
OPC-515L	DC power cable - for use with BC119N (12-16V DC required)	\$ 23.00	\$ 14.43
OPC-656	DC power cable - for use with BC121N (12-16V DC required)	\$ 10.50	\$ 6.59
<b>Chargers</b>			
AD-106	Adapter cup for BC119N rapid charger & BC121N 6 unit multi charger	\$ 23.00	\$ 14.43
BC-119N 01	117V Desktop Rapid Charger (requires AD106 adapter cup)	\$ 72.00	\$ 45.18
BC-119N 02	117V Desktop Rapid Charger (requires AD106 adapter cup)	\$ 74.00	\$ 46.44
BC-121N	Multi-Unit (6) Desktop Charger (BC-157 & AD106 adapter cups req.)	\$ 305.00	\$ 191.39
BC-121N AD106 KIT	117V Multi Unit Charger Kit (includes BC157 and 6 AD106)	\$ 563.00	\$ 353.28
BC-121N AD106 220V KIT	220V Multi Unit Charger Kit (includes BC157 and 6 AD106)	\$ 569.00	\$ 357.05
BC-157 02	117V Power supply for BC121N Multi Unit Charger	\$ 115.00	\$ 72.16
BC-157 04	220V Power supply for BC121N Multi Unit Charger	\$ 120.00	\$ 75.30
BC-145SA 31	117V AC Adapter for BC119N (included with BC119N)	\$ 25.00	\$ 9.66
BC-145SE 32	220V AC Adapter for BC119N (included with BC119N)	\$ 25.00	\$ 15.69
BC-147SA 14	117V AC adapter for BC171 01	\$ 15.00	\$ 7.25
BC-147SE 15	220V AC adapter for BC171 02	\$ 16.00	\$ 10.04
BC-160 01	117V Desktop Rapid Charger	\$ 68.00	\$ 42.67
BC-160 02	220V Desktop Rapid Charger	\$ 70.00	\$ 43.93
BC-171 01	110V Drop In Trickle Charger	\$ 45.00	\$ 28.24
BC-171 02	220V Drop In Trickle Charger	\$ 45.00	\$ 28.24
<b>Headsets (*These items are Open Market)</b>			
HS-94*	Ear-piece type headset for VS-1L	\$ 25.00	\$ 15.69
HS-95	Headset with boom mic for VS-1L	\$ 210.00	\$ 131.78
HS-97*	Earphone with throat mic for VS-1L	\$ 42.00	\$ 26.36
SP-13	Earphone for handhelds	\$ 5.00	\$ 3.04
VS-1L*	VOX/PTT unit (requires headset)	\$ 44.00	\$ 27.61
<b>Internal Modules</b>			
UT-108	DTMF Decoder	\$ 39.00	\$ 24.47
UT-109 02	Non-rolling voice scrambler. Up to 32 codes available (not compatible with UT110)	\$ 105.00	\$ 62.12
UT-110 02	Rolling code scrambler. Up to 1020 (255 x 4 groups) codes (available in conventional mode only)	\$ 173.00	\$ 108.56
UT-124	Man Down Unit	\$ 90.00	\$ 56.48
<b>Manuals</b>			
98814817	Owners Manual (F43G)	\$ 12.00	\$ 7.53
97714895	Service Manual	\$ 40.00	\$ 22.09
94414894	CD Service Manual	\$ 40.00	\$ 22.09
<b>Programming</b>			
CS-F33G	Programming Software	\$ 72.00	\$ 45.18
OPC-478	Programming cloning cable for PC to radio	\$ 52.00	\$ 32.44
OPC-478UC	Programming cloning cable (USB)	\$ 70.00	\$ 43.93
<b>Speaker Microphones</b>			
HM-153L	Durable earphone-microphone with revolving clip	\$ 120.00	\$ 75.30
HM-158L	Compact speaker microphone with screw-in connector	\$ 47.00	\$ 29.49
HM-159L LG	Full size durable speaker microphone (IP-X4) w/screw-in connector	\$ 77.00	\$ 48.32
HM-166L	Earphone microphone - medium duty	\$ 50.00	\$ 31.38
<b>Installation Charges (Open Market)</b>			
INSTALLLM1234	Installation charge for 1-25 radios	\$ 40.00	\$ 25.10
INSTALLLM1234	Installation charge for 25-49 radios	\$ 40.00	\$ 18.83
INSTALLLM1234	Installation charge for 50+ radios	\$ 40.00	\$ 12.55
<b>Programming Charges (Open Market)</b>			
PROGLM1234	Programming charge for 1-25 radios	\$ 42.00	\$ 26.36
PROGLM1234	Programming charge for 25-49 radios	\$ 42.00	\$ 15.69
PROGLM1234	Programming charge for 50+ radios	\$ 42.00	\$ 10.67
<b>Extended Warranty (Open Market)</b>			
EXTWARR211	1 year extended warranty for a total of 3 years	\$ 25.00	\$ 15.69
EXTWARR212	2 years extended warranty for a total of 4 years	\$ 44.00	\$ 27.61
EXTWARR213	3 years extended warranty for a total of 5 years	\$ 62.00	\$ 38.91

Prices are subject to change, corrections and pending GSA approvals.

GSA Contract #: GS-35F-0109L

# F33G - F43G PARTNER PRODUCTS

All Partner Products are Open Market.

Model	Description	Retail	Open Market
<b>Centurion Antenna</b>			
CEN EXD 400 MXI	Stubby antenna 400-430 MHz	\$ 14.00	\$ 8.79
CEN EXD 400 MXI UPGRADE	Pull standard antenna and sub CEN EXD 400 MXI	\$ 2.00	\$ 1.26
<b>Bee Cases</b>			
LCF33 LOOP	Leather case with a loop	\$ 40.00	\$ 25.10
LCF33 CLIP	Leather case with a clip	\$ 45.00	\$ 28.24
LCF33 SWIVEL	Leather case with a swivel	\$ 50.00	\$ 31.38
NCF33 CLIP	Nylon carrying case with a clip	\$ 30.00	\$ 18.83
NCF33 LOOP	Nylon carrying case with a loop	\$ 25.00	\$ 15.69
<b>Otto Accessories</b>			
Otto E1EB2CC131	Vireo 1-wire ear bud with in line mic/PTT	\$ 10.00	\$ 6.28
<b>Listen Only</b>			
Otto V1-10432	Earpiece to use with Otto speaker mics - right angle plug	\$ 48.00	\$ 30.12
Otto V1-EH22R131	D-hanger style piece to use with Otto speaker mics - right angle plug	\$ 28.00	\$ 17.57
<b>Optional PTT's</b>			
Otto V1-10513	Ring PTT to use with headsets with pigtailed	\$ 30.00	\$ 18.83
Otto V1-10514	Flat PTT to use with headsets with pigtailed	\$ 48.00	\$ 30.12
Otto V1-10515	Barrel PTT to use with headsets with pigtailed	\$ 38.00	\$ 23.85
Otto V1-10519	80mm body PTT to use with headset with pigtailed	\$ 120.00	\$ 75.30
<b>With Screw Down Connector</b>			
Otto V1-10756	2 Wire Palm Mic Kit - 2.5/3.5mm right angle	\$ 98.00	\$ 61.50
Otto E1-ET2CS131	2-Wire D-hanger with inline mic/PTT	\$ 32.00	\$ 20.08
Otto E1-EB2CS131	2-Wire earbud palm mic kit	\$ 30.00	\$ 18.83
Otto V4-10479	Lightweight single speaker headset with in-line PTT	\$ 121.00	\$ 75.93
Otto V4-BA2CS1	Breeze behind-the-head headset, single speaker, left boom mic, std PTT	\$ 107.00	\$ 67.14
Otto V4-BA2CS5	Breeze behind-the-head headset, single speaker, left boom mic, mini PTT	\$ 79.00	\$ 49.57
Otto V4-BA2CS3B	Breeze with in line PTT, with pigtail for remote PTT	\$ 118.00	\$ 74.05
Otto V4-EX2CS5	Explorer, lightweight, flexible earloop with boom mic, quick disconnect	\$ 118.00	\$ 74.05
Otto V4-HN2CS3B	Hurricane behind-the-head with in line PTT with pigtail jack for remote PTT options	\$ 304.00	\$ 190.76
Otto V2-10288	Evolution heavy duty speaker mic	\$ 113.00	\$ 70.91
Otto V2-L2CS11	Profile speaker mic	\$ 79.00	\$ 49.57
Otto V2-C2CS11	Legacy speaker mic	\$ 48.00	\$ 30.12

Prices are subject to change, corrections and pending GSA approvals.

GSA Contract #:  
GS-35F-0109L

# UHF TRUNKED RADIO F43TR

## VERSIONS

### Keypad Versions

F43TR 01	400-470 MHz, Keypad
F43TR 02	450-512 MHz, Keypad

### Non Keypad Versions

F43TR 51	400-470 MHz, No Keypad
F43TR 52	450-512 MHz, No Keypad

## CONVENTIONAL FEATURES

Output Power:	4W
Channels:	250 channels
Channel Spacing:	Wide/Narrow (12.5 kHz, 25 kHz)
PLL Channel Spacing:	5 kHz, 6.25 kHz
Display:	14-segment, 8-character alphanumeric
Programmable Keys:	10 PC programmable keys, which may be assigned functions
Mil Spec:	Mil Spec C, D & E
PC Programmable:	With CS-F43TR software
Included with radio:	Antenna, battery (BP-232N), belt clip, and owners manual

## LTR FEATURES

Number of Systems:	50 systems, with up to 250 groups per system
Channels:	Up to 20 channels per system, maximum 400 channels

## PASSPORT® FEATURES

PassPort® IDs:	60,000 useable IDs, individual mobile IDs and roamer IDs
Other features:	Wide area dispatch, ESN check, transmission Trunking & auto registration Built-in Receiver Signal Strength indicator (RSSI) enables seamless roaming

## TRUNKING

- \* LTR built-in with system/group text ID
- \* Conventional and talk around still available
- \* Fractional - N ultra high-speed PLL lock-up provides faster acquisition times and efficient Trunking performance

## OTHER FEATURES

- \* Scanning, time-out timer
- \* 10 segment character set may be toggled between system/group numbers or alpha names
- \* LTR polarity by system, home channel and area bit by system, TX and RX ID, and UID for PassPort®
- \* Conventional, system and group scan enable continuous contact without any action by the end-user

## SIGNALING

CTCSS, DTCS encode/decode & DTMF encode built-in	
DTMF decode:	UT-108

## ENCRYPTION

Simple inversion:	UT-109 02	32 codes
Rolling Code:	UT-110 02	1020 codes

## OTHER OPTIONS

Unit Down:	UT-124
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## BATTERIES AND CHARGERS

- BP-232N 2000 mAh Li-Ion battery standard with radio
- BC-160 Rapid Charger
- BC-121N AD106 KIT 6 Unit Charger (includes BC157 power supply and 6 AD-106 adapter cups)



# F43TR PRICING

Model	Description	Retail	GSA	25+	50+	75+	100+	150+
F43TR 51	400-470 MHz, multi-mode (12.5/25 kHz) without keypad (includes radio, antenna, BP-232N battery, belt clip and owners manual)	\$ 425.00	\$ 266.69	\$ 256.02	\$ 248.02	\$ 240.02	\$ 234.69	\$ 229.35
F43TR 51 RC	With BC-160 rapid charger	\$ 480.00	\$ 301.20	\$ 289.15	\$ 280.12	\$ 271.08	\$ 265.06	\$ 259.03
F43TR 52	450-512 MHz, multi-mode (12.5/25 kHz) without keypad (includes radio, antenna, BP-232N battery, belt clip and owners manual)	\$ 425.00	\$ 266.69	\$ 256.02	\$ 248.02	\$ 240.02	\$ 234.69	\$ 229.35
F43TR 52 RC	With BC-160 rapid charger	\$ 480.00	\$ 301.20	\$ 289.15	\$ 280.12	\$ 271.08	\$ 265.06	\$ 259.03

Prices are subject to change, corrections and pending GSA approvals.

GSA Contract #  
GS-35F-0109L

# F43TR ACCESSORIES

Model	Description	Retail	GSA
<b>Antennas (*These items are Open Market)</b>			
FA-SC25U*	Flexible Antenna for 400-430 MHz (green tip)	\$ 13.00	\$ 8.16
FA-SC57U*	Flexible Antenna for 440-470 MHz (standard with radio)	\$ 13.00	\$ 8.16
FA-SC61UC	380-512 MHz cut antenna to frequency needed	\$ 16.00	\$ 10.04
FA-SC61UC UPGRADE	Pull standard antenna and sub FASC61UC	\$ 3.00	\$ 1.88
FA-SC72U*	Flexible Antenna for 470-520MHz (blue tip)	\$ 13.00	\$ 8.16
FA-SC73US*	Stubby antenna 450-490 MHz	\$ 14.50	\$ 9.10
FA-SC73US UPGRADE	Pull standard antenna and sub FASC73US	\$ 1.50	\$ 0.94
<b>Batteries</b>			
BP-232N	7.2V 2000 mAh Li-Ion batter (standard battery)	\$ 65.00	\$ 40.79
<b>Belt Clips</b>			
MB-93	Swivel Belt Clip	\$ 10.00	\$ 6.28
MB-94	Alligator Belt Clip (standard with radio)	\$ 10.50	\$ 6.59
MB-96N	Swivel Leather belt hanger (use with MB93)	\$ 28.00	\$ 17.57
MB-96F	Fixed Leather belt hanger (use with MB94)	\$ 28.00	\$ 17.57
<b>Chargers</b>			
AD-106	Adapter for BC119N rapid charger & BC121N Multi unit charger	\$ 23.00	\$ 14.43
BC-119N 01	117V Desktop Rapid Charger (requires AD106)	\$ 72.00	\$ 45.18
BC-119N 02	220V Desktop Rapid Charger (requires AD106)	\$ 74.00	\$ 46.44
BC-121N	Multi-unit (6) Desktop Charger (BC157 and (6) AD106 required)	\$ 305.00	\$ 191.39
BC-121N AD106 KIT	117V Complete Multi Unit Charger Kit (includes BC157 and 6 AD106)	\$ 563.00	\$ 353.28
BC-121N AD106 220V KIT	220V Complete Multi Unit Charger Kit (includes BC157 and 6 AD106)	\$ 569.00	\$ 357.05
BC-157 02	117V Power supply for BC121N	\$ 115.00	\$ 72.16
BC-157 04	220V Power supply for BC121N	\$ 120.00	\$ 75.30
BC-145SA 31	117V AC adapter for BC143/BC119N	\$ 25.00	\$ 9.66
BC-145SE 32	220V AC adapter for BC143/BC119N	\$ 25.00	\$ 15.69
BC-160 01	117V Desktop Rapid Charger (BC145A included)	\$ 68.00	\$ 42.67
BC-160 02	220V Desktop Rapid Charger (BC145A included)	\$ 70.00	\$ 43.93
<b>Headsets (*These items are Open Market)</b>			
HS-94*	Ear-piece type headset for VS-1L	\$ 25.00	\$ 15.69
HS-95	Headset with boom mic for VS-1L	\$ 210.00	\$ 131.78
HS-97*	Earphone with throat mic for VS-1L	\$ 42.00	\$ 26.36
VS-1L*	VOX/PTT unit (requires headset)	\$ 44.00	\$ 27.61
SP-13	Earphone for handhelds compatible with HM46L & HM158L	\$ 5.00	\$ 3.04
<b>Internal Modules</b>			
UT-108	DTMF decoder	\$ 39.00	\$ 24.47
UT-109 02	Non-rolling voice scrambler. Up to 32 codes available (not compatible with UT110)	\$ 105.00	\$ 65.89
UT-110 02	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes (available in conventional mode only)	\$ 173.00	\$ 108.56
UT-124	Man down unit	\$ 90.00	\$ 56.48
<b>Manuals</b>			
98814817	Owners Manual	\$ 12.00	\$ 7.53
94414815	CD Service Manual	\$ 40.00	\$ 22.09
97714816	Service Manual	\$ 40.00	\$ 22.09
<b>Programming Software and Cables</b>			
CS-F43TR	Programming software	\$ 72.00	\$ 45.18
OPC-478	Programming Cloning Cable for PC to Radio wit RC232S connector	\$ 52.00	\$ 32.44
OPC-478UC	Programming Cloning Cable for PC to Radio with USB connector	\$ 70.00	\$ 43.93
<b>Speaker Microphones</b>			
HM-153L	Durable earphone-microphone with revolving clip	\$ 120.00	\$ 75.30
HM-158L	Compact speaker microphone with screw-in connector	\$ 47.00	\$ 29.49
HM-159L	Full size durable speaker microphone (IP-X4) w/screw-in connector	\$ 77.00	\$ 48.32
HM-166L	Earphone microphone - medium duty	\$ 50.00	\$ 31.38
<b>Installation Charges (Open Market)</b>			
INSTALLM1234	Installation charge for 1-25 radios	\$ 40.00	\$ 25.10
INSTALLM1234	Installation charger for 25-49 radios	\$ 40.00	\$ 18.83
INSTALLM1234	Installation charge for 50+ radios	\$ 40.00	\$ 12.55
<b>Programming Charges (Open Market)</b>			
PROGLM1234	Programming charge for 1-25 radios	\$ 42.00	\$ 26.36
PROGLM1234	Programming charger for 25-49 radios	\$ 42.00	\$ 15.69
PROGLM1234	Programming charge for 50+ radios	\$ 42.00	\$ 10.67
<b>Extended Warranty (Open Market)</b>			
EXTWARR211	1 year extended warranty for a total of 3 years	\$ 25.00	\$ 15.69
EXTWARR212	2 years extended warranty for a total of 4 years	\$ 44.00	\$ 27.61
EXTWARR213	3 years extended warranty for a total of 5 years	\$ 62.00	\$ 38.91

Prices are subject to change, corrections and pending GSA approvals.

GSA Contract #  
GS-35F-0109L

# F43TR PARTNER PRODUCTS

All Partner Products are Open Market.

Model	Description	Retail	Open Market
<b>Bee Cases</b>			
LCF33 LOOP	Leather Case with a loop	\$ 40.00	\$ 25.10
LCF33 CLIP	Leather Case with a clip	\$ 45.00	\$ 28.24
LCF33 SWIVEL	Leather Case with a swivel	\$ 50.00	\$ 31.38
NCF33 CLIP	Nylon Carrying Case with a clip	\$ 30.00	\$ 18.83
NCF33 LOOP	Nylon Carrying Case with a loop	\$ 35.00	\$ 21.96
<b>Otto Accessories</b>			
Otto E1EB2CC131	Vireo 1-wire ear bud with in line mic/PTT	\$ 10.00	\$ 6.28
<b>Listen Only</b>			
Otto V1-10432	Earpiece to use with Otto speaker mics - right angle plug	\$ 48.00	\$ 30.12
Otto V1-EH22R131	D-hanger style piece to use with Otto speaker mics - right angle plug	\$ 28.00	\$ 17.57
<b>Optional PTT's</b>			
Otto V1-10513	Ring PTT to use with headsets with pigtailed	\$ 30.00	\$ 18.83
Otto V1-10514	Flat PTT to use with headsets with pigtailed	\$ 48.00	\$ 30.12
Otto V1-10515	Barrel PTT to use with headsets with pigtailed	\$ 38.00	\$ 23.85
Otto V1-10519	80mm body PTT to use with headset with pigtailed	\$ 120.00	\$ 75.30
<b>With Screw Down Connector</b>			
Otto V1-10756	2 Wire Palm Mic Kit - 2.5/3.5mm right angle	\$ 98.00	\$ 61.50
Otto E1-ET2CS131	2-Wire D-hanger with inline mic/PTT	\$ 32.00	\$ 20.08
Otto E1-EB2CS131	2-Wire earbud palm mic kit	\$ 30.00	\$ 18.83
Otto V4-10479	Lightweight single speaker headset with in-line PTT	\$ 121.00	\$ 75.93
Otto V4-BA2CS1	Breeze behind-the-head headset, single speaker, left boom mic, std PTT	\$ 107.00	\$ 67.14
Otto V4-BA2CS5	Breeze behind-the-head headset, single speaker, left boom mic, mini PTT	\$ 79.00	\$ 49.57
Otto V4-BA2CS3B	Breeze with in line PTT, with pigtail for remote PTT	\$ 118.00	\$ 74.05
Otto V4-EX2CS5	Explorer, lightweight, flexible earloop with boom mic, quick disconnect	\$ 118.00	\$ 74.05
Otto V4-HN2C3B	Hurricane behind-the-head with in line PTT with pigtail jack for remote PTT options	\$ 304.00	\$ 190.76
Otto V2-10288	Evolution heavy duty speaker mic	\$ 113.00	\$ 70.91
Otto V2-L2CS11	Profile speaker mic	\$ 79.00	\$ 49.57

Prices are subject to change, corrections and pending GSA approvals.

GSA Contract #  
GS-35F-0109L

# WATERPROOF PORTABLE F50 - F60



## VERSIONS

F50V/F60V BTL Audio Versions (no voice/vibrate)

F50V 01	136-174 MHz
F60V 01	400-470 MHz
F60V 16	450-512 MHz

F50 21 is now the F50V 01, F60 21/22 is now the F60V 01/16

## SCRAMBLER INSTALLED VERSIONS

F50/F60 Built-in UT-110 voice scrambler	
F50 31	136-174 MHz, 12.5/25 kHz
F60 31	400-470 MHz, 12.5/25 kHz
F60 32	450-512 MHz, 12.5/25 kHz

## I.S. VERSIONS

F50/F60 Built-in UT-110 voice scrambler	
F50 81	136-174 MHz, 12.5/25 kHz
F60 81	400-470 MHz, 12.5/25 kHz
F60 82	450-512 MHz, 12.5/25 kHz

## FEATURES

Output Power:	5W (VHF), 4W (UHF)
Channels:	128 with 8 memory banks
Channel Spacing:	12.5/25 kHz
PLL Channel Spacing:	2.5/3.125 kHz, 5/6.25 kHz
Display:	8 character
Programmable Keys:	7
Mil Spec:	810 C, D, E
Scan:	Normal & priority
Programmable:	PC with CS-F50/V software
Weight:	9.9 oz
Other features:	IP-X7 (JIS-7) grade waterproof submersible) Large speaker for clear audio Up/Down Programmable Keys Multi-pin accessory connector SMA antenna connector

Included with radio: Antenna, battery (BP-227), belt clip (MB-98) & owners manual

## SIGNALING

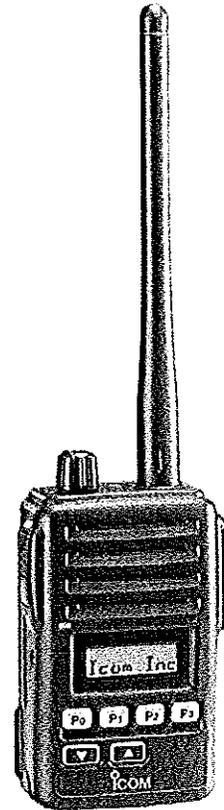
Multi-2/5 tone built in; MDC1200 standard  
CTCSS/DTCS encode/decode built-in

## ENCRYPTION

Inversion scrambler built-in to all versions  
Rolling Code: Built-in on certain versions

## BATTERIES AND CHARGERS

BP-227 7.2V / 1700 mAh Li-Ion battery standard with radio  
BP-226 AA battery case optional  
BC-152 Drop-in trickle charger  
BC-119N-51-Rapid charger (includes AD110 adapter-cup)  
BC-190 Sensing charger  
BC121 6 Unit Rapid charger (requires BC157 power supply and 6 each of AD100)



# F50V - F60V PRICING (NO VOICE/VIBRATE)

Model #	Description	Retail	GSA	20+	50+	100+	200+	400+
F50V 01	136-174 MHz, BTL Audio, 12.5/25 kHz Channel Spacing, 128 channels (Includes radio, antenna, BP-227 battery, belt clip and owners manual)	\$ 520.00	\$ 326.30	\$ 309.99	\$ 303.46	\$ 293.67	\$ 287.14	\$ 277.36
F50V 01 DTC	With BC152 01 Drop-In Trickle Charger & BC147 AC Adapter	\$ 575.00	\$ 360.81	\$ 342.77	\$ 335.56	\$ 324.73	\$ 317.52	\$ 306.69
F50V 01 SC	With BC-190 01 Sensing Charger (includes BC-145 AC adapter)	\$ 598.00	\$ 375.25	\$ 356.48	\$ 348.98	\$ 337.72	\$ 330.22	\$ 318.96
F50V 01 RC	With BC119N 51 Rapid Charger (includes AD100 adapter cup)	\$ 615.00	\$ 385.91	\$ 366.62	\$ 358.90	\$ 347.32	\$ 339.60	\$ 328.03
F60V 01	400-470 MHz, BTL audio, 12.5/25 kHz Channel Spacing, 128 channels (includes radio, antenna, BP-227 battery, belt clip and owners manual)	\$ 520.00	\$ 326.30	\$ 309.99	\$ 303.46	\$ 293.67	\$ 287.14	\$ 277.36
F60V 01 DTC	With BC152 01 Drop-In Trickle Charger & BC147 AC Adapter	\$ 575.00	\$ 360.81	\$ 342.77	\$ 335.56	\$ 324.73	\$ 317.52	\$ 306.69
F60V 01 SC	With BC-190 01 Sensing Charger (includes BC-145 AC adapter)	\$ 598.00	\$ 375.25	\$ 356.48	\$ 348.98	\$ 337.72	\$ 330.22	\$ 318.96
F60V 01 RC	With BC119N 51 Rapid Charger (includes AD100 adapter cup)	\$ 615.00	\$ 385.91	\$ 366.62	\$ 358.90	\$ 347.32	\$ 339.60	\$ 328.03
F60V 16	450-512 MHz, BTL audio, 12.5/25 kHz Channel Spacing, 128 channels (includes radio, antenna, BP-227 battery, belt clip and owners manual)	\$ 520.00	\$ 326.30	\$ 309.99	\$ 303.46	\$ 293.67	\$ 287.14	\$ 277.36
F60V 16 DTC	With BC152 01 Drop-In Trickle Charger & BC147 AC Adapter	\$ 575.00	\$ 360.81	\$ 342.77	\$ 335.56	\$ 324.73	\$ 317.52	\$ 306.69
F60V 16 SC	With BC-190 01 Sensing Charger (includes BC-145 AC adapter)	\$ 598.00	\$ 375.25	\$ 356.48	\$ 348.98	\$ 337.72	\$ 330.22	\$ 318.96
F60V 16 RC	With BC119N 51 Rapid Charger (includes AD100 adapter cup)	\$ 615.00	\$ 385.91	\$ 366.62	\$ 358.90	\$ 347.32	\$ 339.60	\$ 328.03

# F50 - F60 WITH UT-110 SCRAMBLER PRICING

Model	Description	Retail	GSA	20+	50+	100+	200+
F50 31	136-174 MHz, 12.5/25 kHz channel spacing, 128 channels (includes radio, antenna, BP-227 battery, belt clip and owners manual)	\$ 665.00	\$ 417.29	\$ 396.42	\$ 388.08	\$ 375.56	\$ 367.21
F50 31 DTC	With BC152 01 Drop-In Trickle Charger & BC147 AC Adapter	\$ 720.00	\$ 451.80	\$ 429.21	\$ 420.17	\$ 406.62	\$ 397.58
F50 31 SC	With BC-190 01 Sensing Charger (includes BC-145 AC adapter)	\$ 743.00	\$ 466.23	\$ 442.92	\$ 433.60	\$ 419.61	\$ 410.28
F50 31 RC	With BC119N 51 Rapid Charger (includes AD100 adapter cup)	\$ 760.00	\$ 476.90	\$ 453.06	\$ 443.52	\$ 429.21	\$ 419.67
F60 31	400-470 MHz, 12.5/25 kHz channel spacing, 128 channels (includes radio, antenna, BP-227 battery, belt clip and owners manual)	\$ 675.00	\$ 423.56	\$ 402.38	\$ 393.91	\$ 381.21	\$ 372.74
F60 31 DTC	With BC152 01 Drop-In Trickle Charger & BC147 AC Adapter	\$ 730.00	\$ 458.08	\$ 435.17	\$ 426.01	\$ 412.27	\$ 403.11
F60 31 SC	With BC-190 01 Sensing Charger (includes BC-145 AC adapter)	\$ 753.00	\$ 472.51	\$ 448.88	\$ 439.43	\$ 425.26	\$ 415.81
F60 31 RC	With BC119N 51 Rapid Charger (includes AD100 adapter cup)	\$ 770.00	\$ 483.18	\$ 459.02	\$ 449.35	\$ 434.86	\$ 425.19
F60 32	450-512 MHz, 12.5/25 kHz channel spacing, 128 channels (includes radio, antenna, BP-227 battery, belt clip and owners manual)	\$ 675.00	\$ 423.56	\$ 402.38	\$ 393.91	\$ 381.21	\$ 372.74
F60 32 DTC	With BC152 01 Drop-In Trickle Charger & BC147 AC Adapter	\$ 730.00	\$ 458.08	\$ 435.17	\$ 426.01	\$ 412.27	\$ 403.11
F60 32 SC	With BC-190 01 Sensing Charger (includes BC-145 AC adapter)	\$ 753.00	\$ 472.51	\$ 448.88	\$ 439.43	\$ 425.26	\$ 415.81
F60 32 RC	With BC119N 51 Rapid Charger (includes AD100 adapter cup)	\$ 770.00	\$ 483.18	\$ 459.02	\$ 449.35	\$ 434.86	\$ 425.19

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GSA Contract #: GS-35F-0109L

# F50 - F60 I.S. WITH UT-110 SCRAMBLER PRICING

Model	Description	Retail	GSA	20+	50+	100+	200+	400+
F50 81	136-174 MHz, 12.5/25 kHz channel spacing, 128 channels, MDC1200 (Includes radio, antenna, BP-227FM battery, belt clip and owners manual)	\$ 675.00	\$ 423.56	\$ 402.38	\$ 393.91	\$ 381.21	\$ 372.74	\$ 360.03
F50 81 DTC	With BC152 01 Drop-In Trickle Charger & BC-147 AC Adapter	\$ 730.00	\$ 458.08	\$ 435.17	\$ 426.01	\$ 412.27	\$ 403.11	\$ 389.36
F50 81 SC	With BC-190 01 Sensing Charger (includes BC-145 AC adapter)	\$ 753.00	\$ 472.51	\$ 448.88	\$ 439.43	\$ 425.26	\$ 415.81	\$ 401.63
F50 81 RC	With BC-119N 51 Rapid Charger (includes AD100 adapter cup)	\$ 770.00	\$ 483.18	\$ 459.02	\$ 449.35	\$ 434.86	\$ 425.19	\$ 410.70
F60 81	400-470 MHz, 12.5/25 kHz channel spacing, 128 channels, MDC1200 (Includes radio, antenna, BP-227FM battery, belt clip and owners manual)	\$ 695.00	\$ 436.11	\$ 414.31	\$ 405.58	\$ 392.50	\$ 383.78	\$ 370.70
F60 81 DTC	With BC152 01 Drop-In Trickle Charger & BC-147 AC Adapter	\$ 750.00	\$ 470.63	\$ 447.09	\$ 437.68	\$ 423.56	\$ 414.15	\$ 400.03
F60 81 SC	With BC-190 01 Sensing Charger (includes BC-145 AC adapter)	\$ 773.00	\$ 485.06	\$ 460.80	\$ 451.10	\$ 436.55	\$ 426.85	\$ 412.30
F60 81 RC	With BC-119N 51 Rapid Charger (includes AD100 adapter cup)	\$ 790.00	\$ 495.73	\$ 470.94	\$ 461.02	\$ 446.15	\$ 436.24	\$ 421.37
F60 82	450-512 MHz, 12.5/25 kHz channel spacing, 128 channels, MDC1200 (Includes radio, antenna, BP-227FM battery, belt clip and owners manual)	\$ 695.00	\$ 436.11	\$ 414.31	\$ 405.58	\$ 392.50	\$ 383.78	\$ 370.70
F60 82 DTC	With BC152 01 Drop-In Trickle Charger & BC-147 AC Adapter	\$ 750.00	\$ 470.63	\$ 447.09	\$ 437.68	\$ 423.56	\$ 414.15	\$ 400.03
F60 82 SC	With BC-190 01 Sensing Charger (includes BC-145 AC adapter)	\$ 773.00	\$ 485.06	\$ 460.80	\$ 451.10	\$ 436.55	\$ 426.85	\$ 412.30
F60 82 RC	With BC-119N 51 Rapid Charger (includes AD100 adapter cup)	\$ 790.00	\$ 495.73	\$ 470.94	\$ 461.02	\$ 446.15	\$ 436.24	\$ 421.37



Prices are subject to change, corrections and pending GSA approvals.

GSA Contract #:  
GS-35F-0109L

# F50 - F60 ACCESSORIES

Model	Description	Retail	GSA
<b>Antennas</b>			
FA-S24V	Flexible antenna for 136-150 MHz VHF (blue tip)	\$ 12.50	\$ 7.84
FA-S59V	Flexible antenna for 150-174 MHz VHF (red tip)	\$ 13.00	\$ 8.16
FA-S27U	Flexible antenna for 400-470 MHz UHF (green tip)	\$ 13.00	\$ 8.16
FA-S56U	Flexible antenna for 450-512 UHF (red tip)	\$ 12.50	\$ 7.84
FA-S74U	Flexible antenna for 470-520 MHz UHF (blue tip)	\$ 12.50	\$ 7.84
FA-S57US	Stubby antenna for 450-490 MHz	\$ 16.00	\$ 10.04
FA-S57US UPGRADE	Pull standard antenna and sub FAS57US	\$ 3.00	\$ 1.88
FA-S62VS	Stubby antenna 150-162 MHz	\$ 16.00	\$ 10.04
FA-S62VS UPGRADE	Pull standard antenna and sub FAS62VS	\$ 3.00	\$ 1.88
FA-S63VS	Stubby antenna 160-174 MHz	\$ 16.00	\$ 10.04
FA-S63VS UPGRADE	Pull standard antenna and sub FAS63VS	\$ 3.00	\$ 1.88
<b>Battery</b>			
BP-226	Alkaline battery case (requires 5 AA batteries)	\$ 45.00	\$ 28.24
BP-226 SUBSTITUTION	Sub standard battery with BP-226	\$ (49.00)	\$ (30.75)
BP-227	7.2V 1700 mAh Li-Ion battery pack	\$ 94.00	\$ 58.99
BP-227FM*	7.2V 1700 mAh Li-Ion IS battery pack	\$ 126.00	\$ 79.07
<b>Belt Clips</b>			
MB-86	Swivel belt clip	\$ 11.00	\$ 6.90
MB-98	Alligator type (standard with radio)	\$ 13.00	\$ 8.16
MB-96F	Fixed type belt hanger for use with MB98	\$ 28.00	\$ 17.57
MB-96N	Swivel type belt hanger for use with MB98	\$ 28.00	\$ 17.57
<b>Cables</b>			
CP-17L	Cigarette lighter plug-in cord for BC119N charger	\$ 26.00	\$ 16.32
OPC-515L	DC power cable	\$ 23.00	\$ 14.43
<b>Chargers</b>			
AD-100	Adapter cup for BC119N charger	\$ 27.00	\$ 16.94
BC-119N 01	117V Desktop rapid charger (requires AD110)	\$ 72.00	\$ 45.18
BC-119N 02	220V Desktop rapid charger (requires AD110)	\$ 74.00	\$ 46.44
BC-119N 51	BC119N charger with AD100 installed	\$ 99.00	\$ 62.12
BC-121N	Multi Unit Charger (requires BC157 and 6 AD100 adapters)	\$ 305.00	\$ 191.39
BC-121N F50	117V Complete Multi Unit Charger Kit (includes BC157 and 6 AD100)	\$ 587.00	\$ 368.34
BC-121N F50 220V	220V Complete Multi Unit Charger Kit (includes BC157 and 6 AD100)	\$ 593.00	\$ 372.11
BC-157 02	117V Power supply for the BC121N Multi-unit charger	\$ 115.00	\$ 72.16
BC-157 04	220V Power supply for the BC121N Multi-unit charger	\$ 120.00	\$ 75.30
BC-145SA 31	117V AC adapter for BC119 (included with BC119N 01)	\$ 25.00	\$ 9.66
BC-145SE 32	220V AC adapter for BC119 (included with BC119N 02)	\$ 25.00	\$ 15.69
BC-147SA 14	117V AC adapter for BC152	\$ 15.00	\$ 7.25
BC-147SE 15	220V AC adapter for BC152	\$ 22.00	\$ 13.81
BC-152 01	Drop in trickle charger, 9-10 hours charging time	\$ 42.00	\$ 26.36
BC-190 01	Sensing charger (recharges battery even after charging is finished)	\$ 79.00	\$ 49.57
<b>Manual</b>			
98814809	Owners Manual	\$ 12.00	\$ 7.53
97714806	F50 Service Manual	\$ 40.00	\$ 22.09
97714811	F60 Service Manual	\$ 40.00	\$ 22.09
94414804	CD Service Manual	\$ 40.00	\$ 22.09
<b>Software and Cables</b>			
CS-F50	Programming software	\$ 75.00	\$ 47.06
OPC-966	Cloning cable for PC to radio	\$ 168.00	\$ 39.48
OPC-966U	Cloning cable (USB)	\$ 168.00	\$ 105.42
<b>Speaker Microphones (*This item is Open Market)</b>			
HM-138*	IP-X7 (JIS-7) level waterproof speaker mic	\$ 110.00	\$ 69.03
HM-169	IP-X7 level waterproof speaker mic with longer belt clip	\$ 105.00	\$ 65.89
<b>Installation Charges (Open Market)</b>			
INSTALLM1234	Installation charge for 1-25 radios	\$ 40.00	\$ 25.10
INSTALLM1234	Installation charge for 25-49 radios	\$ 40.00	\$ 18.83
INSTALLM1234	Installation charge for 50+ radios	\$ 40.00	\$ 12.55
<b>Programming Charges (Open Market)</b>			
PROGLM1234	Programming charge for 1-25 radios	\$ 42.00	\$ 26.36
PROGLM1234	Programming charge for 25-49 radios	\$ 42.00	\$ 15.69
PROGLM1234	Programming charge for 50+ radios	\$ 42.00	\$ 10.67
<b>Extended Warranty (Open Market)</b>			
EXTWARR211	1 year extended warranty for a total of 3 years	\$ 25.00	\$ 15.69
EXTWARR212	2 years extended warranty for a total of 4 years	\$ 44.00	\$ 27.61
EXTWARR213	3 years extended warranty for a total of 5 years	\$ 62.00	\$ 38.91

\* These products are I.S. approved with the F50/F60 I.S. radios.

# F50 - F60 PARTNER PRODUCTS

All Partner Products are Open Market.

Model	Description	Retail	Open Market
<b>A &amp; W Enterprises</b>			
AW F50 AREA51	Durable water resistant case with unique swivel clip	\$ 35.00	\$ 21.96
AW F50 STUD	Stud that screws into the battery clip connection point	\$ 12.00	\$ 7.53
AW SWIVEL	Swivel belt clip to attach with AW cases and stud	\$ 13.00	\$ 8.16
AW F50 STUD/SWIVEL KIT	Stud and swivel together in a kit	\$ 21.00	\$ 13.18
<b>Bee Cases</b>			
LCF50 LOOP	Leather case with loop	\$ 40.00	\$ 25.10
LCF50 CLIP	Leather case with clip	\$ 45.00	\$ 28.24
LCF50 SWIVEL	Leather case with swivel	\$ 50.00	\$ 31.38
NCM88	Nylon carrying case with clip	\$ 26.00	\$ 16.32
<b>Centurion Antennas</b>			
CEN EXS 136 SMI	Stubby antenna for 136-150 MHz	\$ 14.00	\$ 8.79
CEN EXS 160 SMI	Stubby antenna for 160-174 MHz	\$ 14.00	\$ 8.79
CEN EXS 150 SMI	Stubby antenna for 150-160 MHz	\$ 14.00	\$ 8.79
CEN EXS 400 SMI	Stubby antenna for 400-420 MHz	\$ 14.00	\$ 8.79
CEN EXS 450 SMI	Stubby antenna for 450-470 MHz	\$ 14.00	\$ 8.79
CEN EXS 470 SMI	Stubby antenna for 470-512 MHz	\$ 14.00	\$ 8.79
<b>Otto Accessories</b>			
<b>Listen Only</b>			
Otto V110432	Earpiece to use with Otto speaker mics - right angle plug	\$ 48.00	\$ 30.12
Otto V1EH22R131	D-hanger piece to use with Otto speaker mics - right angle plug	\$ 28.00	\$ 17.57
<b>Option PTT's</b>			
Otto V110513	Ring PTT to use with headsets with pigtails	\$ 30.00	\$ 18.83
Otto V110514	Flat PTT to use with headsets with pigtails	\$ 50.00	\$ 31.38
Otto V110 515	Barrel PTT to use with headsets with pigtails	\$ 38.00	\$ 23.85
Otto V110 519	80mm body PTT to use with headsets with pigtails	\$ 120.00	\$ 75.30
<b>Accessories</b>			
Otto V110822	2-wire palm mic kit (black)	\$ 113.00	\$ 70.91
Otto V410514	Lightweight single speaker headset with in line PTT	\$ 135.00	\$ 84.71
Otto V4BA2CM1	Breeze behind-the-head headset, single speaker with left boom	\$ 109.00	\$ 68.40
Otto V4BA2CM3B	Breeze behind-the-head headset, in-line PTT, pigtail for remote PTT options	\$ 120.00	\$ 75.30
Otto V4EX2CM1	Explorer, lightweight, flexible earloop with boom mic	\$ 125.00	\$ 78.44
Otto V4HC2CM1	Hurricane, lightweight, dual ear, behind-the-head headset	\$ 317.00	\$ 198.92
Otto V2G2CM211	Genesis, waterproof speaker mic with removable grill	\$ 180.00	\$ 112.95
Otto V210315	H2O Evolution style speaker mic immersion rated (IP68)	\$ 140.00	\$ 87.85
Otto V210314	Evolution heavy duty speaker microphone	\$ 125.00	\$ 78.44
Otto V2L2CM11	Profile speaker microphone	\$ 91.00	\$ 57.10
<b>IS Approved Otto Accessories</b>			
Otto V410469S	Over the head, noise attenuating headset	\$ 405.00	\$ 254.14
Otto V410470S	Behind the head style, noise attenuating headset	\$ 450.00	\$ 282.38
Otto V2101273S	H2O evolution style speaker mic immersion rated (IP68)	\$ 166.00	\$ 104.17
Otto V210274S	Evolution heavy duty speaker mic	\$ 147.00	\$ 92.24

Prices are subject to change, corrections and pending GSA approvals.

GSA Contract #: GS-35F-0109L

# VOICE-VIBRATE-WATERPROOF PORTABLES F50V - F60V

## VERSIONS

BTL Audio, Voice & Vibrate Versions

F50V 11	136-174 MHz
F60V 11	400-470 MHz
F60V 18	450-512 MHz

## FEATURES

Output Power:	5W (VHF), 4W (UHF)
Channels:	128 with 8 memory banks
Channel Spacing:	12.5/25 kHz
PLL Channel Spacing:	2.5/3.125 kHz, 5/6.25 kHz
Display:	8 character
Programmable Keys:	7
Mil Spec:	810 C, D, E
Scan:	Normal & Priority
Programmable:	PC with CS-F50V software
Weight:	9.9 oz
Other features:	IP-67 waterproof (Submersible) and dust-tight 700mW AF power with BTL amplifier Vibration alert functions on specific versions 8 minute voice recorder on specific versions Lone worker function 2-step power saver 2-step low battery beep 17 scanning list memories Surveillance function 2-step low battery alert

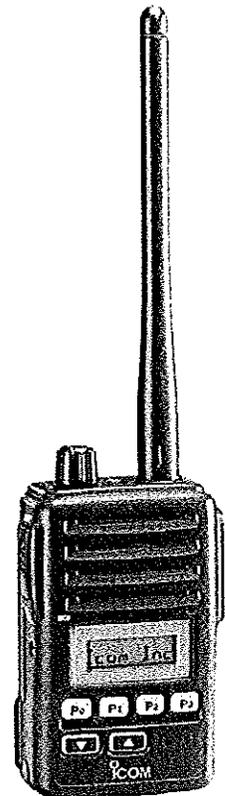
Included with Radio: Antenna, battery (BP-227), belt clip (MB-98) & owners manual

## SIGNALING

Multi-2/5 tone, MDC1200 built in  
CTCSS/DTCS encode/decode built-in

## BATTERIES AND CHARGERS

BP-227 7.2V / 1700 mAh Li-Ion battery standard with radio  
BP-226 AA battery case optional  
BC-152 Drop-in trickle charger  
BC-119N Rapid charger (requires AD100 adapter cup)  
BC-190 Sensing charger  
BC121N 6 Unit Rapid charger (requires BC157 power supply and 6 each of adapter cups)



# F50V - F60V BTL AUDIO, VOICE & VIBRATE PRICING

Model #	Description	Retail	GSA	20+	50+	100+	200+	400+
F50V 11	136-174 MHz, BTL Audio, Voice and Vibrate, 128 Channels (includes radio, antenna, BP-227 battery, belt clip and owners manual)	\$ 640.00	\$ 401.60	\$ 381.52	\$ 373.49	\$ 361.44	\$ 353.41	\$ 341.36
F50V 11 DTC	With BC152 01 Drop-In Trickle Charger & BC147 AC Adapter	\$ 695.00	\$ 436.11	\$ 414.31	\$ 405.58	\$ 392.50	\$ 383.78	\$ 370.70
F50V 11 SC	With BC-190 01 Sensing Charger (includes BC-145 AC adapter)	\$ 718.00	\$ 450.55	\$ 428.02	\$ 419.01	\$ 405.49	\$ 396.48	\$ 382.96
F50V 11 RC	With BC119N 51 Rapid Charger (includes AD100 adapter cup)	\$ 735.00	\$ 461.21	\$ 438.15	\$ 428.93	\$ 415.09	\$ 405.87	\$ 392.03
F60V 11	400-470 MHz, BTL audio, voice and vibrate, 128 Channels (includes radio, antenna, BP-227 battery, belt clip and owners manual)	\$ 640.00	\$ 401.60	\$ 381.52	\$ 373.49	\$ 361.44	\$ 353.41	\$ 341.36
F60V 11 DTC	With BC152 01 Drop-In Trickle Charger & BC147 AC Adapter	\$ 695.00	\$ 436.11	\$ 414.31	\$ 405.58	\$ 392.50	\$ 383.78	\$ 370.70
F60V 11SC	With BC-190 01 Sensing Charger (includes BC-145 AC adapter)	\$ 718.00	\$ 450.55	\$ 428.02	\$ 419.01	\$ 405.49	\$ 396.48	\$ 382.96
F60V 11 RC	With BC119N 51 Rapid Charger (includes AD100 adapter cup)	\$ 735.00	\$ 461.21	\$ 438.15	\$ 428.93	\$ 415.09	\$ 405.87	\$ 392.03
F60V 18	450-512 MHz, BTL audio, voice and vibrate, 128 Channels (includes radio, antenna, BP-227 battery, belt clip and owners manual)	\$ 640.00	\$ 401.60	\$ 381.52	\$ 373.49	\$ 361.44	\$ 353.41	\$ 341.36
F60V 18 DTC	With BC152 01 Drop-In Trickle Charger & BC147 AC Adapter	\$ 695.00	\$ 436.11	\$ 414.31	\$ 405.58	\$ 392.50	\$ 383.78	\$ 370.70
F60V 18 SC	With BC-190 01 Sensing Charger (includes BC-145 AC adapter)	\$ 718.00	\$ 450.55	\$ 428.02	\$ 419.01	\$ 405.49	\$ 396.48	\$ 382.96
F60V 18 RC	With BC119N 51 Rapid Charger (includes AD100 adapter cup)	\$ 735.00	\$ 461.21	\$ 438.15	\$ 428.93	\$ 415.09	\$ 405.87	\$ 392.03

Prices are subject to change, corrections and pending GSA approvals.

GSA Contract #: GS-35F-0109L

# F50V - F60V ACCESSORIES

Model	Description	Retail	GSA
<b>Antennas</b>			
FA-S24V	Flexible antenna for 136-150 MHz VHF (blue tip)	\$ 12.50	\$ 7.84
FA-S59V	Flexible antenna for 150-174 MHz VHF (red tip)	\$ 13.00	\$ 8.16
FA-S27U	Flexible antenna for 400-470 MHz UHF (green tip)	\$ 13.00	\$ 8.16
FA-S56U	Flexible antenna for 450-512 MHz UHF (red tip)	\$ 12.50	\$ 7.84
FA-S74U	Flexible antenna for 470-520 MHz UHF (blue tip)	\$ 12.50	\$ 7.84
FA-S57US	Stubby antenna for 450-490 MHz	\$ 16.00	\$ 10.04
FA-S57US UPGRADE	Pull standard antenna and sub FAS57US	\$ 3.00	\$ 1.88
FA-S62VS	Stubby antenna 150-162 MHz	\$ 16.00	\$ 10.04
FA-S62VS UPGRADE	Pull standard antenna and sub FAS62VS	\$ 3.00	\$ 1.88
FA-S63VS	Stubby antenna 160-174 MHz	\$ 16.00	\$ 10.04
FA-S63VS UPGRADE	Pull standard antenna and sub FAS63VS	\$ 3.00	\$ 1.88
<b>Battery</b>			
BP-226	Alkaline battery case (requires 5 AA batteries)	\$ 45.00	\$ 28.24
BP-226 SUBSTITUTION	Sub standard battery with BP-226	\$ (49.00)	\$ (30.75)
BP-227	7.2V 1700 mAh Li-Ion battery pack	\$ 94.00	\$ 58.99
BP-227FM*	7.2V 1700 mAh Li-Ion IS battery pack	\$ 126.00	\$ 79.07
<b>Belt Clips</b>			
MB-86	Swivel belt clip	\$ 11.00	\$ 6.90
MB-98	Alligator type (standard with radio)	\$ 13.00	\$ 8.16
MB-96F	Fixed type belt hanger for use with MB98	\$ 28.00	\$ 17.57
MB-96N	Swivel type belt hanger for use with MB98	\$ 28.00	\$ 17.57
<b>Cables</b>			
CP-17L	Cigarette lighter plug-in cord for BC119N charger	\$ 26.00	\$ 16.32
OPC-515L	DC power cable	\$ 23.00	\$ 14.43
<b>Chargers</b>			
AD-100	Adapter cup for BC119N charger	\$ 27.00	\$ 16.94
BC-119N 01	117V Desktop rapid charger (requires AD110)	\$ 72.00	\$ 45.18
BC-119N 02	220V Desktop rapid charger (requires AD110)	\$ 74.00	\$ 46.44
BC-119N 51	BC119N charger with AD100 installed	\$ 99.00	\$ 62.12
BC-121N	Multi Unit Charger (requires BC157 and 6 AD100 adapters)	\$ 305.00	\$ 191.39
BC-121N F50	117V Complete Multi Unit Charger Kit (includes BC157 and 6 AD100)	\$ 587.00	\$ 368.34
BC-121N F50 220V	220V Complete Multi Unit Charger Kit (includes BC157 and 6 AD100)	\$ 593.00	\$ 372.11
BC-157 02	117V Power supply for the BC121N Multi-unit charger	\$ 115.00	\$ 72.16
BC-157 04	220V Power supply for the BC121N Multi-unit charger	\$ 120.00	\$ 75.30
BC-145SA 31	117V AC adapter for BC119 (Included with BC119N 01)	\$ 25.00	\$ 9.66
BC-145SE 32	220V AC adapter for BC119 (Included with BC119N 02)	\$ 25.00	\$ 15.69
BC-147SA 14	117V AC adapter for BC152	\$ 15.00	\$ 7.25
BC-147SE 15	220V AC adapter for BC152	\$ 22.00	\$ 13.81
BC-152 01	Drop in trickle charger, 9-10 hours charging time	\$ 42.00	\$ 26.36
BC-190 01	Sensing charger (recharges battery even after charging is finished)	\$ 79.00	\$ 49.57
<b>Manual</b>			
98814809	Owners Manual	\$ 12.00	\$ 7.53
97714806	F50 Service Manual	\$ 40.00	\$ 22.09
97714811	F60 Service Manual	\$ 40.00	\$ 22.09
94414804	CD Service Manual	\$ 40.00	\$ 22.09
<b>Software and Cables</b>			
CS-F50V	Programming software	\$ 72.00	\$ 45.18
OPC-966	Cloning cable for PC to radio	\$ 168.00	\$ 99.48
OPC-966U	Cloning cable (USB)	\$ 168.00	\$ 105.42
<b>Speaker Microphones (*This Item Is Open Market)</b>			
HM-138*	IP-X7 (JIS-7) level waterproof speaker mic	\$ 110.00	\$ 69.03
HM-169	IP-X7 level waterproof speaker mic with longer belt clip	\$ 105.00	\$ 65.89
<b>Installation Charges (Open Market)</b>			
INSTALLM1234	Installation charge for 1-25 radios	\$ 40.00	\$ 25.10
INSTALLM1234	Installation charger for 25-49 radios	\$ 40.00	\$ 18.83
INSTALLM1234	Installation charge for 50+ radios	\$ 40.00	\$ 12.55
<b>Programming Charges (Open Market)</b>			
PROGLM1234	Programming charge for 1-25 radios	\$ 42.00	\$ 26.36
PROGLM1234	Programming charger for 25-49 radios	\$ 42.00	\$ 15.69
PROGLM1234	Programming charge for 50+ radios	\$ 42.00	\$ 10.67
<b>Extended Warranty (Open Market)</b>			
EXTWARR211	1 year extended warranty for a total of 3 years	\$ 25.00	\$ 15.69
EXTWARR212	2 years extended warranty for a total of 4 years	\$ 44.00	\$ 27.61
EXTWARR213	3 years extended warranty for a total of 5 years	\$ 62.00	\$ 38.91

\* These products are I.S. approved with the F50/F60 I.S. radios.

# F50V - F60V PARTNER PRODUCTS

All Partner Products are Open Market.

Model	Description	Retail	Open Market
<b>A &amp; W Enterprises</b>			
AW F50 AREA51	Durable water resistant case with unique swivel clip	\$ 35.00	\$ 21.96
AW F50 STUD/SWIVEL KIT	Stud and swivel together in a kit	\$ 21.00	\$ 13.18
<b>Bee Cases</b>			
LCF50 LOOP	Leather case with loop	\$ 40.00	\$ 25.10
LCF50 CLIP	Leather case with clip	\$ 45.00	\$ 28.24
LCF50 SWIVEL	Leather case with swivel	\$ 50.00	\$ 31.38
NCM88	Nylon carrying case with clip	\$ 26.00	\$ 16.32
<b>Centurion Antennas</b>			
CEN EXS 136 SMI	Stubby antenna for 136-150 MHz	\$ 14.00	\$ 8.79
CEN EXS 160 SMI	Stubby antenna for 160-174 MHz	\$ 14.00	\$ 8.79
CEN EXS 150 SMI	Stubby antenna for 150-160 MHz	\$ 14.00	\$ 8.79
CEN EXS 400 SMI	Stubby antenna for 400-420 MHz	\$ 14.00	\$ 8.79
CEN EXS 450 SMI	Stubby antenna for 450-470 MHz	\$ 14.00	\$ 8.79
CEN EXS 470 SMI	Stubby antenna for 470-512 MHz	\$ 14.00	\$ 8.79
<b>Otto Accessories</b>			
<b>Listen Only</b>			
Otto V110432	Earpiece to use with Otto speaker mics - right angle plug	\$ 48.00	\$ 30.12
Otto V1EH22R131	D-hanger piece to use with Otto speaker mics - right angle plug	\$ 28.00	\$ 17.57
<b>Option PTT's</b>			
Otto V110513	Ring PTT to use with headsets with pigtails	\$ 30.00	\$ 18.83
Otto V110514	Flat PTT to use with headsets with pigtails	\$ 50.00	\$ 31.38
Otto V110 515	Barrel PTT to use with headsets with pigtails	\$ 38.00	\$ 23.85
Otto V110 519	80mm body PTT to use with headsets with pigtails	\$ 120.00	\$ 75.30
<b>Accessories</b>			
Otto V110822	2-wire palm mic kit (black)	\$ 113.00	\$ 70.91
Otto V410514	Lightweight single speaker headset with in line PTT	\$ 135.00	\$ 84.71
Otto V4BA2CM1	Breeze behind-the-head headset, single speaker with left boom	\$ 109.00	\$ 68.40
Otto V4BA2CM3B	Breeze behind-the-head headset, in-line PTT, pigtail for remote PTT options	\$ 120.00	\$ 75.30
Otto V4EX2CM1	Explorer, lightweight, flexible earloop with boom mic	\$ 125.00	\$ 78.44
Otto V4HC2CM1	Hurricane, lightweight, dual ear, behind-the-head headset	\$ 317.00	\$ 198.92
Otto V2G2CM211	Genesis, waterproof speaker mic with removable grill	\$ 180.00	\$ 112.95
Otto V210315	H2O Evolution style speaker mic immersion rated (IP68)	\$ 140.00	\$ 87.85
Otto V210314	Evolution heavy duty speaker microphone	\$ 125.00	\$ 78.44
Otto V2L2CM11	Profile speaker microphone	\$ 91.00	\$ 57.10
<b>IS Approved Otto Accessories</b>			
Otto V410469S	Over the head, noise attenuating headset	\$ 405.00	\$ 254.14
Otto V410470S	Behind the head style, noise attenuating headset	\$ 450.00	\$ 282.38
Otto V2101273S	H2O evolution style speaker mic immersion rated (IP68)	\$ 166.00	\$ 104.17
Otto V210274S	Evolution heavy duty speaker mic	\$ 147.00	\$ 92.24

Prices are subject to change, corrections and pending GSA approvals.

GSA Contract #: GS-35F-0109L

# Conventional, LTR, PassPort or 6.25 Digital Portables F3161/D - F4161/D SERIES

## VERSIONS

F3161S/DS VHF without a keypad	
F3161S/DS	136-174 MHz
F3161T/DT VHF with DTMF keypad	
F3161T/DT	136-174 MHz
F4161S/DS UHF without a keypad	
F4161S/DS	400-470 MHz
F4161S/DS	450-512 MHz
F4161T/DT UHF with DTMF keypad	
F4161T/DT	400-470 MHz
F4161T/DT	450-512 MHz

## FEATURES

Output Power:	5W (VHF); 5W (UHF)
Channels:	512
Channel Spacing:	12.5/25 kHz Switchable & 6.25kHz (option)
PLL Channel Spacing:	2.5/3.125kHz
LCD Display:	Full dot-matrix
Programmable Keys:	8
Mil Spec:	810 C, D, E
Scan:	Normal & Priority
Programmable:	PC with CS-F3161/F5061 software
Weight:	12oz (with BP-232N)
Other Features:	Basic LTR/Conventional mixed mode operation IP55 dust protection & water resistance Lone worker function Voting mode scanning 9 pin multi-connector Die cast aluminum chassis Companded audio

Included with Radio: Antenna, battery (BP-232N), belt clip (MB-94) & owners manual  
Warranty: 3 Years

## SIGNALING

MDC1200, CTCSS/DCS encode/decode & DTMF decode, 2/5 tone encode/decode standard  
PassPort 2.8 & 4.0 optional

## ENCRYPTION

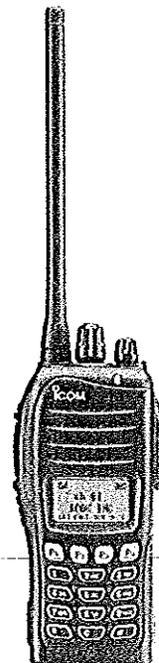
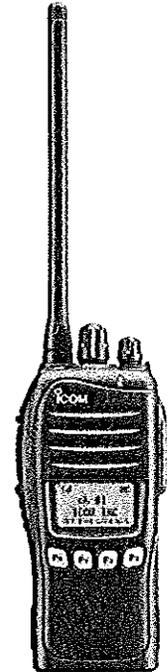
Built-in inversion on all models (not compatible with UT boards)  
Simple Inversion: UT-109R 32 Codes  
Rolling Code: UT-110R 1020 Codes

## DIGITAL

Digital: UT-126 (Required to use digital channels)

## BATTERIES AND CHARGERS

BP-232N 2000 mAh Li-Ion battery (standard on non I.S. versions)  
BC121N F33G 6 Unit Charger (includes BC157 power supply and 6 AD-106 adapter cups)  
BC-160 Rapid Charger



# F3161 - F4161 SERIES PRICING

## FM, Conventional LTR

Model	Description	Retail	GSA	20+	50+	100+	200+	400+
F3161S 51	136-174 MHz, no keypad (includes radio, antenna, BP-232N battery, belt clip and owners manual)	\$ 585.00	\$ 367.09	\$ 348.73	\$ 341.39	\$ 330.38	\$ 323.04	\$ 312.02
F3161S 51 DTC	With BC-171 01 drop-in trickle charger	\$ 627.00	\$ 393.44	\$ 373.77	\$ 365.90	\$ 354.10	\$ 346.23	\$ 334.43
F3161S 51 RC	With BC-160 01 rapid charger	\$ 650.00	\$ 407.88	\$ 387.48	\$ 379.32	\$ 367.09	\$ 358.93	\$ 346.69
F4161S 51	400-470 MHz, no keypad (includes radio, antenna, BP-232N battery, belt clip and owners manual)	\$ 585.00	\$ 367.09	\$ 348.73	\$ 341.39	\$ 330.38	\$ 323.04	\$ 312.02
F4161S 51 DTC	With BC-171 01 drop-in trickle charger	\$ 627.00	\$ 393.44	\$ 373.77	\$ 365.90	\$ 354.10	\$ 346.23	\$ 334.43
F4161S 51 RC	With BC-160 01 rapid charger	\$ 650.00	\$ 407.88	\$ 387.48	\$ 379.32	\$ 367.09	\$ 358.93	\$ 346.69
F4161S 56	450-512 MHz, no keypad (includes radio, antenna, BP-232N battery, belt clip and owners manual)	\$ 585.00	\$ 367.09	\$ 348.73	\$ 341.39	\$ 330.38	\$ 323.04	\$ 312.02
F4161S 56 DTC	With BC-171 01 drop-in trickle charger	\$ 627.00	\$ 393.44	\$ 373.77	\$ 365.90	\$ 354.10	\$ 346.23	\$ 334.43
F4161S 56 RC	With BC-160 01 rapid charger	\$ 650.00	\$ 407.88	\$ 387.48	\$ 379.32	\$ 367.09	\$ 358.93	\$ 346.69
F3161T 41	136-174 MHz, keypad (includes radio, antenna, BP-232N battery, belt clip and owners manual)	\$ 610.00	\$ 382.78	\$ 363.64	\$ 355.98	\$ 344.50	\$ 336.84	\$ 325.36
F3161T 41 DTC	With BC-171 01 drop-in trickle charger	\$ 652.00	\$ 409.13	\$ 388.67	\$ 380.49	\$ 368.22	\$ 360.03	\$ 347.76
F3161T 41 RC	With BC-160 01 rapid charger	\$ 675.00	\$ 423.56	\$ 402.38	\$ 393.91	\$ 381.21	\$ 372.74	\$ 360.03
F4161T 41	400-470 MHz, keypad (includes radio, antenna, BP-232N battery, belt clip and owners manual)	\$ 610.00	\$ 382.78	\$ 363.64	\$ 355.98	\$ 344.50	\$ 336.84	\$ 325.36
F4161T 41 DTC	With BC-171 01 drop-in trickle charger	\$ 652.00	\$ 409.13	\$ 388.67	\$ 380.49	\$ 368.22	\$ 360.03	\$ 347.76
F4161T 41 RC	With BC-160 01 rapid charger	\$ 675.00	\$ 423.56	\$ 402.38	\$ 393.91	\$ 381.21	\$ 372.74	\$ 360.03
F4161T 46	450-512 MHz, keypad (includes radio, antenna, BP-232N battery, belt clip and owners manual)	\$ 610.00	\$ 382.78	\$ 363.64	\$ 355.98	\$ 344.50	\$ 336.84	\$ 325.36
F4161T 46 DTC	With BC-171 01 drop-in trickle charger	\$ 652.00	\$ 409.13	\$ 388.67	\$ 380.49	\$ 368.22	\$ 360.03	\$ 347.76
F4161T 46 RC	With BC-160 01 rapid charger	\$ 675.00	\$ 423.56	\$ 402.38	\$ 393.91	\$ 381.21	\$ 372.74	\$ 360.03

# F3161 - F4161 SERIES PRICING (WITH EMDC)

## FM, Conventional LTR

Model	Description	Retail	GSA	20+	50+	100+	200+	400+
F3161S 51 EMDC	136-174 MHz, no keypad with Enhanced MDC (includes radio, antenna, BP-232N battery, belt clip and owners manual)	\$ 602.00	\$ 377.76	\$ 358.87	\$ 351.31	\$ 339.98	\$ 332.42	\$ 321.09
F3161S 51 DTC EMDC	With BC-171 01 drop-in trickle charger	\$ 644.00	\$ 404.11	\$ 383.90	\$ 375.82	\$ 363.70	\$ 355.62	\$ 343.49
F3161S 51 RC EMDC	With BC-160 01 rapid charger	\$ 667.00	\$ 418.54	\$ 397.62	\$ 389.24	\$ 376.69	\$ 368.32	\$ 355.76
F4161S 51 EMDC	400-470 MHz, no keypad with Enhanced MDC (includes radio, antenna, BP-232N battery, belt clip and owners manual)	\$ 602.00	\$ 377.76	\$ 358.87	\$ 351.31	\$ 339.98	\$ 332.42	\$ 321.09
F4161S 51 DTC EMDC	With BC-171 01 drop-in trickle charger	\$ 644.00	\$ 404.11	\$ 383.90	\$ 375.82	\$ 363.70	\$ 355.62	\$ 343.49
F4161S 51 RC EMDC	With BC-160 01 rapid charger	\$ 667.00	\$ 418.54	\$ 397.62	\$ 389.24	\$ 376.69	\$ 368.32	\$ 355.76
F4161S 56 EMDC	450-512 MHz, no keypad with Enhanced MDC (includes radio, antenna, BP-232N battery, belt clip and owners manual)	\$ 602.00	\$ 377.76	\$ 358.87	\$ 351.31	\$ 339.98	\$ 332.42	\$ 321.09
F4161S 56 DTC EMDC	With BC-171 01 drop-in trickle charger	\$ 644.00	\$ 404.11	\$ 383.90	\$ 375.82	\$ 363.70	\$ 355.62	\$ 343.49
F4161S 56 RC EMDC	With BC-160 01 rapid charger	\$ 667.00	\$ 418.54	\$ 397.62	\$ 389.24	\$ 376.69	\$ 368.32	\$ 355.76
F3161T 41 EMDC	136-174 MHz, keypad with Enhanced MDC (includes radio, antenna, BP-232N battery, belt clip and owners manual)	\$ 627.00	\$ 393.44	\$ 373.77	\$ 365.90	\$ 354.10	\$ 346.23	\$ 334.43
F3161T 41 DTC EMDC	With BC-171 01 drop-in trickle charger	\$ 669.00	\$ 419.80	\$ 398.81	\$ 390.41	\$ 377.82	\$ 369.42	\$ 356.83
F3161T 41 RC EMDC	With BC-160 01 rapid charger	\$ 692.00	\$ 434.23	\$ 412.52	\$ 403.83	\$ 390.81	\$ 382.12	\$ 369.10
F4161T 41 EMDC	400-470 MHz, keypad with Enhanced MDC (includes radio, antenna, BP-232N battery, belt clip and owners manual)	\$ 627.00	\$ 393.44	\$ 373.77	\$ 365.90	\$ 354.10	\$ 346.23	\$ 334.43
F4161T 41 DTC EMDC	With BC-171 01 drop-in trickle charger	\$ 669.00	\$ 419.80	\$ 398.81	\$ 390.41	\$ 377.82	\$ 369.42	\$ 356.83
F4161T 41 RC EMDC	With BC-160 01 rapid charger	\$ 692.00	\$ 434.23	\$ 412.52	\$ 403.83	\$ 390.81	\$ 382.12	\$ 369.10
F4161T 46 EMDC	450-512 MHz, keypad with Enhanced MDC (includes radio, antenna, BP-232N battery, belt clip and owners manual)	\$ 627.00	\$ 393.44	\$ 373.77	\$ 365.90	\$ 354.10	\$ 346.23	\$ 334.43
F4161T 46 DTC EMDC	With BC-171 01 drop-in trickle charger	\$ 669.00	\$ 419.80	\$ 398.81	\$ 390.41	\$ 377.82	\$ 369.42	\$ 356.83
F4161T 46 RC EMDC	With BC-160 01 rapid charger	\$ 692.00	\$ 434.23	\$ 412.52	\$ 403.83	\$ 390.81	\$ 382.12	\$ 369.10

# F3161 - F4161 SERIES PRICING (INTRINSICALLY SAFE)

## FM, Conventional LTR

Model	Description	Retail	GSA	20+	50+	100+	200+	400+
F3161S 55	136-174 MHz, no keypad, Intrinsically Safe (includes radio, antenna, BP-232N FM battery, belt clip and owners manual)	\$ 640.00	\$ 401.60	\$ 381.52	\$ 373.49	\$ 361.44	\$ 353.41	\$ 345.38
F3161S 55 DTC	With BC-171 01 drop-in trickle charger	\$ 682.00	\$ 427.96	\$ 406.56	\$ 398.00	\$ 385.16	\$ 376.60	\$ 368.04
F3161S 55 RC	With BC-160 01 rapid charger	\$ 705.00	\$ 442.39	\$ 420.27	\$ 411.42	\$ 398.15	\$ 389.30	\$ 380.45
F4161S 55	400-470 MHz, no keypad, Intrinsically Safe (includes radio, antenna, BP-232N FM battery, belt clip and owners manual)	\$ 640.00	\$ 401.60	\$ 381.52	\$ 373.49	\$ 361.44	\$ 353.41	\$ 345.38
F4161S 55 DTC	With BC-171 01 drop-in trickle charger	\$ 682.00	\$ 427.96	\$ 406.56	\$ 398.00	\$ 385.16	\$ 376.60	\$ 368.04
F4161S 55 RC	With BC-160 01 rapid charger	\$ 705.00	\$ 442.39	\$ 420.27	\$ 411.42	\$ 398.15	\$ 389.30	\$ 380.45
F4161S 60	450-512 MHz, no keypad, Intrinsically Safe (includes radio, antenna, BP-232N FM battery, belt clip and owners manual)	\$ 640.00	\$ 401.60	\$ 381.52	\$ 373.49	\$ 361.44	\$ 353.41	\$ 345.38
F4161S 60 DTC	With BC-171 01 drop-in trickle charger	\$ 682.00	\$ 427.96	\$ 406.56	\$ 398.00	\$ 385.16	\$ 376.60	\$ 368.04
F4161S 60 RC	With BC-160 01 rapid charger	\$ 705.00	\$ 442.39	\$ 420.27	\$ 411.42	\$ 398.15	\$ 389.30	\$ 380.45
Model	Description	Retail	GSA	20+	50+	100+	200+	400+
F3161T 45*	136-174 MHz, keypad, Intrinsically Safe (includes radio, antenna, BP-232N FM battery, belt clip and owners manual)	\$ 665.00	\$ 417.29	\$ 396.42	\$ 388.08	\$ 375.56	\$ 367.21	\$ 358.87
F3161T 45 DTC*	With BC-171 01 drop-in trickle charger	\$ 707.00	\$ 443.64	\$ 421.46	\$ 412.59	\$ 399.28	\$ 390.41	\$ 381.53
F3161T 45 RC*	With BC-160 01 rapid charger	\$ 730.00	\$ 458.08	\$ 435.17	\$ 426.01	\$ 412.27	\$ 403.11	\$ 393.94
F4161T 45*	400-470 MHz, keypad, Intrinsically Safe (includes radio, antenna, BP-232N FM battery, belt clip and owners manual)	\$ 665.00	\$ 417.29	\$ 396.42	\$ 388.08	\$ 375.56	\$ 367.21	\$ 358.87
F4161T 45 DTC*	With BC-171 01 drop-in trickle charger	\$ 707.00	\$ 443.64	\$ 421.46	\$ 412.59	\$ 399.28	\$ 390.41	\$ 381.53
F4161T 45 RC*	With BC-160 01 rapid charger	\$ 730.00	\$ 458.08	\$ 435.17	\$ 426.01	\$ 412.27	\$ 403.11	\$ 393.94
F4161T 50*	450-512 MHz, keypad, Intrinsically Safe (includes radio, antenna, BP-232N FM battery, belt clip and owners manual)	\$ 665.00	\$ 417.29	\$ 396.42	\$ 388.08	\$ 375.56	\$ 367.21	\$ 358.87
F4161T 50 DTC*	With BC-171 01 drop-in trickle charger	\$ 707.00	\$ 443.64	\$ 421.46	\$ 412.59	\$ 399.28	\$ 390.41	\$ 381.53
F4161T 50 RC*	With BC-160 01 rapid charger	\$ 730.00	\$ 458.08	\$ 435.17	\$ 426.01	\$ 412.27	\$ 403.11	\$ 393.94

\* Special order only. Please allow 90-120 days for delivery.

# F3161D - F4161D SERIES PRICING (UT-126 INSTALLED)

## FM Conventional, LTR & IDAS Digital Conventional (UT-126 Installed)

Model	Description	Retail	GSA	20+	50+	100+	200+	400+
F3161DS 71	136-174 MHz, Analog, LTR, 6.25 Digital, no keypad (includes radio, antenna, BP-232N battery, belt clip, UT-126 and owners manual)	\$ 810.00	\$ 508.28	\$ 482.86	\$ 472.70	\$ 457.45	\$ 447.28	\$ 432.03
F3161DS 71 DTC	With BC-171 01 drop-in trickle charger	\$ 852.00	\$ 534.63	\$ 507.90	\$ 497.21	\$ 481.17	\$ 470.47	\$ 454.44
F3161DS 71 RC	With BC-160 01 rapid charger	\$ 875.00	\$ 549.06	\$ 521.61	\$ 510.63	\$ 494.16	\$ 483.18	\$ 466.70
F4161DS 71	400-470 MHz, Analog, LTR, 6.25 Digital, no keypad (includes radio, antenna, BP-232N battery, belt clip, UT-126 and owners manual)	\$ 810.00	\$ 508.28	\$ 482.86	\$ 472.70	\$ 457.45	\$ 447.28	\$ 432.03
F4161DS 71 DTC	With BC-171 01 drop-in trickle charger	\$ 852.00	\$ 534.63	\$ 507.90	\$ 497.21	\$ 481.17	\$ 470.47	\$ 454.44
F4161DS 71 RC	With BC-160 01 rapid charger	\$ 875.00	\$ 549.06	\$ 521.61	\$ 510.63	\$ 494.16	\$ 483.18	\$ 466.70
F4161DS 76	450-512 MHz, Analog, LTR, 6.25 Digital, no keypad (includes radio, antenna, BP-232N battery, belt clip, UT-126 and owners manual)	\$ 810.00	\$ 508.28	\$ 482.86	\$ 472.70	\$ 457.45	\$ 447.28	\$ 432.03
F4161DS 76 DTC	With BC-171 01 drop-in trickle charger	\$ 852.00	\$ 534.63	\$ 507.90	\$ 497.21	\$ 481.17	\$ 470.47	\$ 454.44
F4161DS 76 RC	With BC-160 01 rapid charger	\$ 875.00	\$ 549.06	\$ 521.61	\$ 510.63	\$ 494.16	\$ 483.18	\$ 466.70
F3161DT 61	136-174 MHz, Analog, LTR, 6.25 Digital, keypad (includes radio, antenna, BP-232N battery, belt clip, UT-126 and owners manual)	\$ 860.00	\$ 539.65	\$ 512.67	\$ 501.87	\$ 485.69	\$ 474.89	\$ 458.70
F3161DT 61 DTC	With BC-171 01 drop-in trickle charger	\$ 902.00	\$ 566.01	\$ 537.70	\$ 526.38	\$ 509.40	\$ 498.08	\$ 481.10
F3161DT 61 RC	With BC-160 01 rapid charger	\$ 925.00	\$ 580.44	\$ 551.42	\$ 539.81	\$ 522.39	\$ 510.79	\$ 493.37
F4161DT 61	400-470 MHz, Analog, LTR, 6.25 Digital, keypad (includes radio, antenna, BP-232N battery, belt clip, UT-126 and owners manual)	\$ 860.00	\$ 539.65	\$ 512.67	\$ 501.87	\$ 485.69	\$ 474.89	\$ 458.70
F4161DT 61 DTC	With BC-171 01 drop-in trickle charger	\$ 902.00	\$ 566.01	\$ 537.70	\$ 526.38	\$ 509.40	\$ 498.08	\$ 481.10
F4161DT 61 RC	With BC-160 01 rapid charger	\$ 925.00	\$ 580.44	\$ 551.42	\$ 539.81	\$ 522.39	\$ 510.79	\$ 493.37
F4161DT 66	450-512 MHz, Analog, LTR, 6.25 Digital, keypad (includes radio, antenna, BP-232N battery, belt clip, UT-126 and owners manual)	\$ 860.00	\$ 539.65	\$ 512.67	\$ 501.87	\$ 485.69	\$ 474.89	\$ 458.70
F4161DT 66 DTC	With BC-171 01 drop-in trickle charger	\$ 902.00	\$ 566.01	\$ 537.70	\$ 526.38	\$ 509.40	\$ 498.08	\$ 481.10
F4161DT 66 RC	With BC-160 01 rapid charger	\$ 925.00	\$ 580.44	\$ 551.42	\$ 539.81	\$ 522.39	\$ 510.79	\$ 493.37

# F3161D - F4161D SERIES PRICING (WITH EMDC)

## FM Conventional, LTR & IDAS Digital Conventional (UT-126 Installed)

Model	Description	Retail	GSA	20+	50+	100+	200+	400+
F3161DS 71 EMDC	136-174 MHz, Analog, LTR, 6.25 Digital, no keypad with Enhanced MDC (includes radio, antenna, BP-232N battery, belt clip, UT-126 and owners manual)	\$ 827.00	\$ 518.94	\$ 493.00	\$ 482.62	\$ 467.05	\$ 456.67	\$ 441.10
F3161DS 71 DTC EMDC	With BC-171 01 drop-in trickle charger	\$ 869.00	\$ 545.30	\$ 518.03	\$ 507.13	\$ 490.77	\$ 479.86	\$ 463.50
F3161DS 71 RC EMDC	With BC-160 01 rapid charger	\$ 892.00	\$ 559.73	\$ 531.74	\$ 520.55	\$ 503.76	\$ 492.56	\$ 475.77
F4161DS 71 EMDC	400-470 MHz, Analog, LTR, 6.25 Digital, no keypad with Enhanced MDC (includes radio, antenna, BP-232N battery, belt clip, UT-126 and owners manual)	\$ 827.00	\$ 518.94	\$ 493.00	\$ 482.62	\$ 467.05	\$ 456.67	\$ 441.10
F4161DS 71 DTC EMDC	With BC-171 01 drop-in trickle charger	\$ 869.00	\$ 545.30	\$ 518.03	\$ 507.13	\$ 490.77	\$ 479.86	\$ 463.50
F4161DS 71 RC EMDC	With BC-160 01 rapid charger	\$ 892.00	\$ 559.73	\$ 531.74	\$ 520.55	\$ 503.76	\$ 492.56	\$ 475.77
F4161DS 76 EMDC	450-512 MHz, Analog, LTR, 6.25 Digital, no keypad with Enhanced MDC (includes radio, antenna, BP-232N battery, belt clip, UT-126 and owners manual)	\$ 827.00	\$ 518.94	\$ 493.00	\$ 482.62	\$ 467.05	\$ 456.67	\$ 441.10
F4161DS 76 DTC EMDC	With BC-171 01 drop-in trickle charger	\$ 869.00	\$ 545.30	\$ 518.03	\$ 507.13	\$ 490.77	\$ 479.86	\$ 463.50
F4161DS 76 RC EMDC	With BC-160 01 rapid charger	\$ 892.00	\$ 559.73	\$ 531.74	\$ 520.55	\$ 503.76	\$ 492.56	\$ 475.77
F3161DT 61 EMDC	136-174 MHz, Analog, LTR, 6.25 Digital, keypad with Enhanced MDC (includes radio, antenna, BP-232N battery, belt clip, UT-126 and owners manual)	\$ 877.00	\$ 550.32	\$ 522.80	\$ 511.80	\$ 495.29	\$ 484.28	\$ 467.77
F3161DT 61 DTC EMDC	With BC-171 01 drop-in trickle charger	\$ 919.00	\$ 576.67	\$ 547.84	\$ 536.31	\$ 519.01	\$ 507.47	\$ 490.17
F3161DT 61 RC EMDC	With BC-160 01 rapid charger	\$ 942.00	\$ 591.11	\$ 561.55	\$ 549.73	\$ 531.99	\$ 520.17	\$ 502.44
F4161DT 61 EMDC	400-470 MHz, Analog, LTR, 6.25 Digital, keypad with Enhanced MDC (includes radio, antenna, BP-232N battery, belt clip, UT-126 and owners manual)	\$ 877.00	\$ 550.32	\$ 522.80	\$ 511.80	\$ 495.29	\$ 484.28	\$ 467.77
F4161DT 61 DTC EMDC	With BC-171 01 drop-in trickle charger	\$ 919.00	\$ 576.67	\$ 547.84	\$ 536.31	\$ 519.01	\$ 507.47	\$ 490.17
F4161DT 61 RC EMDC	With BC-160 01 rapid charger	\$ 942.00	\$ 591.11	\$ 561.55	\$ 549.73	\$ 531.99	\$ 520.17	\$ 502.44
F4161DT 66 EMDC	450-512 MHz, Analog, LTR, 6.25 Digital, keypad with Enhanced MDC (includes radio, antenna, BP-232N battery, belt clip, UT-126 and owners manual)	\$ 877.00	\$ 550.32	\$ 522.80	\$ 511.80	\$ 495.29	\$ 484.28	\$ 467.77
F4161DT 66 DTC EMDC	With BC-171 01 drop-in trickle charger	\$ 919.00	\$ 576.67	\$ 547.84	\$ 536.31	\$ 519.01	\$ 507.47	\$ 490.17
F4161DT 66 RC EMDC	With BC-160 01 rapid charger	\$ 942.00	\$ 591.11	\$ 561.55	\$ 549.73	\$ 531.99	\$ 520.17	\$ 502.44

# F3161D - F4161D SERIES PRICING (INTRINSICALLY SAFE)

## FM Conventional, LTR & IDAS Digital Conventional (UT-126 Installed)

Model	Description	Retail	GSA	20+	50+	100+	200+	400+
F3161DS 75	136-174 MHz, Analog, LTR, 6.25 Digital, no keypad, Intrinsically Safe (includes radio, antenna, BP-232N FM battery, belt clip, UT-126 and owners manual)	\$ 875.00	\$ 549.06	\$ 521.61	\$ 510.63	\$ 494.16	\$ 483.18	\$ 472.19
F3161DS 75 DTC	With BC-171 01 drop-in trickle charger	\$ 917.00	\$ 575.42	\$ 546.65	\$ 535.14	\$ 517.88	\$ 506.37	\$ 494.86
F3161DS 75 RC	With BC-160 01 rapid charger	\$ 940.00	\$ 589.85	\$ 560.36	\$ 548.56	\$ 530.87	\$ 519.07	\$ 507.27
F4161DS 75	400-470 MHz, Analog, LTR, 6.25 Digital, no keypad, Intrinsically Safe (includes radio, antenna, BP-232N FM battery, belt clip, UT-126 and owners manual)	\$ 875.00	\$ 549.06	\$ 521.61	\$ 510.63	\$ 494.16	\$ 483.18	\$ 472.19
F4161DS 75 DTC	With BC-171 01 drop-in trickle charger	\$ 917.00	\$ 575.42	\$ 546.65	\$ 535.14	\$ 517.88	\$ 506.37	\$ 494.86
F4161DS 75 RC	With BC-160 01 rapid charger	\$ 940.00	\$ 589.85	\$ 560.36	\$ 548.56	\$ 530.87	\$ 519.07	\$ 507.27
F4161DS 80	450-512 MHz, Analog, LTR, 6.25 Digital, no keypad, Intrinsically Safe (includes radio, antenna, BP-232N FM battery, belt clip, UT-126 and owners manual)	\$ 875.00	\$ 549.06	\$ 521.61	\$ 510.63	\$ 494.16	\$ 483.18	\$ 472.19
F4161DS 80 DTC	With BC-171 01 drop-in trickle charger	\$ 917.00	\$ 575.42	\$ 546.65	\$ 535.14	\$ 517.88	\$ 506.37	\$ 494.86
F4161DS 80 RC	With BC-160 01 rapid charger	\$ 940.00	\$ 589.85	\$ 560.36	\$ 548.56	\$ 530.87	\$ 519.07	\$ 507.27
Model	Description	Retail	GSA	20+	50+	100+	200+	400+
F3161DT 65*	136-174 MHz, Analog, LTR, 6.25 Digital, keypad, Intrinsically Safe (includes radio, antenna, BP-232N FM battery, belt clip, UT-126 and owners manual)	\$ 895.00	\$ 561.61	\$ 533.53	\$ 522.30	\$ 505.45	\$ 494.22	\$ 482.99
F3161DT 65 DTC*	With BC-171 01 drop-in trickle charger	\$ 937.00	\$ 587.97	\$ 558.57	\$ 546.81	\$ 529.17	\$ 517.41	\$ 505.65
F3161DT 65 RC*	With BC-160 01 rapid charger	\$ 960.00	\$ 602.40	\$ 572.28	\$ 560.23	\$ 542.16	\$ 530.11	\$ 518.06
F4161DT 65*	400-470 MHz, Analog, LTR, 6.25 Digital, keypad, Intrinsically Safe (includes radio, antenna, BP-232N FM battery, belt clip, UT-126 and owners manual)	\$ 895.00	\$ 561.61	\$ 533.53	\$ 522.30	\$ 505.45	\$ 494.22	\$ 482.99
F4161DT 65 DTC*	With BC-171 01 drop-in trickle charger	\$ 937.00	\$ 587.97	\$ 558.57	\$ 546.81	\$ 529.17	\$ 517.41	\$ 505.65
F4161DT 65 RC*	With BC-160 01 rapid charger	\$ 960.00	\$ 602.40	\$ 572.28	\$ 560.23	\$ 542.16	\$ 530.11	\$ 518.06
F4161DT 70*	450-512 MHz, Analog, LTR, 6.25 Digital, keypad, Intrinsically Safe (includes radio, antenna, BP-232N FM battery, belt clip, UT-126 and owners manual)	\$ 895.00	\$ 561.61	\$ 533.53	\$ 522.30	\$ 505.45	\$ 494.22	\$ 482.99
F4161DT 70 DTC*	With BC-171 01 drop-in trickle charger	\$ 937.00	\$ 587.97	\$ 558.57	\$ 546.81	\$ 529.17	\$ 517.41	\$ 505.65
F4161DT 70 RC*	With BC-160 01 rapid charger	\$ 960.00	\$ 602.40	\$ 572.28	\$ 560.23	\$ 542.16	\$ 530.11	\$ 518.06

\* Special order only. Please allow 90-120 days for delivery.

# F3161 - F4161 SERIES ACCESSORIES

Model	Description	Retail	GSA
<b>Antennas (*These items are Open Market)</b>			
FA-SC25U*	Flexible Antenna for 400-430MHz UHF (Green tip)	\$ 13.00	\$ 8.16
FA-SC25V*	Flexible Antenna for 136-155MHz VHF (Blue tip)	\$ 13.00	\$ 8.16
FA-SC55V*	Flexible Antenna for 146-174MHz VHF (Std VHF - Red tip)	\$ 13.00	\$ 8.16
FA-SC57U*	Flexible Antenna for 430-470MHz UHF (Std UHF - Red tip)	\$ 13.00	\$ 8.16
FA-SC72U*	Flexible Antenna for 470-520MHz UHF (Blue tip)	\$ 13.00	\$ 8.16
FA-SC56VS*	Stubby antenna 150-160MHz (red ring)	\$ 14.50	\$ 9.10
FA-SC56VS UPGRADE	Pull standard antenna and sub FA-SC56US	\$ 1.50	\$ 0.94
FA-SC57VS*	Stubby antenna 160-174MHz (green ring)	\$ 14.50	\$ 9.10
FA-SC57VS UPGRADE	Pull standard antenna and sub FA-SC57US	\$ 1.50	\$ 0.94
FA-SC73US*	Stubby antenna 450-470MHz (red ring)	\$ 14.50	\$ 9.10
FA-SC73US UPGRADE	Pull standard antenna and sub FA-SC73US	\$ 1.50	\$ 0.94
FA-SC61UC	380-512MHz cut antenna to frequency needed	\$ 16.00	\$ 10.04
FA-SC61UC UPGRADE	Pull standard antenna and sub FA-SC61UC	\$ 3.00	\$ 1.88
FA-SC61VC	136-174MHz cut antenna to frequency needed	\$ 16.00	\$ 10.04
FA-SC61VC UPGRADE	Pull standard antenna and sub FA-SC61VC	\$ 3.00	\$ 1.88
<b>Batteries</b>			
BP-232N	7.2V/2000mAh Li-ion battery (standard on non I.S. versions)	\$ 65.00	\$ 40.79
BP-232N FM	7.2V/2000mAh Li-ion battery - I.S. Approved	\$ 145.00	\$ 90.99
BP-240	Alkaline battery case fits 6 AAA batteries (1W output power)	\$ 34.00	\$ 19.59
<b>Belt Clips</b>			
MB-93	Swivel belt clip	\$ 10.00	\$ 6.28
MB-94	Alligator belt clip (standard belt clip)	\$ 10.50	\$ 6.59
MB-96N	Swivel leather belt hanger. Use with MB-93.	\$ 28.00	\$ 17.57
MB-96F	Fixed leather belt hanger. Use with MB-94.	\$ 28.00	\$ 17.57
<b>Cables</b>			
CP-17L	Cigarette lighter cable	\$ 26.00	\$ 16.32
OPC-515L	DC power cable - for use with BC-119N (12-16V DC req.)	\$ 23.00	\$ 14.43
OPC-656	DC power cable - for use with BC-121N (12-16V DC req.)	\$ 10.50	\$ 6.59
<b>Chargers</b>			
AD-106	Adapter cup for BC119N/BC-121 6 unit multi charger	\$ 23.00	\$ 14.43
BC-119N 01	117V Rapid Charger (requires AD-106)	\$ 72.00	\$ 45.18
BC-119N 02	220V Rapid Charger (requires AD-106)	\$ 74.00	\$ 46.44
BC-121N	Multi-Unit (6) Charger (BC-124 & AD-106 adapter cups req.)	\$ 305.00	\$ 191.39
BC-121N AD106 KIT	117V Complete Multi Unit Charger Kit (includes BC157 and 6 AD106)	\$ 563.00	\$ 353.28
BC-121N AD106 220V KIT	220V Complete Multi Unit Charger Kit (includes BC157 and 6 AD106)	\$ 569.00	\$ 357.05
BC-157 02	117V power supply for the BC-121N gang charger	\$ 115.00	\$ 72.16
BC-157 04	220V power supply for BC121N	\$ 120.00	\$ 75.30
BC-145SA 31	117V AC adapter for BC-160/BC-119N (included w/BC-119N 01)	\$ 25.00	\$ 9.66
BC-145SE 32	220V AC adapter for BC-160/BC-119N (included w/BC-119N 02)	\$ 25.00	\$ 15.69
BC-147SA 14	117V AC adapter for BC-171 01	\$ 15.00	\$ 7.25
BC-147SE 15	220V AC adapter for BC-171 02	\$ 16.00	\$ 10.04
BC-160 01	117V Desktop Rapid Charger	\$ 68.00	\$ 42.67
BC-160 02	220V Desktop Rapid Charger	\$ 70.00	\$ 43.93
BC-171 01	117V Drop-in trickle charger (8 to 10 hrs)	\$ 45.00	\$ 28.24
BC-171 02	220V Drop-in trickle charger (8 to 10 hrs)	\$ 45.00	\$ 28.24
<b>Headsets (*These items are Open Market)</b>			
AD-52	Earphone adapter - required for SP-13	\$ 21.00	\$ 13.18
HS-94*	Ear-piece type headset for VS-1SC	\$ 25.00	\$ 15.69
HS-95	Headset with boom mic for VS-1SC	\$ 210.00	\$ 131.78
HS-97*	Earphone with throat mic for VS-1SC	\$ 42.00	\$ 26.36
SP-13	Earphone for handhelds compatible with HM158L & HM131SC	\$ 5.00	\$ 3.04
VS-1SC*	VOX/PTT unit (requires headset)	\$ 68.00	\$ 42.67
<b>Internal Modules</b>			
UT-109R	Non-rolling voice scrambler. Up to 32 codes available (not compatible with UT-110)	\$ 105.00	\$ 65.89
UT-110R	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes (available in conventional mode only)	\$ 173.00	\$ 108.56
UT-124R	Man Down Unit	\$ 90.00	\$ 56.48
UT-126H	6.25 kHz digital board - required in radio to use digital channels	\$ 250.00	\$ 155.31

Prices are subject to change, correction and pending GSA approvals.

GSA Contract #: GS-35F-0109L

# F3161 - F4161 SERIES ACCESSORIES

Model	Description	Retail	GSA
<b>Manuals</b>			
98815083	Owners Manual	\$ 12.00	\$ 7.53
97715082	Service Manual	\$ 40.00	\$ 22.09
94415081	CD Service Manual	\$ 40.00	\$ 22.09
<b>PassPort</b>			
PassPort 2.8 Upgrade	Firmware upgrade to PassPort 2.8 done at Icom America	\$ 60.00	\$ 37.65
PassPort 4.0 Upgrade	Firmware upgrade to PassPort 4.0 done at Icom America	\$ 85.00	\$ 53.34
<b>Programming</b>			
CS-F3161/F5061	Programming software	\$ 72.00	\$ 45.18
OPC-966	Programming cloning cable with RC-232S connector	\$ 168.00	\$ 39.48
OPC-966U	Programming cloning cable with USB connector	\$ 168.00	\$ 105.42
<b>Speaker Microphones</b>			
HM-131SC	Compact type speaker microphone	\$ 79.00	\$ 49.57
HM-159SC LG	Full size durable speaker microphone (IP-X4) low gain	\$ 92.00	\$ 57.73
HM-169	Waterproof speaker microphone (IP-67)	\$ 105.00	\$ 65.89
HM-169 IS	Waterproof speaker microphone (IP-67) - I.S. Approved	\$ 145.00	\$ 90.99
HM-170GP	Waterproof GPS speaker microphone	\$ 365.00	\$ 229.04
<b>Installation Charges (Open Market)</b>			
INSTALLM6789	Installation charge for 1-25 radios	\$ 70.00	\$ 43.93
INSTALLM6789	Installation charger for 25-49 radios	\$ 70.00	\$ 37.65
INSTALLM6789	Installation charge for 50+ radios	\$ 70.00	\$ 31.38
<b>Programming Charges (Open Market)</b>			
PROGLM6789	Programming charge for 1-25 radios	\$ 70.00	\$ 43.93
PROGLM6789	Programming charger for 25-49 radios	\$ 70.00	\$ 34.51
PROGLM6789	Programming charge for 50+ radios	\$ 70.00	\$ 28.24
<b>Extended Warranty (Open Market)</b>			
EXTWARR611	1 year extended warranty for a total of 4 years	\$ 40.00	\$ 25.10
EXTWARR612	2 years extended warranty for a total of 5 years	\$ 70.00	\$ 43.93
EXTWARR613	3 years extended warranty for a total of 6 years	\$ 110.00	\$ 69.03

Prices are subject to change, correction and pending GSA approvals.

GSA Contract #: GS-35F-0109L

# F3161 - F4161 SERIES PARTNER PRODUCTS

All Partner Products are Open Market.

Model	Description	Retail	Open Market
<b>Centurion Antenna</b>			
CEN EXD 400 MXI	Stubby antenna 400-430	\$ 14.00	\$ 8.79
CEN EXD 400 MXI UPGRADE	Pull standard antenna and sub CEN EXD 400 MXI	\$ 2.00	\$ 1.26
<b>Laird Antenna</b>			
LAIRD EXH 160 MXI	155-165 MHz unity gain, 1/4 wavelength antenna	\$ 25.33	\$ 15.89
LAIRD EXH 160 MXI UPGRADE	Pull standard antenna and sub LAIRD EXH 160 MXI	\$ 13.33	\$ 8.36
<b>Bee Cases</b>			
LC-F3061S LOOP	Leather case with a loop for non keypad version	\$ 40.00	\$ 25.10
LC-F3061S CLIP	Leather case with a clip for non keypad version	\$ 45.00	\$ 28.24
LC-F3061S SWIVEL	Leather case with a swivel for non keypad version	\$ 50.00	\$ 31.38
LC-F3061T LOOP	Leather case with a loop for keypad version	\$ 40.00	\$ 25.10
LC-F3061T CLIP	Leather case with a clip for keypad version	\$ 45.00	\$ 28.24
LC-F3061T SWIVEL	Leather case with a swivel for keypad version	\$ 50.00	\$ 31.38
NC-F3061S CLIP	Nylon case with a clip for non keypad version	\$ 30.00	\$ 18.83
NC-F3061S LOOP	Nylon case with a loop for non keypad version	\$ 35.00	\$ 21.96
NC-F3061T CLIP	Nylon case with a clip for keypad version	\$ 30.00	\$ 18.83
NC-F3061T LOOP	Nylon case with a loop for keypad version	\$ 35.00	\$ 21.96
<b>Otto Accessories</b>			
<b>Listen Only</b>			
Otto V1-10432	Earpiece to use with Otto speaker mics - right angle plug	\$ 48.00	\$ 30.12
Otto V1-EH22R131	D-hanger piece to use with Otto speaker mics - right angle plug	\$ 28.00	\$ 17.57
<b>Optional PTT's</b>			
Otto V1-10513	Ring PTT to use with headsets with pigtails	\$ 30.00	\$ 18.83
Otto V1-10514	Flat PTT to use with headsets with pigtails	\$ 50.00	\$ 31.38
Otto V1-10515	Barrel PTT to use with headsets with pigtails	\$ 38.00	\$ 23.85
Otto V1-10519	80mm body PTT to use with headsets with pigtails	\$ 120.00	\$ 75.30
<b>Accessories</b>			
Otto V1-10822	2-wire palm mic kit (black)	\$ 113.00	\$ 70.91
Otto V4-10514	Lightweight single speaker headset with in line PTT	\$ 135.00	\$ 84.71
Otto V4-BA2CM1	Breeze behind-the-head headset, single speaker with left boom	\$ 109.00	\$ 68.40
Otto V4-BA2CM3B	Breeze behind-the-head headset, in line PTT, pigtail for remote PTT option	\$ 120.00	\$ 75.30
Otto V4-EX2CM1	Explorer, lightweight, flexible earloop with boom mic	\$ 125.00	\$ 78.44
Otto V4-HC2CM1	Hurricane, lightweight, dual ear, behind-the-head headset	\$ 317.00	\$ 198.92
Otto V2-G2CM211	Genesis waterproof speaker mic with removable grill	\$ 180.00	\$ 112.95
Otto V2-10315	H2O Evolution style speaker mic immersion rated (IP68)	\$ 140.00	\$ 87.85
Otto V2-10314	Evolution heavy duty speaker mic	\$ 125.00	\$ 78.44
Otto V2-L2CM11	Profile speaker mic	\$ 91.00	\$ 57.10

Prices are subject to change, correction and pending GSA approvals.

GSA Contract #: GS-35F-0109L

# HIGH END PORTABLES

## F70 - F80 SERIES

NON I.S. VERSIONS		I.S. VERSIONS	
F70S 03*	136-174 MHz, No Keypad	F70S 23	136-174 MHz, No Keypad
		F70T 33	136-174 MHz, Keypad
F80S 05	400-470 MHz, No Keypad	F80S 45*	400-470 MHz, No Keypad
F80S 06	450-512 MHz, No Keypad	F80S 46*	450-512 MHz, No Keypad
		F80T 55*	400-470 MHz, Keypad
		F80T 56*	450-512 MHz, Keypad

\* VHF non I.S. and UHF I.S. versions special order only - please allow 120 days for delivery

### FEATURES

Output Power: 5W (VHF), 4W (UHF)  
 Channels: 256 with 32 zones  
 Channel Spacing: 12.5/25 kHz  
 PLL Channel Spacing: 2.5, 3.125, 5, 6.25  
 Display: LCD full dot matrix, switchable 1 line 12 character or 2 line 24 characters  
 Programmable Keys: 8  
 Mil Spec: 810 C, D, E  
 Scan: Normal, priority & dual priority  
 Programmable: PC with CSF70/F1700 software  
 Weight: 14.1 oz (with BP-253)  
 Other features: Tactical group function  
 IPX7 waterproof rating  
 Built-in audio compander  
 2 step power saver  
 Power on password  
 Busy, repeater lockout functions  
 8 DTMF audio dial memories  
 1 Option Slot  
 Selective call/individual call using Unit ID and talkgroup ID

Included with radio: Antenna, battery (BP-253), belt clip (MB-94) & owners manual

### MULTIPLE SIGNALING

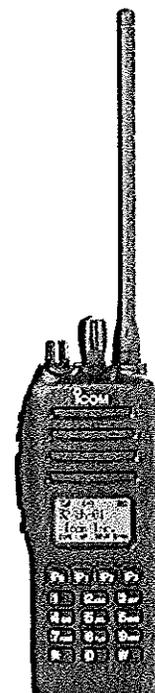
Encode and Decode Built in...no options necessary  
 CTCSS, DCS, MDC1200, 2 Tone, 5 Tone, DTMF, ANI with 2/5 tone & DTMF

### ENCRYPTION

Simple Inversion: UT109 02 32 Codes  
 Rolling Code: UT110 02 1020 Codes

### BATTERIES AND CHARGERS

BP-253 1650 mAh Li-Ion  
 BP-254 3040 mAh Li-Ion  
 BP-237 AA battery case  
 BC-119N 61 (with AD110 installed)  
 BC-121N F70 6 unit charger (includes BC-157 power supply and 6 AD-110)



# F70 - F80 SERIES PRICING

*Upgrade to P25 digital is available - please refer to P25 UPGRADING*

Model	Description	Retail	GSA	20+	50+	100+	200+	400+
F70S 03*	136-174 MHz, no keypad (includes radio, antenna, BP-253 battery, belt clip and owners manual)	\$ 925.00	\$ 580.44	\$ 551.42	\$ 539.81	\$ 522.39	\$ 510.79	\$ 493.37
F70S 03 RC*	With BC-119N 61 rapid charger	\$ 1,010.00	\$ 633.78	\$ 602.09	\$ 589.41	\$ 570.40	\$ 557.72	\$ 538.71
F80S 05	400-470 MHz, no keypad (includes radio, antenna, BP-253 battery, belt clip and owners manual)	\$ 925.00	\$ 580.44	\$ 551.42	\$ 539.81	\$ 522.39	\$ 510.79	\$ 493.37
F80S 05 RC	With BC-119N 61 rapid charger	\$ 1,010.00	\$ 633.78	\$ 602.09	\$ 589.41	\$ 570.40	\$ 557.72	\$ 538.71
F80S 06	450-512 MHz, no keypad (includes radio, antenna, BP-253 battery, belt clip and owners manual)	\$ 925.00	\$ 580.44	\$ 551.42	\$ 539.81	\$ 522.39	\$ 510.79	\$ 493.37
F80S 06 RC	With BC-119N 61 rapid charger	\$ 1,010.00	\$ 633.78	\$ 602.09	\$ 589.41	\$ 570.40	\$ 557.72	\$ 538.71

*\*F70S radio is special order only - please allow 120 days for delivery*

*\* Keypad versions are on closeout special*

# F70 - F80 SERIES PRICING (I.S. APPROVED)

*I.S. versions cannot be upgraded to P25 digital*

*UHS I.S. versions are special order only - please allow 120 days for delivery*

Model	Description	Retail	GSA	20+	50+	100+	200+	400+
F70S 23	136-174 MHz, no keypad (includes radio, antenna, BP-254FM battery, belt clip and owners manual)	\$ 925.00	\$ 580.44	\$ 551.42	\$ 539.81	\$ 522.39	\$ 510.79	\$ 493.37
F70S 23 RC	With BC119N 61 rapid charger	\$ 1,010.00	\$ 633.78	\$ 602.09	\$ 589.41	\$ 570.40	\$ 557.72	\$ 538.71
F70T 33	136-174 MHz, keypad (includes radio, antenna, BP-254FM battery, belt clip and owners manual)	\$ 975.00	\$ 611.81	\$ 581.22	\$ 568.99	\$ 550.63	\$ 538.40	\$ 520.04
F70T 33 RC	With BC119N 61 rapid charger	\$ 1,060.00	\$ 665.15	\$ 631.89	\$ 618.59	\$ 598.64	\$ 585.33	\$ 565.38
F80S 45	400-470 MHz, no keypad (includes radio, antenna, BP-254FM battery, belt clip and owners manual)	\$ 925.00	\$ 580.44	\$ 551.42	\$ 539.81	\$ 522.39	\$ 510.79	\$ 493.37
F80S 45 RC	With BC119N 61 rapid charger	\$ 1,010.00	\$ 633.78	\$ 602.09	\$ 589.41	\$ 570.40	\$ 557.72	\$ 538.71
F80S 46	450-512 MHz, no keypad (includes radio, antenna, BP-254FM battery, belt clip and owners manual)	\$ 925.00	\$ 580.44	\$ 551.42	\$ 539.81	\$ 522.39	\$ 510.79	\$ 493.37
F80S 46 RC	With BC119N 61 rapid charger	\$ 1,010.00	\$ 633.78	\$ 602.09	\$ 589.41	\$ 570.40	\$ 557.72	\$ 538.71
F80T 55	400-470 MHz, keypad (includes radio, antenna, BP-254FM battery, belt clip and owners manual)	\$ 975.00	\$ 611.81	\$ 581.22	\$ 568.99	\$ 550.63	\$ 538.40	\$ 520.04
F80T 55 RC	With BC119N 61 rapid charger	\$ 1,060.00	\$ 665.15	\$ 631.89	\$ 618.59	\$ 598.64	\$ 585.33	\$ 565.38
F80T 56	450-512 MHz, keypad (includes radio, antenna, BP-254FM battery, belt clip and owners manual)	\$ 975.00	\$ 611.81	\$ 581.22	\$ 568.99	\$ 550.63	\$ 538.40	\$ 520.04
F80T 56 RC	With BC119N 61 rapid charger	\$ 1,060.00	\$ 665.15	\$ 631.89	\$ 618.59	\$ 598.64	\$ 585.33	\$ 565.38



# F70- F80 SERIES ACCESSORIES

Model	Description	Retail	GSA
<b>Antennas (*These Items are Open Market)</b>			
AD-98FSC	BNC Antenna conversion connector	\$ 22.00	\$ 13.81
FA-SC25U*	Flexible Antenna for 400-430 MHz UHF (Green tip)	\$ 13.00	\$ 8.16
FA-SC25V*	Flexible Antenna for 136-155 MHz VHF (Blue tip)	\$ 13.00	\$ 8.16
FA-SC55V*	Flexible Antenna for 146-174 MHz VHF (Red tip)	\$ 13.00	\$ 8.16
FA-SC56U	Flexible Antenna for 430-470 MHz UHF (Red tip)	\$ 12.00	\$ 7.53
FA-SC72U*	Flexible Antenna for 470-520 MHz UHF (Blue tip)	\$ 13.00	\$ 8.16
FA-SC56VS*	Stubby Antenna for 150-160 MHz (Red ring)	\$ 14.50	\$ 9.10
FA-SC56VS UPGRADE	Pull standard antenna and sub FASC56US	\$ 1.50	\$ 0.94
FA-SC57VS*	Stubby Antenna for 160-174 MHz (Green ring)	\$ 14.50	\$ 9.10
FA-SC57VS UPGRADE	Pull standard antenna and sub FASC57US	\$ 1.50	\$ 0.94
FA-SC73US*	Stubby Antenna 450-470 MHz (Red ring)	\$ 14.50	\$ 9.10
FA-SC73US UPGRADE	Pull standard antenna and sub FASC73US	\$ 1.50	\$ 0.94
FA-SC61UC	380-512 MHz cut antenna to frequency needed	\$ 40.00	\$ 25.10
FA-SC61UC UPGRADE	Pull standard antenna and sub FASC61UC	\$ 70.00	\$ 43.93
FA-SC61VC	136-174 MHz cut antenna to frequency needed	\$ 110.00	\$ 69.03
FA-SC61VC UPGRADE	Pull standard antenna and sub FASC61VC	\$ 3.00	\$ 1.88
<b>Batteries</b>			
BP-253	7.4V 1600 mAh Li-Ion battery (standard battery)	\$ 100.00	\$ 62.75
BP-254	7.4V 3040 mAh Li-Ion battery	\$ 150.00	\$ 94.13
BP-254 UPGRADE	Pull BP235 and sub BP254	\$ 50.00	\$ 31.38
BP-254FM**	7.4V 3040 mAh Li-Ion battery - I.S. approved	\$ 183.00	\$ 114.83
BP-237	AA six alkaline battery pack (water resistant IPX4)	\$ 39.00	\$ 24.47
<b>Belt Clips</b>			
MB-93	Swivel belt clip	\$ 10.00	\$ 6.28
MB-94	Alligator belt clip (standard with radio)	\$ 10.50	\$ 6.59
MB-96N	Swivel type leather belt hanger	\$ 28.00	\$ 17.57
MB-96F	Fixed type leather belt hanger	\$ 28.00	\$ 17.57
<b>Chargers</b>			
AD-110	Adapter cup for BC119n charger	\$ 23.00	\$ 14.43
BC-119N 61	117V Desktop rapid charger with AD110 adapter cup installed	\$ 95.00	\$ 59.61
BC-121N	Multi-Unit (6) Desktop charger (BC157 & 6 AD110 required)	\$ 305.00	\$ 191.39
BC-121N F70	117V Complete Multi Unit Charger (includes BC157 and AD110)	\$ 550.00	\$ 345.13
BC-121N F70 220V	220V Complete Multi Unit Charger (includes BC157 and AD110)	\$ 555.00	\$ 348.26
BC-157 02	Power supply for the BC121N Multi-unit charger	\$ 115.00	\$ 72.16
BC-157 04	220V Power supply for the BC121N Multi-unit charger	\$ 120.00	\$ 75.30
CP-17L	Cigarette lighter cable charges BC119N (12-16V required)	\$ 26.00	\$ 16.32
<b>Headsets (*These Items are Open Market)</b>			
HS-94*/**	Ear-piece type headset for VS1SC	\$ 25.00	\$ 15.69
HS-95**	Headset with boom mic for VS1SC	\$ 210.00	\$ 131.78
HS-97*/**	Earphone with throat mic for VS1SC	\$ 42.00	\$ 26.36
VS-1SC*/**	PTT unit, no VOX circuit inside	\$ 68.00	\$ 42.67
<b>Internal Modules</b>			
UT-109 02**	Simple voice inversion scrambler with up to 32 codes. Available in analog use only.	\$ 105.00	\$ 65.89
UT-110 02**	Rolling code scrambler with up to 1020 codes (255 codes x 4 groups). Available in analog use only.	\$ 173.00	\$ 108.56
UT-124**	Man Down Unit	\$ 90.00	\$ 56.48
<b>Manuals</b>			
98814911	Owners Manual	\$ 12.00	\$ 7.53
94414953	CD Service Manual	\$ 40.00	\$ 22.09
97714933	Service Manual	\$ 40.00	\$ 22.09
<b>Programming</b>			
CS-F70/F1700	Programming Software	\$ 75.00	\$ 47.06
OPC-966	Programming Cable - PC to radio	\$ 160.00	\$ 99.48
OPC-966U	Programming Cable (USB)	\$ 168.00	\$ 105.42
OPC-1533	Radio to radio cloning cable between portable and mobile	\$ 88.00	\$ 55.22
OPC-1536	Radio to radio cloning cable between portable and portable	\$ 110.00	\$ 69.03

\*\*I.S. approved accessories

# F70 - F80 SERIES ACCESSORIES

Model	Description	Retail	GSA
<b>Speaker Microphones (*This item is Open Market)</b>			
HM-138*/**	Speaker microphone - waterproof IPX7	\$ 110.00	\$ 69.03
HM-169	IP-X7 (JIS-7) level waterproof medium size speaker mic	\$ 105.00	\$ 65.89
HM-170GP	Waterproof GPS speaker mic	\$ 365.00	\$ 229.04
<b>Installation Charges (Open Market)</b>			
INSTALLM6789	Installation charge for 1-25 radios	\$ 70.00	\$ 43.93
INSTALLM6789	Installation charger for 25-49 radios	\$ 70.00	\$ 37.65
INSTALLM6789	Installation charge for 50+ radios	\$ 70.00	\$ 31.38
<b>Programming Charges (Open Market)</b>			
PROGLM6789	Programming charge for 1-25 radios	\$ 70.00	\$ 43.93
PROGLM6789	Programming charger for 25-49 radios	\$ 70.00	\$ 34.51
PROGLM6789	Programming charge for 50+ radios	\$ 70.00	\$ 28.24
<b>Extended Warranty (Open Market)</b>			
EXTWARR611	1 year extended warranty for a total of 3 years	\$ 40.00	\$ 25.10
EXTWARR612	2 years extended warranty for a total of 4 years	\$ 70.00	\$ 43.93
EXTWARR613	3 years extended warranty for a total of 5 years	\$ 110.00	\$ 69.03

\*\* I.S. approved accessories

# F70 - F80 SERIES PARTNER PRODUCTS

All Partner Products are Open Market.

Model	Description	Retail	Open Market
<b>Centurion Antenna</b>			
CEN EXD 400 MXI	Stubby antenna 400-430 MHz	\$ 14.00	\$ 8.79
CEN EXD 400 MXI UPGRADE	Pull standard antenna and sub CEN EXD 400 MXI	\$ 2.00	\$ 1.26
<b>Laird Antenna</b>			
LAIRD EXH 160 MXI	155-165 MHz unity gain, 1/4 wavelength antenna	\$ 25.33	\$ 15.89
LAIRD EXH 160 MXI UPGRADE	Pull standard antenna and sub LAIRD EXH 160 MXI	\$ 13.33	\$ 8.36
<b>A &amp; W Enterprises</b>			
AW F70 Area 51	Durable water resistant case with unique swivel clip	\$ 35.00	\$ 21.96
AW F70T Area 51	Durable water resistant case with unique swivel clip for keypad version	\$ 35.00	\$ 21.96
AW STUD/SWIVEL KIT	Stud and swivel together in a kit	\$ 21.00	\$ 13.18
<b>Bee Cases</b>			
LCF70 LOOP	Leather case with loop (keypad version)	\$ 40.00	\$ 25.10
LCF70 CLIP	Leather case with clip (keypad version)	\$ 70.00	\$ 43.93
LCF70 SWIVEL	Leather case with swivel (keypad version)	\$ 110.00	\$ 69.03
LCF70S LOOP	Leather case with loop (non keypad version)	\$ 40.00	\$ 25.10
LCF70S SWIVEL	Leather case with swivel (non keypad version)	\$ 50.00	\$ 31.38
NCF70 CLIP	Nylon carrying case with a clip	\$ 30.00	\$ 18.83
NCF70 LOOP	Nylon carrying case with a loop	\$ 35.00	\$ 21.96
<b>Otto Accessories</b>			
<b>Listen Only for Profile &amp; Evolution Speaker Microphone</b>			
Otto V1-10432	Earpiece to use with Otto speaker mics - right angle plug	\$ 48.00	\$ 30.12
Otto V1-EH22R131	D-hanger piece to use with Otto speaker mics - right angle plug	\$ 28.00	\$ 17.57
<b>Optional PTT's</b>			
Otto V1-10513	Ring PTT to use with headsets with pigtails	\$ 30.00	\$ 18.83
Otto V1-10514	Flat PTT to use with headsets with pigtails	\$ 48.00	\$ 30.12
Otto V1-10515	Barrel PTT to use with headsets with pigtails	\$ 38.00	\$ 23.85
Otto V1-10519	80mm body PTT to use with headsets with pigtails	\$ 120.00	\$ 75.30
<b>Accessories</b>			
Otto V1-10822	2-wire palm mic kit (black)	\$ 113.00	\$ 70.91
Otto V4-10514	Lightweight single speaker headset with in-line PTT	\$ 135.00	\$ 84.71
Otto V4-BA2CM1	Breeze behind-the-head headset, single speaker, with left boom	\$ 109.00	\$ 68.40
Otto V4-BA2CM3B	Breeze behind-the-head headset, in-line PTT, pigtail for remote PTT	\$ 120.00	\$ 75.30
Otto V4-EX2CM1	Explorer, lightweight, flexible earloop with boom mic	\$ 125.00	\$ 78.44
Otto V4-HC2CM1	Hurricane, lightweight, dual ear, behind-the-head headset	\$ 317.00	\$ 198.92
Otto V2-G2CM211	Genesis waterproof speaker mic with removable grill	\$ 180.00	\$ 112.95
Otto V2-10315	H2O Evolution style speaker mic immersion rated (IP68)	\$ 140.00	\$ 87.85
Otto V2-10314	Evolution heavy duty speaker mic	\$ 125.00	\$ 78.44
Otto V2-L2CM11	Profile speaker mic	\$ 91.00	\$ 57.10
<b>IS Approved</b>			
Otto V4-10469-S	Over the head, noise attenuating headset	\$ 405.00	\$ 254.14
Otto V4-10470-S	Behind the head style, noise attenuating headset	\$ 450.00	\$ 282.38
Otto V2-10273-S	H2O Evolution style speaker mic immersion rated (IP68)	\$ 166.00	\$ 104.17
Otto V2-10274-S	Evolution heavy duty speaker mic	\$ 147.00	\$ 92.24

Prices are subject to change, corrections and pending GSA approvals.

GSA Contract #:  
GS-35F-0109L

# P25 PORTABLES - I.S. - FIPS AES F70D - F80D SERIES

## VERSIONS

F70DS 01	136-174 MHz, full P25, no keypad
F70DT 11	136-174 MHz, full P25, keypad
F80DS 01*	400-470 MHz, full P25, no keypad
F80DS 02*	450-512 MHz, full P25, no keypad
F80DT 21*	400-470 MHz, full P25, keypad

## I.S. VERSIONS

F70DS 21	136-174 MHz, P25, no keypad
F70DT 31	136-174 MHz, P25, keypad
F80DS 41*	400-470 MHz, P25 no keypad
F80DS 42*	450-512 MHz, P25, no keypad
F80DT 51*	400-470 MHz, P25, keypad
F80DT 52*	450-512 MHz, P25, keypad

## FIPS VERSIONS

F70DS 04	136-174 MHz, P25, no keypad
F70DT 14	136-174 MHz, P25, keypad
F80DS 31	380-450 MHz, P25, no keypad
F80DS 32*	400-470 MHz, P25, no keypad
F80DS 33*	450-512 MHz, P25, no keypad
F80DT 35*	380-450 MHz, P25, keypad
F80DT 36*	400-470 MHz, P25, keypad
F80DT 35*	400-470 MHz, P25, keypad

\* UHF versions are special order only - please allow 120 days for delivery

## FEATURES

Output Power:	5W (VHF), 4W (UHF)
Channels:	256 with 32 zones
Channel Spacing:	12.5/25 kHz
PLL Channel Spacing:	2.5, 3.125, 5, 6.25
Display:	LCD full dot matrix, Switchable 1 line 12 character or 2 line 24 characters
Programmable Keys:	8
Mil Spec:	810 C, D, E
Scan:	Normal, priority & dual priority
Programmable:	PC with CSF70/F1700 software
Weight:	14.1 oz (with BP-253)
Other features:	Interoperability with other manufacturer's P25 digital radio in conventional mode Compatible with both analog FM mode and P25 digital mode Selective call/individual call using Unit ID and talk group ID NAC (Network Access Code) operation provides quiet stand-by in a large group IPX7 waterproof rating Built-in audio compander (analog mode only) 2 step power saver 8 DTMF audio dial memories Busy, repeater lockout functions Power on password Tactical group functions

Included with radio: Antenna, battery (BP-253 or BP-254), belt clip (MB-94) & owners manual  
Warranty: 3 Years

## MULTIPLE SIGNALING

Encode and Decode Built in...no options necessary  
MDC1200, CTCSS, DCS, 2 Tone, 5 Tone, DTMF, ANI with 2/5 tone & DTMF

## ENCRYPTION

Simple Inversion:	UT-109 02 32 Codes (analog only)
Rolling Code:	UT-110 02 1020 Codes (analog only)
Unit Down:	UT-124 (analog only)
DES & AES:	Digital mode only (see P25 UPGRADE)

## BATTERIES & CHARGERS

BP-253 1650 mAh Li-Ion battery  
BP-254 3040 mAh Li-Ion battery  
BP-237 AA battery case  
BC-119N 61 rapid charger (with AD110 cup installed)  
BC-121N F70 6 unit charger (includes BC157 and 6 each AD110)



# F70D - F80D SERIES PRICING

*UHF versions are special order only - please allow 120 days for delivery*

Model	Description	Retail	GSA	20+	50+	100+	200+	400+
F70DS 01	136-174 MHz full P25, no keypad (includes radio, antenna, BP-253 battery, belt clip and owners manual)	\$ 1,720.00	\$ 1,079.30	\$ 1,025.34	\$ 1,003.75	\$ 971.37	\$ 949.78	\$ 917.41
F70DS 01 RC	With BC-119N 61 rapid charger	\$ 1,805.00	\$ 1,132.64	\$ 1,076.01	\$ 1,053.35	\$ 1,019.37	\$ 996.72	\$ 962.74
F70DT 11	136-174 MHz full P25, keypad (includes radio, antenna, BP-253 battery, belt clip and owners manual)	\$ 1,820.00	\$ 1,142.05	\$ 1,084.95	\$ 1,062.11	\$ 1,027.85	\$ 1,005.00	\$ 970.74
F70DT 11 RC	With BC-119N 61 rapid charger	\$ 1,905.00	\$ 1,195.39	\$ 1,135.62	\$ 1,111.71	\$ 1,075.85	\$ 1,051.94	\$ 1,016.08
F80DS 01	400-470 MHz full P25, no keypad (includes radio, antenna, BP-253 battery, belt clip and owners manual)	\$ 1,720.00	\$ 1,079.30	\$ 1,025.34	\$ 1,003.75	\$ 971.37	\$ 949.78	\$ 917.41
F80DS 01 RC	With BC-119N 61 rapid charger	\$ 1,805.00	\$ 1,132.64	\$ 1,076.01	\$ 1,053.35	\$ 1,019.37	\$ 996.72	\$ 962.74
F80DS 02	450-512 MHz full P25, no keypad (includes radio, antenna, BP-253 battery, belt clip and owners manual)	\$ 1,720.00	\$ 1,079.30	\$ 1,025.34	\$ 1,003.75	\$ 971.37	\$ 949.78	\$ 917.41
F80DS 02 RC	With BC-119N 61 rapid charger	\$ 1,805.00	\$ 1,132.64	\$ 1,076.01	\$ 1,053.35	\$ 1,019.37	\$ 996.72	\$ 962.74
F80DT 21	400-470 MHz full P25, keypad (includes radio, antenna, BP-253 battery, belt clip and owners manual)	\$ 1,820.00	\$ 1,142.05	\$ 1,084.95	\$ 1,062.11	\$ 1,027.85	\$ 1,005.00	\$ 970.74
F80DT 21 RC	With BC-119N 61 rapid charger	\$ 1,905.00	\$ 1,195.39	\$ 1,135.62	\$ 1,111.71	\$ 1,075.85	\$ 1,051.94	\$ 1,016.08

Prices are subject to change, corrections and pending GSA approvals.

GSA Contract #: GS-35F-0109L

# F70D - F80D SERIES PRICING (I.S. APPROVED)

All UHF Intrinsicly Safe versions are special order only - please allow 120 days for delivery

Model	Description	Retail	GSA	20+	50+	100+	200+	400+
F70DS 21	136-174 MHz, no keypad, I.S. (Includes radio, antenna, BP-254FM battery, belt clip and owners manual)	\$ 1,850.00	\$ 1,160.88	\$ 1,102.83	\$ 1,079.61	\$ 1,044.79	\$ 1,021.57	\$ 986.74
F70DS 21 RC	With BC-119N 61 rapid charger	\$ 1,935.00	\$ 1,214.21	\$ 1,153.50	\$ 1,129.22	\$ 1,092.79	\$ 1,068.51	\$ 1,032.08
F70DT 31	136-174 MHz, keypad, I.S. (Includes radio, antenna, BP-254FM battery, belt clip and owners manual)	\$ 1,950.00	\$ 1,223.63	\$ 1,162.44	\$ 1,137.97	\$ 1,101.26	\$ 1,076.79	\$ 1,040.08
F70DT 31 RC	With BC-119N 61 rapid charger	\$ 2,035.00	\$ 1,276.96	\$ 1,213.11	\$ 1,187.58	\$ 1,149.27	\$ 1,123.73	\$ 1,085.42
F80DS 41	400-470 MHz, no keypad, I.S. (Includes radio, antenna, BP-254FM battery, belt clip and owners manual)	\$ 1,850.00	\$ 1,160.88	\$ 1,102.83	\$ 1,079.61	\$ 1,044.79	\$ 1,021.57	\$ 986.74
F80DS 41 RC	With BC-119N 61 rapid charger	\$ 1,935.00	\$ 1,214.21	\$ 1,153.50	\$ 1,129.22	\$ 1,092.79	\$ 1,068.51	\$ 1,032.08
F80DS 42	450-512 MHz, no keypad, I.S. (Includes radio, antenna, BP-254FM battery, belt clip and owners manual)	\$ 1,850.00	\$ 1,160.88	\$ 1,102.83	\$ 1,079.61	\$ 1,044.79	\$ 1,021.57	\$ 986.74
F80DS 42 RC	With BC-119N 61 rapid charger	\$ 1,935.00	\$ 1,214.21	\$ 1,153.50	\$ 1,129.22	\$ 1,092.79	\$ 1,068.51	\$ 1,032.08
F80DT 51	400-470 MHz, keypad, I.S. (Includes radio, antenna, BP-254FM battery, belt clip and owners manual)	\$ 1,950.00	\$ 1,223.63	\$ 1,162.44	\$ 1,137.97	\$ 1,101.26	\$ 1,076.79	\$ 1,040.08
F80DT 51 RC	With BC-119N 61 rapid charger	\$ 2,035.00	\$ 1,276.96	\$ 1,213.11	\$ 1,187.58	\$ 1,149.27	\$ 1,123.73	\$ 1,085.42
F80DT 52	450-512 MHz, keypad, I.S. (Includes radio, antenna, BP-254FM battery, belt clip and owners manual)	\$ 1,950.00	\$ 1,223.63	\$ 1,162.44	\$ 1,137.97	\$ 1,101.26	\$ 1,076.79	\$ 1,040.08
F80DT 52 RC	With BC-119N 61 rapid charger	\$ 2,035.00	\$ 1,276.96	\$ 1,213.11	\$ 1,187.58	\$ 1,149.27	\$ 1,123.73	\$ 1,085.42



Prices are subject to change, corrections and pending GSA approvals.

GSA Contract #: GS-35F-0109L

# F70D - F80D SERIES PRICING (FIPS AES)

All UHF FIPS AES versions are special order only - please allow 120 days for delivery

Model	Description	Retail	GSA	20+	50+	100+	200+	400+
F70DS 04	136-174 MHz, P25, no keypad, FIPS AES (includes radio, antenna, BP-254 battery, belt clip and owners manual)	\$ 2,520.00	\$ 1,581.30	\$ 1,502.24	\$ 1,470.61	\$ 1,423.17	\$ 1,391.54	\$ 1,344.11
F70DS 04 RC	With BC-119N 61 rapid charger	\$ 2,605.00	\$ 1,634.64	\$ 1,552.91	\$ 1,520.21	\$ 1,471.17	\$ 1,438.48	\$ 1,389.44
F70DT 14	136-174 MHz, P25, keypad, FIPS AES (includes radio, antenna, BP-254 battery, belt clip and owners manual)	\$ 2,620.00	\$ 1,644.05	\$ 1,561.85	\$ 1,528.97	\$ 1,479.65	\$ 1,446.76	\$ 1,397.44
F70DT 14 RC	With BC-119N 61 rapid charger	\$ 2,705.00	\$ 1,697.39	\$ 1,612.52	\$ 1,578.57	\$ 1,527.65	\$ 1,493.70	\$ 1,442.78
F80DS 31	380-450 MHz, P25, no keypad, FIPS AES (includes radio, antenna, BP-254 battery, belt clip and owners manual)	\$ 2,520.00	\$ 1,581.30	\$ 1,502.24	\$ 1,470.61	\$ 1,423.17	\$ 1,391.54	\$ 1,344.11
F80DS 31 RC	With BC-119N 61 rapid charger	\$ 2,605.00	\$ 1,634.64	\$ 1,552.91	\$ 1,520.21	\$ 1,471.17	\$ 1,438.48	\$ 1,389.44
F80DS 32	400-470 MHz, P25, no keypad, FIPS AES (includes radio, antenna, BP-254 battery, belt clip and owners manual)	\$ 2,520.00	\$ 1,581.30	\$ 1,502.24	\$ 1,470.61	\$ 1,423.17	\$ 1,391.54	\$ 1,344.11
F80DS 32 RC	With BC-119N 61 rapid charger	\$ 2,605.00	\$ 1,634.64	\$ 1,552.91	\$ 1,520.21	\$ 1,471.17	\$ 1,438.48	\$ 1,389.44
F80DS 33	450-512 MHz, P25, no keypad, FIPS AES (includes radio, antenna, BP-254 battery, belt clip and owners manual)	\$ 2,520.00	\$ 1,581.30	\$ 1,502.24	\$ 1,470.61	\$ 1,423.17	\$ 1,391.54	\$ 1,344.11
F80DS 33 RC	With BC-119N 61 rapid charger	\$ 2,605.00	\$ 1,634.64	\$ 1,552.91	\$ 1,520.21	\$ 1,471.17	\$ 1,438.48	\$ 1,389.44
F80DT 35	380-450 MHz, P25, keypad, FIPS AES (includes radio, antenna, BP-254 battery, belt clip and owners manual)	\$ 2,620.00	\$ 1,644.05	\$ 1,561.85	\$ 1,528.97	\$ 1,479.65	\$ 1,446.76	\$ 1,397.44
F80DT 35 RC	With BC-119N 61 rapid charger	\$ 2,705.00	\$ 1,697.39	\$ 1,612.52	\$ 1,578.57	\$ 1,527.65	\$ 1,493.70	\$ 1,442.78
F80DT 36	400-470 MHz, P25, keypad, FIPS AES (includes radio, antenna, BP-254 battery, belt clip and owners manual)	\$ 2,620.00	\$ 1,644.05	\$ 1,561.85	\$ 1,528.97	\$ 1,479.65	\$ 1,446.76	\$ 1,397.44
F80DT 36 RC	With BC-119N 61 rapid charger	\$ 2,705.00	\$ 1,697.39	\$ 1,612.52	\$ 1,578.57	\$ 1,527.65	\$ 1,493.70	\$ 1,442.78
F80DT 37	450-512 MHz, P25, keypad, FIPS AES (includes radio, antenna, BP-254 battery, belt clip and owners manual)	\$ 2,620.00	\$ 1,644.05	\$ 1,561.85	\$ 1,528.97	\$ 1,479.65	\$ 1,446.76	\$ 1,397.44
F80DT 37 RC	With BC-119N 61 rapid charger	\$ 2,705.00	\$ 1,697.39	\$ 1,612.52	\$ 1,578.57	\$ 1,527.65	\$ 1,493.70	\$ 1,442.78

Federal Information Processing Standard (FIPS) 140-2 is a standard that describes the US Federal government requirements that products should meet for sensitive, material. The standard also defines the security requirements that must be satisfied by a cryptographic module used in radios.

The FIPS logo is a Certification Mark of NIST, which does not imply product endorsement by NIST, the U.S. or Canadian Governments.



TM

# F70D- F80D SERIES ACCESSORIES

Model	Description	Retail	GSA
<b>Antennas (*These items are Open Market)</b>			
AD-98FSC	BNC Antenna conversion connector	\$ 22.00	\$ 13.81
FA-SC25U*	Flexible Antenna for 400-430 MHz UHF (Green tip)	\$ 13.00	\$ 8.16
FA-SC25V*	Flexible Antenna for 136-155 MHz VHF (Blue tip)	\$ 13.00	\$ 8.16
FA-SC55V*	Flexible Antenna for 146-174 MHz VHF (Red tip)	\$ 13.00	\$ 8.16
FA-SC56U	Flexible Antenna for 430-470 MHz UHF (Red tip)	\$ 12.00	\$ 7.53
FA-SC72U*	Flexible Antenna for 470-520 MHz UHF (Blue tip)	\$ 13.00	\$ 8.16
FA-SC56VS*	Stubby Antenna for 150-160 MHz (Red ring)	\$ 14.50	\$ 9.10
FA-SC56VS UPGRADE	Pull standard antenna and sub FASC56US	\$ 1.50	\$ 0.94
FA-SC57VS*	Stubby Antenna for 160-174 MHz (Green ring)	\$ 14.50	\$ 9.10
FA-SC57VS UPGRADE	Pull standard antenna and sub FASC57US	\$ 1.50	\$ 0.94
FA-SC73US*	Stubby Antenna 450-470 MHz (Red ring)	\$ 14.50	\$ 9.10
FA-SC73US UPGRADE	Pull standard antenna and sub FASC73US	\$ 1.50	\$ 0.94
FA-SC61UC	380-512 MHz cut antenna to frequency needed	\$ 16.00	\$ 10.04
FA-SC61UC UPGRADE	Pull standard antenna and sub FASC61UC	\$ 3.00	\$ 1.88
FA-SC61VC	136-174 MHz cut antenna to frequency needed	\$ 16.00	\$ 10.04
FA-SC61VC UPGRADE	Pull standard antenna and sub FASC61VC	\$ 3.00	\$ 1.88
<b>Batteries</b>			
BP-253	7.4V 1600 mAh Li-Ion battery (standard battery)	\$ 100.00	\$ 62.75
BP-254	7.4V 3040 mAh Li-Ion battery	\$ 150.00	\$ 94.13
BP-254 UPGRADE	Pull BP235 and sub BP254	\$ 50.00	\$ 31.38
BP-254FM**	7.4V 3040 mAh Li-Ion battery - I.S. approved	\$ 183.00	\$ 114.83
BP-237	AA six alkaline battery pack (water resistant IPX4)	\$ 39.00	\$ 24.47
<b>Belt Clips</b>			
MB-93	Swivel belt clip	\$ 10.00	\$ 6.28
MB-94	Alligator belt clip (standard with radio)	\$ 10.50	\$ 6.59
MB-96N	Swivel type leather belt hanger	\$ 28.00	\$ 17.57
MB-96F	Fixed type leather belt hanger	\$ 28.00	\$ 17.57
<b>Chargers</b>			
AD-110	Adapter cup for BC119n charger	\$ 23.00	\$ 14.43
BC-119N 61	117V Desktop rapid charger with AD110 adapter cup installed	\$ 95.00	\$ 59.61
BC-121N	Multi-Unit (6) Desktop charger (BC157 & 6 AD110 required)	\$ 305.00	\$ 191.39
BC-121N F70	117V Complete Multi Unit Charger (includes BC157 and AD110)	\$ 550.00	\$ 345.13
BC-121N F70 220V	220V Complete Multi Unit Charger (includes BC157 and AD110)	\$ 555.00	\$ 348.26
BC-157 02	Power supply for the BC121N Multi-unit charger	\$ 115.00	\$ 72.16
BC-157 04	220V Power supply for the BC121N Multi-unit charger	\$ 120.00	\$ 75.30
CP-17L	Cigarette lighter cable charges BC119N (12-16V required)	\$ 26.00	\$ 16.32
<b>Headsets (*These items are Open Market)</b>			
HS-94*/**	Ear-piece type headset for VS1SC	\$ 25.00	\$ 15.69
HS-95**	Headset with boom mic for VS1SC	\$ 210.00	\$ 131.78
HS-97*/**	Earphone with throat mic for VS1SC	\$ 42.00	\$ 26.36
VS-1SC*/**	PTT unit, no VOX circuit inside	\$ 68.00	\$ 42.67
<b>Internal Modules</b>			
UT-109 02**	Simple voice inversion scrambler with up to 32 codes. Available in analog use only.	\$ 105.00	\$ 65.89
UT-110 02**	Rolling code scrambler with up to 1020 codes (255 codes x 4 groups). Available in analog use only.	\$ 173.00	\$ 108.56
UT-124**	Man Down Unit	\$ 90.00	\$ 56.48
<b>Manuals</b>			
98814911	Owners Manual	\$ 12.00	\$ 7.53
94414953	CD Service Manual	\$ 40.00	\$ 22.09
97714933	Service Manual	\$ 40.00	\$ 22.09
<b>Programming</b>			
CS-F70/F1700	Programming Software	\$ 75.00	\$ 47.06
OPC-966	Programming Cable - PC to radio	\$ 160.00	\$ 99.48
OPC-966U	Programming Cable (USB)	\$ 168.00	\$ 105.42
OPC-1533	Radio to radio cloning cable between portable and mobile	\$ 88.00	\$ 55.22
OPC-1536	Radio to radio cloning cable between portable and portable	\$ 110.00	\$ 69.03

\*\*I.S. approved accessories

Prices are subject to change, corrections and pending GSA approvals.

GSA Contract #:  
GS-35F-0109L

# F70D - F80D SERIES ACCESSORIES

Model	Description	Retail	GSA
<b>Speaker Microphones (*This item is Open Market)</b>			
HM-138**	Speaker microphone - waterproof IPX7	\$ 110.00	\$ 69.03
HM-169	IP-X7 (JIS-7) level waterproof medium size speaker mic	\$ 105.00	\$ 65.89
HM-170GP	Waterproof GPS speaker mic	\$ 365.00	\$ 229.04
<b>Installation Charges (Open Market)</b>			
INSTALLM6789	Installation charge for 1-25 radios	\$ 70.00	\$ 43.93
INSTALLM6789	Installation charger for 25-49 radios	\$ 70.00	\$ 37.65
INSTALLM6789	Installation charge for 50+ radios	\$ 70.00	\$ 31.38
<b>Programming Charges (Open Market)</b>			
PROGLM6789	Programming charge for 1-25 radios	\$ 70.00	\$ 43.93
PROGLM6789	Programming charger for 25-49 radios	\$ 70.00	\$ 34.51
PROGLM6789	Programming charge for 50+ radios	\$ 70.00	\$ 28.24
<b>Extended Warranty (Open Market)</b>			
EXTWARP25P1	1 year extended warranty for a total of 4 years	\$ 65.00	\$ 40.79
EXTWARP25P2	2 years extended warranty for a total of 5 years	\$ 93.00	\$ 58.36
EXTWARP25P3	3 years extended warranty for a total of 6 years	\$ 130.00	\$ 81.58

\*\*I.S. approved accessories

# F70D - F80D SERIES PARTNER PRODUCTS

All Partner Products are Open Market.

Model	Description	Retail	Open Market
<b>Centurion Antenna</b>			
CEN EXD 400 MXI	Stubby antenna 400-430 MHz	\$ 14.00	\$ 8.79
CEN EXD 400 MXI UPGRADE	Pull standard antenna and sub CEN EXD 400 MXI	\$ 2.00	\$ 1.26
<b>Laird Antenna</b>			
LAIRD EXH 160 MXI	155-165 MHz unity gain, 1/4 wavelength antenna	\$ 25.33	\$ 15.89
LAIRD EXH 160 MXI UPGRADE	Pull standard antenna and sub LAIRD EXH 160 MXI	\$ 13.33	\$ 8.36
<b>A &amp; W Enterprises</b>			
AW F70 Area 51	Durable water resistant case with unique swivel clip	\$ 35.00	\$ 21.96
AW F70T Area 51	Durable water resistant case with unique swivel clip for keypad version	\$ 35.00	\$ 21.96
AW STUD/SWIVEL KIT	Stud and swivel together in a kit	\$ 21.00	\$ 13.18
<b>Bee Cases</b>			
LCF70 LOOP	Leather case with loop (keypad version)	\$ 40.00	\$ 25.10
LCF70 CLIP	Leather case with clip (keypad version)	\$ 45.00	\$ 28.24
LCF70 SWIVEL	Leather case with swivel (keypad version)	\$ 50.00	\$ 31.38
LCF70S LOOP	Leather case with loop (non keypad version)	\$ 40.00	\$ 25.10
LCF70S SWIVEL	Leather case with swivel (non keypad version)	\$ 50.00	\$ 31.38
NCF70 CLIP	Nylon carrying case with a clip	\$ 30.00	\$ 18.83
NCF70 LOOP	Nylon carrying case with a loop	\$ 35.00	\$ 21.96
<b>Otto Accessories</b>			
<b>Listen Only for Profile &amp; Evolution Speaker Microphone</b>			
Otto V1-10432	Earpiece to use with Otto speaker mics - right angle plug	\$ 48.00	\$ 30.12
Otto V1-EH22R131	D-hanger piece to use with Otto speaker mics - right angle plug	\$ 28.00	\$ 17.57
<b>Optional PTT's</b>			
Otto V1-10513	Ring PTT to use with headsets with pigtails	\$ 30.00	\$ 18.83
Otto V1-10514	Flat PTT to use with headsets with pigtails	\$ 48.00	\$ 30.12
Otto V1-10515	Barrel PTT to use with headsets with pigtails	\$ 38.00	\$ 23.85
Otto V1-10519	80mm body PTT to use with headsets with pigtails	\$ 120.00	\$ 75.30
<b>Accessories</b>			
Otto V1-10822	2-wire palm mic kit (black)	\$ 113.00	\$ 70.91
Otto V4-10514	Lightweight single speaker headset with in-line PTT	\$ 135.00	\$ 84.71
Otto V4-BA2CM1	Breeze behind-the-head headset, single speaker, with left boom	\$ 109.00	\$ 68.40
Otto V4-BA2CM3B	Breeze behind-the-head headset, in-line PTT, pigtail for remote PTT	\$ 120.00	\$ 75.30
Otto V4-EX2CM1	Explorer, lightweight, flexible earloop with boom mic	\$ 125.00	\$ 78.44
Otto V4-HC2CM1	Hurricane, lightweight, dual ear, behind-the-head headset	\$ 317.00	\$ 198.92
Otto V2-G2CM211	Genesis waterproof speaker mic with removable grill	\$ 180.00	\$ 112.95
Otto V2-10315	H2O Evolution style speaker mic immersion rated (IP68)	\$ 140.00	\$ 87.85
Otto V2-10314	Evolution heavy duty speaker mic	\$ 125.00	\$ 78.44
Otto V2-L2CM11	Profile speaker mic	\$ 91.00	\$ 57.10
<b>IS Approved</b>			
Otto V4-10469-S	Over the head, noise attenuating headset	\$ 405.00	\$ 254.14
Otto V4-10470-S	Behind the head style, noise attenuating headset	\$ 450.00	\$ 282.38
Otto V2-10273-S	H2O Evolution style speaker mic immersion rated (IP68)	\$ 166.00	\$ 104.17
Otto V2-10274-S	Evolution heavy duty speaker mic	\$ 147.00	\$ 92.24

# P25 TRUNKING PORTABLES

## F9011 - F9021 SERIES

### VERSIONS

F9011B 01	136-174 MHz P25 trunking portable without LCD and no keypad
F9011S 05	136-174 MHz P25 trunking portable with LCD and no keypad
F9011T 10	136-174 MHz P25 trunking portable with LCD and full keypad
F9021B 01*	400-470 MHz P25 trunking portable without LCD and no keypad
F9021S 05*	400-470 MHz P25 trunking portable with LCD and no keypad
F9021T 10*	400-470 MHz P25 trunking portable with LCD and full keypad

\* Special Order Only. Please contact Icom America for lead time.

### FEATURES

Output Power:	6W (VHF); 5W (UHF)
Channels:	512 channels / 128 zones
Channel Spacing:	15/30 kHz (analog), 12.5 kHz (digital)
PLL Channel Spacing:	2.5 / 3.125 kHz
Display:	Dot matrix LCD display
MIL SPEC:	810 C, D, E
Scan:	Normal, Priority & Dual Priority
Programmable:	PC with CS-F9010/F9510 software
Weight:	1.17 lb (with BP-254)
General Features:	6W RF output power on VHF version (F9011) 4-way navigation cross keypad 1000mW audio output with built-in BTL amplifier even when used with optional speaker mic 14-pin accessory connector Digital / Analog mixed mode operation Encryption button and 3-position zone select switch Enhanced vocoder ready IP57 dust-tight and waterproof protection
Compliant Standards:	TIA/EIA TSB 102, CAAB, Digital C4FM Transceiver Performance Recommendations
Included with Radio:	Antenna, battery (BP-254), belt clip (MB-115) & owners manual
Warranty:	3 Years

### MULTIPLE SIGNALING

CTCSS and DTCS encoder and decoder; 2-tone encoder and decoder, and MDC1200 compatible (analog mode only)

### ENCRYPTION

AES & DES:	UT-125
DES:	UT-128

### BATTERIES AND CHARGERS

BP-254 3040 mAh Li-Ion Battery  
BP-237 AA Battery Case  
BC-119N 61 Desktop Rapid Charger  
BC-121N F70 6-Unit Gang Charger



# F9011 - F9021 SERIES PRICING

Model	Description	Retail	GSA	20+	50+	100+	200+	400+
F9011B 01	136-174 MHz P25 trunking portable, no display & no keypad (includes radio, antenna, BP-254 battery, belt clip and owners manual)	\$ 2,450.00	\$ 1,537.38	\$ 1,460.51	\$ 1,429.76	\$ 1,383.64	\$ 1,352.89	\$ 1,306.77
F9011B 01 RC	With BC-119N 61 rapid charger	\$ 2,530.00	\$ 1,587.58	\$ 1,508.20	\$ 1,476.44	\$ 1,428.82	\$ 1,397.07	\$ 1,349.44
F9011S 05	136-174 MHz P25 trunking portable, display & no keypad (includes radio, antenna, BP-254 battery, belt clip and owners manual)	\$ 3,130.00	\$ 1,964.08	\$ 1,865.87	\$ 1,826.59	\$ 1,767.67	\$ 1,728.39	\$ 1,669.46
F9011S 05 RC	With BC-119N 61 rapid charger	\$ 3,210.00	\$ 2,014.28	\$ 1,913.56	\$ 1,873.28	\$ 1,812.85	\$ 1,772.56	\$ 1,712.13
F9011T 10	136-174 MHz P25 trunking portable, display & full keypad (includes radio, antenna, BP-254 battery, belt clip and owners manual)	\$ 3,525.00	\$ 2,211.94	\$ 2,101.34	\$ 2,057.10	\$ 1,990.74	\$ 1,946.51	\$ 1,880.15
F9011T 10 RC	With BC-119N 61 rapid charger	\$ 3,605.00	\$ 2,262.14	\$ 2,149.03	\$ 2,103.79	\$ 2,035.92	\$ 1,990.68	\$ 1,922.82
F9021B 01*	400-470 MHz P25 trunking portable, no display & no keypad (includes radio, antenna, BP-254 battery, belt clip and owners manual)	\$ 2,450.00	\$ 1,537.38	\$ 1,460.51	\$ 1,429.76	\$ 1,383.64	\$ 1,352.89	\$ 1,306.77
F9021B 01 RC*	With BC-119N 61 rapid charger	\$ 2,530.00	\$ 1,587.58	\$ 1,508.20	\$ 1,476.44	\$ 1,428.82	\$ 1,397.07	\$ 1,349.44
F9021S 05*	400-470 MHz P25 trunking portable, display & no keypad (includes radio, antenna, BP-254 battery, belt clip and owners manual)	\$ 3,130.00	\$ 1,964.08	\$ 1,865.87	\$ 1,826.59	\$ 1,767.67	\$ 1,728.39	\$ 1,669.46
F9021S 05 RC*	With BC-119N 61 rapid charger	\$ 3,210.00	\$ 2,014.28	\$ 1,913.56	\$ 1,873.28	\$ 1,812.85	\$ 1,772.56	\$ 1,712.13
F9021T 10*	400-470 MHz P25 trunking portable, display & full keypad (includes radio, antenna, BP-254 battery, belt clip and owners manual)	\$ 3,525.00	\$ 2,211.94	\$ 2,101.34	\$ 2,057.10	\$ 1,990.74	\$ 1,946.51	\$ 1,880.15
F9021T 10 RC*	With BC-119N 61 rapid charger	\$ 3,605.00	\$ 2,262.14	\$ 2,149.03	\$ 2,103.79	\$ 2,035.92	\$ 1,990.68	\$ 1,922.82

\* Special order only. Please contact Icom America for lead time.

# F9011 - F9021 SERIES ACCESSORIES

Model	Description	Retail	GSA
<b>Antenna</b>			
FA-S25V	136-148 MHz flexible antenna (blue ring)	\$ 12.00	\$ 7.53
FA-S65V	148-160 MHz flexible antenna (red ring)	\$ 12.00	\$ 7.53
FA-S66V	160-174 MHz flexible antenna (green ring)	\$ 12.00	\$ 7.53
FA-S58U	430-470 MHz flexible antenna	\$ 16.00	\$ 10.04
FA-S75U	470-520 MHz flexible antenna	\$ 16.00	\$ 10.04
FA-S67VC	136-174 MHz cut type antenna	\$ 15.00	\$ 9.41
FA-S76UC	380-520 MHz cut type antenna	\$ 17.00	\$ 10.67
<b>Batteries</b>			
BP-237	AA alkaline battery case (holds 6)	\$ 39.00	\$ 24.47
BP-254	7.4V 3040 mAh Li-Ion battery pack	\$ 150.00	\$ 94.13
<b>Belt Clip</b>			
MB-115	Alligator type belt clip (supplied with radio)	\$ 10.00	\$ 6.28
<b>Cables</b>			
OPC-515L	Power supply cable for use with BC119N	\$ 23.00	\$ 14.43
OPC-656	Power supply cable for use with BC121N	\$ 10.50	\$ 6.59
<b>Carrying Case (These Items are Open Market)</b>			
LCF9011S SWIVEL	Leather carrying case with swivel (for no keypad version)	\$ 50.00	\$ 31.38
LCF9011T SWIVEL	Leather carrying case with swivel (for keypad version)	\$ 50.00	\$ 31.38
<b>Chargers</b>			
AD-110	Adapter cup for BC119N and BC121N chargers	\$ 23.00	\$ 14.43
BC-119N 01	110V desktop rapid charger (requires AD110 adapter cup)	\$ 72.00	\$ 45.18
BC-119N 02	220V desktop rapid charger (requires AD110 adapter cup)	\$ 74.00	\$ 46.44
BC-119N 61	110V desktop rapid charger (with AD110 installed)	\$ 95.00	\$ 59.61
BC-121N	Multi-charger (requires BC157 and 6 each of AD110)	\$ 305.00	\$ 191.39
BC-121N F70	117V Complete Multi-Unit Desktop Charger (includes BC157 & AD110)	\$ 550.00	\$ 345.13
BC-121N F70 220V	220V Complete Multi-Unit Desktop Charger (includes BC157 & AD110)	\$ 555.00	\$ 348.26
BC-145SA 31	117V AC adapter for BC119N (included with BC119N 01)	\$ 25.00	\$ 9.66
BC-145SE 32	220V AC adapter for BC119N (included with BC119N 02)	\$ 25.00	\$ 15.69
BC-157 02	110V AC adapter for BC-121N	\$ 115.00	\$ 72.16
BC-157 04	220V AC adapter for BC-121N	\$ 120.00	\$ 75.30
CP-17L	Cigarette lighter cable for use with BC-119N	\$ 26.00	\$ 16.32
<b>Headsets (*These Items are Open Market)</b>			
HS-94*	Ear-piece type headset (requires PTT/VOX unit)	\$ 25.00	\$ 15.69
HS-95	Headset with boom mic (requires PTT/VOX unit)	\$ 210.00	\$ 131.78
HS-97*	Earphone with throat mic (requires PTT/VOX unit)	\$ 42.00	\$ 26.36
VS-1MC	PTT/VOX unit (required when using above headsets with radio)	\$ 84.00	\$ 52.71
SP-13	Earphone for handhelds	\$ 5.00	\$ 3.04
<b>Internal Modules (only one module per radio)</b>			
UT-124R 02	Man Down Unit	\$ 90.00	\$ 56.48
UT-125 01	AES and DES encryption board	\$ 789.00	\$ 495.10
UT-128	DES encryption board (special order only - min. order 50 units)	\$ 420.00	\$ 263.55
<b>Manuals</b>			
98815487	Owners Manual (F9011)	\$ 12.00	\$ 7.53
97715424	Service Manual (F9011)	\$ 40.00	\$ 22.09
94415435	CD Service Manual (F9011)	\$ 40.00	\$ 22.09
<b>Programming Software and Cable</b>			
CS-F9010/F9510	Programming software	\$ 75.00	\$ 47.06
OPC-1862	Programming cable with USB connector	\$ 189.00	\$ 118.60
OPC-1871	Portable to mobile zone copy cable	\$ 110.00	\$ 69.03
OPC-1870	Portable to portable zone copy cable	\$ 125.00	\$ 78.44
OPC-1534	Key loader cable (must use with OPC-1871 and RJ-45 to RJ-45 female-female modular adaptor (not supplied))	\$ 225.00	\$ 141.19
<b>Speaker Microphone</b>			
HM-184	Waterproof microphone with a programmable button equivalent to IP57	\$ 158.00	\$ 99.15
<b>Installation Charges (Open Market)</b>			
INSTALLM6789	Installation charge for 1-25 radios	\$ 70.00	\$ 43.93
INSTALLM6789	Installation charge for 25-49 radios	\$ 70.00	\$ 37.65
INSTALLM6789	Installation charge for 50+ radios	\$ 70.00	\$ 31.38
<b>Programming Charges (Open Market)</b>			
PROGLM6789	Programming charge for 1-25 radios	\$ 70.00	\$ 43.93
PROGLM6789	Programming charge for 25-49 radios	\$ 70.00	\$ 34.51
PROGLM6789	Programming charge for 50+ radios	\$ 70.00	\$ 28.24
<b>Extended Warranty (Open Market)</b>			
EXTWARP25P1	1 year extended warranty for a total of 4 years	\$ 65.00	\$ 40.79
EXTWARP25P2	2 years extended warranty for a total of 5 years	\$ 93.00	\$ 58.36
EXTWARP25P3	3 years extended warranty for a total of 6 years	\$ 130.00	\$ 81.58

Prices are subject to change, corrections, and pending GSA approval.

GSA Contract #  
GS-35F-0109L

# BASIC & ADVANCED MOBILES

## F121 - F221 SERIES

### VERSIONS

VHF 50W, 8 Channels	
F121S 51	136-174 MHz
VHF 50W, 128 Channels	
F121 51	136-174 MHz
UHF 45W, 8 Channels	
F221S 52	440-490 MHz
UHF 45W, 128 Channels	
F221 52	440-490 MHz

### FEATURES

Output Power:	50W (VHF), 45W (UHF)
Channels:	8 channels w/2 banks (S version) or 128 channels w/8 banks (non-S version)
Channel Spacing:	12.5/25 kHz
PLL Channel Spacing:	2.5, 3.125 (UHF); 5, 6.25 (UHF)
Programmable Keys:	4 (S version) 6 (non-S version)
Display:	8 character alphanumeric LCD on F121/F221
Mil Spec:	810 C, D, E
Scan:	Normal and Priority
PC Programmable:	With CS-F100S/CS-F100 software
Other features:	Front firing speaker Multiple 2-tones (10) Interactive LED indicators (S version only) Name your bank (F121/F221 only) More hook scan options Independent AF volume knob Backlit keys Fractional-N PLL provides faster lock up times Power on password and 'stun' functions Rugged construction, one piece, die-cast aluminum frame

Included with Radio: Microphone (HM-152), mounting bracket, power cable & owners manual

### SIGNALING

Built-in CTCSS, DTCS encode/decode, 2-tone, 5-tone, DTMF encode  
MDC1200 PTT ID & Emergency Call - F121S/F221S only  
DTMF Decode: UT-108

### ENCRYPTION

Simple Inversion: UT-109 02 32 Codes  
Rolling Code: UT-110 02 1020 Codes



F121S



F121

# F121-F221 PRICING

Model	Description	Retail	GSA	20+	50+	100+	200+	400+
F121S 51	VHF Mobile 136-174 MHz, 50W, 8 Channels, no display, MDC1200	\$ 360.00	\$ 225.90	\$ 214.61	\$ 210.09	\$ 203.31	\$ 198.79	\$ 194.27
F121 51	VHF Mobile 136-174 MHz, 50W, 128 Channels, 8 character display, MDC1200	\$ 412.00	\$ 258.53	\$ 245.60	\$ 240.43	\$ 232.68	\$ 227.51	\$ 222.34
F221S 52	UHF Mobile 440-490 MHz, 45W, 8 Channels, no display, MDC1200	\$ 395.00	\$ 247.86	\$ 235.47	\$ 230.51	\$ 223.08	\$ 218.12	\$ 213.16
F221 52	UHF Mobile 440-490 MHz, 45W, 128 Channels, 8 character display, MDC1200	\$ 435.00	\$ 272.96	\$ 259.31	\$ 253.86	\$ 245.67	\$ 240.21	\$ 234.75

Model	Description	Retail	GSA	2-5	6-10	11-15	16+
F121S 51 B	Radio installed in SAM33171 F121 base station power supply	\$ 550.00	\$ 345.13	\$ 341.67	\$ 334.77	\$ 327.87	\$ 320.97
F121 51 B	Radio installed in SAM33171 F121 base station power supply	\$ 602.00	\$ 377.76	\$ 373.98	\$ 366.42	\$ 358.87	\$ 351.31
F221S 52 B	Radio installed in SAM33171 F121 base station power supply	\$ 585.00	\$ 367.09	\$ 363.42	\$ 356.07	\$ 348.73	\$ 341.39
F221 52 B	Radio installed in SAM33171 F121 base station power supply	\$ 625.00	\$ 392.19	\$ 388.27	\$ 380.42	\$ 372.58	\$ 364.73

Prices are subject to change, corrections and pending GSA approvals.

GSA Contract #: GS-35F-0109L

# F121 - F221 ACCESSORIES

Model	Description	Retail	GSA
<b>Antennas (These items are Open Market)</b>			
ANTENNA 1	136-512MHz Antenna	\$ 20.00	\$ 12.55
ANTENNA 2	5/8 Wave Antenna for VHF 144-174 MHz	\$ 38.00	\$ 23.85
ANTENNA 3	450-470 MHz Antenna for UHF	\$ 42.00	\$ 26.36
<b>AVL/GPS Option</b>			
UT-IA321	Simpletrack GPS card and antenna	\$ 180.00	\$ 112.95
IA10321A	Cloning adapter for UT-321 (use with OPC-1122U)	\$ 70.00	\$ 43.93
<b>Cables</b>			
OPC-617	Accessory Cable for external terminal connection	\$ 57.00	\$ 35.77
OPC-1132	3m DC power cable	\$ 40.00	\$ 21.40
<b>External Speaker (*These items are Open Market)</b>			
SP-5*	Medium sized square external speaker	\$ 65.00	\$ 40.79
SP-10	Compact medium sized rectangular external speaker - 5W, 4 Ohm	\$ 80.00	\$ 50.20
SP-22*	Small rectangular external speaker - 5W, 4 Ohm	\$ 52.00	\$ 32.63
SP-30	Large external speaker with loud audio	\$ 80.00	\$ 50.20
<b>Internal Modules</b>			
UT-108	DTMF Decoder unit	\$ 39.00	\$ 24.47
UT-109 02	Simple voice inversion scrambler with up to 32 Codes	\$ 105.00	\$ 65.89
UT-110 02	Rolling code scrambler with up to 1020 codes (255 codes x 4 groups)	\$ 173.00	\$ 108.56
<b>Manuals</b>			
98814731	F121S/F221S Owners Manual	\$ 12.00	\$ 7.53
98814699	F121/F221 Owners Manual	\$ 12.00	\$ 7.53
97714680	F121S Service manual	\$ 40.00	\$ 22.09
97714679	F221S Service Manual	\$ 40.00	\$ 22.09
97714774	F121 Service Manual	\$ 40.00	\$ 22.09
97714775	F221 Service Manual	\$ 40.00	\$ 22.09
94414682	CD Service Manual	\$ 40.00	\$ 22.09
<b>Microphones</b>			
HM-148	Heavy duty microphone	\$ 82.00	\$ 51.46
HM-148 UPGRADE	Pull HM152 and substitute HM148	\$ 38.00	\$ 23.85
HM-148G	Heavy duty self grounding microphone	\$ 100.00	\$ 62.75
HM-148T	Heavy duty DTMF microphone	\$ 156.00	\$ 97.89
HM-152	Standard microphone	\$ 44.00	\$ 27.61
HM-152T	DTMF microphone	\$ 85.00	\$ 53.34
SM-25	Desktop microphone equipped with a monitor switch	\$ 110.00	\$ 69.03
<b>Mounting Bracket (*These items are Open Market)</b>			
F121 MMB	Standard mounting bracket	\$ 10.00	\$ 6.28
MOUNT 1*	Roof Mount	\$ 21.00	\$ 13.18
MOUNT 2*	Trunk Gutter Mount	\$ 30.00	\$ 18.83
MOUNT 3*	Magnetic Mount	\$ 40.00	\$ 25.10
<b>Power Supply (This item is Open Market)</b>			
SAM33171 F121	Power supply & cable	\$ 210.00	\$ 131.78
<b>Programming</b>			
CSF-100S	F121S/F221S Windows Programming Software	\$ 75.00	\$ 47.06
CSF-100	F121/F221 Windows Programming Software	\$ 75.00	\$ 47.06
OPC-1122	Programming Cloning Cable for PC to Radio with RC-232S connector	\$ 99.00	\$ 62.12
OPC-1122U	Programming Cloning Cable for PC to Radio with USB connector	\$ 99.00	\$ 62.12
<b>Other Accessories (These items are Open Market)</b>			
Otto V4-10487	Over-the-head, noise attenuating headset	\$ 313.00	\$ 196.41
Otto V4-10488	Behind-the-head style, noise attenuating headset	\$ 365.00	\$ 229.04
<b>Installation Charges (Open Market)</b>			
INSTALLM1234	Installation charge for 1-25 radios	\$ 40.00	\$ 25.10
INSTALLM1234	Installation charger for 25-49 radios	\$ 40.00	\$ 18.83
INSTALLM1234	Installation charge for 50+ radios	\$ 40.00	\$ 12.55
<b>Programming Charges (Open Market)</b>			
PROGLM1234	Programming charge for 1-25 radios	\$ 42.00	\$ 26.36
PROGLM1234	Programming charger for 25-49 radios	\$ 42.00	\$ 15.69
PROGLM1234	Programming charge for 50+ radios	\$ 42.00	\$ 10.67
<b>Extended Warranty (Open Market)</b>			
EXTWARR211	1 year extended warranty for a total of 3 years	\$ 25.00	\$ 15.69
EXTWARR212	2 years extended warranty for a total of 4 years	\$ 44.00	\$ 27.61
EXTWARR213	3 years extended warranty for a total of 5 years	\$ 62.00	\$ 38.91

Prices are subject to change, corrections and pending GSA approvals.

GSA Contract #: GS-35F-0109L

# BASIC & ADVANCED MOBILES

## F5021 - F6021 SERIES

### VERSIONS

F5021 VHF 50W, 128 Channels  
    F5021 51      136-174 MHz  
F6021 UHF 45W, 128 Channels  
    F6021 51      400-470 MHz  
    F6021 52      450-512 MHz

### FEATURES

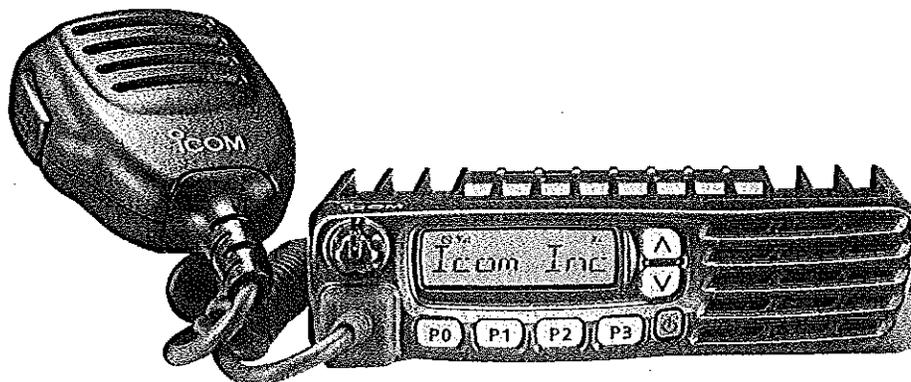
Output power:      50W (VHF); 45W (UHF)  
Channels:           128 with 8 zones  
Channel Spacing:   12.5/25 kHz  
PLL Channel Spacing: 2.5 kHz, 3.125 kHz  
Display:            8 character alphanumeric LCD  
Programmable Keys: 6  
Mil Spec:           810 C, D, E, F  
Scan:               Normal & Priority  
PC Programmable:   With CS-F3021/F5021 software  
Other Features:     External memory channel control with optional ACC cable  
                     TX channel setting and talk back function  
                     Radio kill, stun, revive  
                     Embedded ESN  
                     Backlit keys  
                     Mode dependent scan  
Included with Radio: Microphone (HM-152), mounting bracket, power cable & owners manual

### SIGNALING

Built-in 2-tone, 5-tone, CTCSS/DTCS, PTT ID and quiet stand-by when others are talking  
CTCSS/DTCS high speed decode and 2-tone decode accuracy  
MDC1200 - PTT ID (TX/RX), radio stun (RX), emergency TX/RX (No ACK), 5 alias table, radio check (RX) & radio revive (RX)

### ENCRYPTION

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



# F5021 - F6021 SERIES PRICING

Model	Description	Retail	GSA	20+	50+	100+	200+	400+
F5021 51	136-174 MHz, 50W, 128 channels (includes HM-152 microphone, mounting bracket, power cable and owners manual)	\$ 450.00	\$ 282.38	\$ 268.26	\$ 262.61	\$ 254.14	\$ 248.49	\$ 242.84
F6021 51	400-470 MHz, 45W, 128 channels (includes HM-152 microphone, mounting bracket, power cable and owners manual)	\$ 450.00	\$ 282.38	\$ 268.26	\$ 262.61	\$ 254.14	\$ 248.49	\$ 242.84
F6021 52	450-512 MHz, 45W, 128 channels (includes HM-152 microphone, mounting bracket, power cable and owners manual)	\$ 450.00	\$ 282.38	\$ 268.26	\$ 262.61	\$ 254.14	\$ 248.49	\$ 242.84

Model	Description	Retail	GSA	2-5	6-10	11-15	16+
F5021 51B	Radio installed in SAM33171 base station power supply	\$ 640.00	\$ 401.60	\$ 397.58	\$ 389.55	\$ 381.52	\$ 373.49
F6021 51B	Radio installed in SAM33171 base station power supply	\$ 640.00	\$ 401.60	\$ 397.58	\$ 389.55	\$ 381.52	\$ 373.49
F6021 52B	Radio installed in SAM33171 base station power supply	\$ 640.00	\$ 401.60	\$ 397.58	\$ 389.55	\$ 381.52	\$ 373.49

Prices are subject to change, corrections, and pending GSA approval.

GSA Contract:  
GS-35F-0109L

# F5021 - F6021 SERIES ACCESSORIES

Model	Description	Retail	GSA
<b>Antennas (These items are Open Market)</b>			
ANTENNA 1	136-512MHz Antenna	\$ 20.00	\$ 12.55
ANTENNA 2	5/8 Wave Antenna for VHF 144-174 MHz	\$ 38.00	\$ 23.85
ANTENNA 3	450-470 MHz Antenna for UHF	\$ 42.00	\$ 26.36
<b>Cables</b>			
OPC-1132	3m DC power cable	\$ 40.00	\$ 21.40
OPC-1939	D-SUB 15-pin ACC cable - connects with a PC, external speaker, external channel control, ignition sense line or vehicle horn	\$ 120.00	\$ 75.30
<b>External Speakers (*These items are Open Market)</b>			
SP-5*	Medium sized square external speaker	\$ 65.00	\$ 40.79
SP-10	Compact medium sized rectangular external speaker - 5W, 4 Ohm	\$ 80.00	\$ 50.20
SP-22*	Small rectangular mobile external speaker - 5W, 4 Ohm	\$ 52.00	\$ 32.63
SP-30	Large external speaker with loud audio	\$ 80.00	\$ 50.20
<b>Internal Modules</b>			
UT-108R	DTMF Decoder unit	\$ 39.00	\$ 24.47
UT-109R	Simple voice inversion scrambler with up to 32 codes	\$ 105.00	\$ 65.89
UT-110R	Rolling code scrambler w/up to 1020 (255 codes x 4 groups)	\$ 173.00	\$ 108.56
<b>Manuals</b>			
TBD	F5021/F6021 owners manual	\$ 12.00	\$ 7.53
97715439	F5021 Service Manual	\$ 40.00	\$ 22.09
97715473	F6021 Service Manual	\$ 40.00	\$ 22.09
94415499	F5021 CD service manual	\$ 40.00	\$ 22.09
<b>Microphones</b>			
HM-152	Standard microphone	\$ 44.00	\$ 27.61
HM-152T	DTMF microphone	\$ 85.00	\$ 53.34
HM-148G	Heavy duty microphone	\$ 100.00	\$ 62.75
HM-148G UPGRADE	Pull HM-152 and substitute HM-148G	\$ 56.00	\$ 35.14
HM-148T	Heavy duty DTMF microphone, self grounding type	\$ 156.00	\$ 97.89
SM-25	Desktop mic for dispatching - equipped w/monitor switch	\$ 110.00	\$ 69.03
<b>Mounting Bracket (*These items are Open Market)</b>			
F5021 MMB	Standard mounting bracket	TBD	TBD
MOUNT 1*	Roof Mount	\$ 21.00	\$ 13.18
MOUNT 2*	Trunk Gutter Mount	\$ 30.00	\$ 18.83
MOUNT 3*	Magnetic Mount	\$ 40.00	\$ 25.10
<b>Power Supply (This item is Open Market)</b>			
SAM33172 F121	Power supply and cabinet	\$ 210.00	\$ 131.78
<b>Programming</b>			
CS-F3021/F5021	F5021/F6021 Windows programming software	\$ 75.00	\$ 47.06
OPC-1122	Programming cable - PC to radio with RC-232S connector	\$ 99.00	\$ 62.12
OPC-1122U	Programming cable - PC to radio with USB connector	\$ 99.00	\$ 62.12
<b>Installation Charges (Open Market)</b>			
INSTALLM1234	Installation charge for 1-25 radios	\$ 40.00	\$ 25.10
INSTALLM1234	Installation charger for 25-49 radios	\$ 40.00	\$ 18.83
INSTALLM1234	Installation charge for 50+ radios	\$ 40.00	\$ 12.55
<b>Programming Charges (Open Market)</b>			
PROGLM1234	Programming charge for 1-25 radios	\$ 42.00	\$ 26.36
PROGLM1234	Programming charger for 25-49 radios	\$ 42.00	\$ 15.69
PROGLM1234	Programming charge for 50+ radios	\$ 42.00	\$ 10.67
<b>Extended Warranty (Open Market)</b>			
EXTWARR211	1 year extended warranty for a total of 3 years	\$ 25.00	\$ 15.69
EXTWARR212	2 years extended warranty for a total of 4 years	\$ 44.00	\$ 27.61
EXTWARR213	3 years extended warranty for a total of 5 years	\$ 62.00	\$ 38.91

# IDAS MOBILES (Conventional, LTR, or Digital) F5061 - F6061 SERIES

## VERSIONS

F5061 VHF 50W	
F5061 11	136-174 MHz
F6061 UHF 45W	
F6061 11	400-470 MHz
F6061 16	450-512 MHz

## FEATURES

Output Power:	50W (VHF); 45W (UHF)
Channels:	512 with 128 zones
Channel Spacing:	12.5/25 kHz
PLL Channel Step:	2.5, 3.125
Display:	LCD full dot matrix, switchable 1 line 12 character or 2 line 24 characters
Programmable Keys:	7
Mil Spec:	810 C, D, E
Scan:	Normal, priority & dual priority
Programmable:	PC with CS-F3161/F5061 software
Other Features:	Detachable front panel (requires separation kit) Voting Scan D-Sub accessory connector 8 DTMF autodial memories and ANI functions w/DTMF Power on password Radio stun/kill Surveillance function temporarily turns off LED's Key assign stickers supplied Busy repeater lockout function

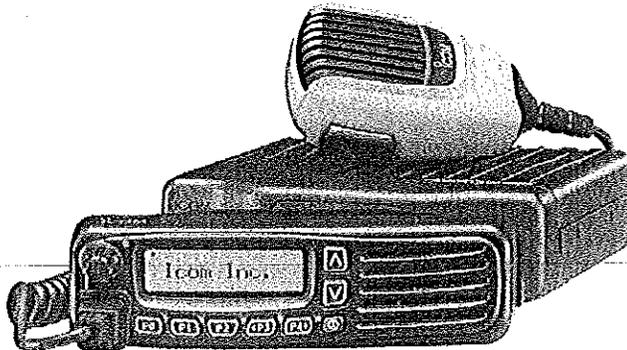
Included with Radio: Hand microphone (HM-148G), mounting bracket kit, DC power cable & owners manual

## MULTIPLE SIGNALING

Encode and Decode Built in... no options necessary  
CTCSS, DCS, 2 Tone, 5 Tone, DTMF, ANI with 2/5 tone & DTMF  
LTR® & MDC1200  
PassPort 2.8 & 4.0 Optional

## ENCRYPTION

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



# F5061 - F6061 SERIES PRICING

Model	Description	Retail	GSA	20+	50+	100+	200+	400+
F5061 11	136-174 MHz, 50W, analog or LTR (includes HM-148G microphone, mounting bracket kit, DC power cable and owners manual)	\$ 620.00	\$ 389.05	\$ 369.60	\$ 361.82	\$ 350.15	\$ 342.36	\$ 334.58
F5061D 31	Radio with UT-126 installed to use 6.25 kHz digital channels (includes HM-148G microphone, mounting bracket kit, DC power cable and owners manual)	\$ 825.00	\$ 517.69	\$ 491.80	\$ 481.45	\$ 465.92	\$ 455.57	\$ 445.21
F6061 11	400-470 MHz, 45W, analog or LTR (includes HM-148G microphone, mounting bracket kit, DC power cable and owners manual)	\$ 620.00	\$ 389.05	\$ 369.60	\$ 361.82	\$ 350.15	\$ 342.36	\$ 334.58
F6061D 31	Radio with UT-126 installed to use 6.25 kHz digital channels (includes HM-148G microphone, mounting bracket kit, DC power cable and owners manual)	\$ 825.00	\$ 517.69	\$ 491.80	\$ 481.45	\$ 465.92	\$ 455.57	\$ 445.21
F6061 16	450-512 MHz, 45W, analog or LTR (includes HM-148G microphone, mounting bracket kit, DC power cable and owners manual)	\$ 620.00	\$ 389.05	\$ 369.60	\$ 361.82	\$ 350.15	\$ 342.36	\$ 334.58
F6061D 36	Radio with UT-126 installed to use 6.25 kHz digital channels (includes HM-148G microphone, mounting bracket kit, DC power cable and owners manual)	\$ 825.00	\$ 517.69	\$ 491.80	\$ 481.45	\$ 465.92	\$ 455.57	\$ 445.21

Model	Description	Retail	GSA	2-5	6-10	11-15	16+
F5061 11B	Radio with SAM33172 F5061 power supply & cabinet	\$ 810.00	\$ 508.28	\$ 503.19	\$ 493.03	\$ 482.86	\$ 472.70
F5061D 31B	Radio with UT-126 board installed with SAM33172 F5061 power supply & cabinet	\$ 1,015.00	\$ 636.91	\$ 630.54	\$ 617.81	\$ 605.07	\$ 592.33
F6061 11B	Radio with SAM33172 F5061 power supply & cabinet	\$ 810.00	\$ 508.28	\$ 503.19	\$ 493.03	\$ 482.86	\$ 472.70
F6061D 31B	Radio with UT-126 board installed with SAM33172 F5061 power supply & cabinet	\$ 1,015.00	\$ 636.91	\$ 630.54	\$ 617.81	\$ 605.07	\$ 592.33
F6061 16B	Radio with SAM33172 F5061 power supply & cabinet	\$ 810.00	\$ 508.28	\$ 503.19	\$ 493.03	\$ 482.86	\$ 472.70
F6061D 36B	Radio with UT-126 board installed with SAM33172 F5061 power supply & cabinet	\$ 1,015.00	\$ 636.91	\$ 630.54	\$ 617.81	\$ 605.07	\$ 592.33

# F5061 - F6061 SERIES PRICING (WITH EMDC)

Model	Description	Retail	GSA	20+	50+	100+	200+	400+
F5061 11 EMDC	136-174 MHz, 50W, analog or LTR with Enhanced MDC (includes HM-148G microphone, mounting bracket kit, DC power cable and owners manual)	\$ 617.00	\$ 387.17	\$ 367.81	\$ 360.07	\$ 348.45	\$ 340.71	\$ 332.96
F5061D 31 EMDC	Radio with UT-126 installed to use 6.25 kHz digital channels with Enhanced MDC (includes HM-148G microphone, mounting bracket kit, DC power cable and owners manual)	\$ 842.00	\$ 528.36	\$ 501.94	\$ 491.37	\$ 475.52	\$ 464.95	\$ 454.39
F6061 11 EMDC	400-470 MHz, 45W, analog or LTR with Enhanced MDC (includes HM-148G microphone, mounting bracket kit, DC power cable and owners manual)	\$ 617.00	\$ 387.17	\$ 367.81	\$ 360.07	\$ 348.45	\$ 340.71	\$ 332.96
F6061D 31 EMDC	Radio with UT-126 installed to use 6.25 kHz digital channels with Enhanced MDC (includes HM-148G microphone, mounting bracket kit, DC power cable and owners manual)	\$ 842.00	\$ 528.36	\$ 501.94	\$ 491.37	\$ 475.52	\$ 464.95	\$ 454.39
F6061 16 EMDC	450-512 MHz, 45W, analog or LTR with Enhanced MDC (includes HM-148G microphone, mounting bracket kit, DC power cable and owners manual)	\$ 617.00	\$ 387.17	\$ 367.81	\$ 360.07	\$ 348.45	\$ 340.71	\$ 332.96
F6061D 36 EMDC	Radio with UT-126 installed to use 6.25 kHz digital channels with Enhanced MDC (includes HM-148G microphone, mounting bracket kit, DC power cable and owners manual)	\$ 842.00	\$ 528.36	\$ 501.94	\$ 491.37	\$ 475.52	\$ 464.95	\$ 454.39

Model	Description	Retail	GSA	2-5	6-10	11-15	16+
F5061 11B EMDC	Radio with SAM33172 F5061 power supply & cabinet	\$ 807.00	\$ 506.39	\$ 501.33	\$ 491.20	\$ 481.07	\$ 470.95
F5061D 31B EMDC	Radio with UT-126 board installed with SAM33172 F5061 power supply & cabinet	\$ 1,032.00	\$ 647.58	\$ 641.10	\$ 628.15	\$ 615.20	\$ 602.25
F6061 11B EMDC	Radio with SAM33172 F5061 power supply & cabinet	\$ 807.00	\$ 506.39	\$ 501.33	\$ 491.20	\$ 481.07	\$ 470.95
F6061D 31B EMDC	Radio with UT-126 board installed with SAM33172 F5061 power supply & cabinet	\$ 1,032.00	\$ 647.58	\$ 641.10	\$ 628.15	\$ 615.20	\$ 602.25
F6061 16B EMDC	Radio with SAM33172 F5061 power supply & cabinet	\$ 807.00	\$ 506.39	\$ 501.33	\$ 491.20	\$ 481.07	\$ 470.95
F6061D 36B EMDC	Radio with UT-126 board installed with SAM33172 F5061 power supply & cabinet	\$ 1,032.00	\$ 647.58	\$ 641.10	\$ 628.15	\$ 615.20	\$ 602.25

# F5061 - F6061 SERIES ACCESSORIES

Model	Description	Retail	GSA
<b>Antennas (These items are Open Market)</b>			
ANTENNA 1	136-512MHz Antenna	\$ 20.00	\$ 12.55
ANTENNA 2	5/8 Wave Antenna for VHF 144-174 MHz	\$ 38.00	\$ 23.85
ANTENNA 3	450-470 MHz Antenna for UHF	\$ 42.00	\$ 26.36
<b>Cables</b>			
OPC-1132	3m DC power cable	\$ 40.00	\$ 21.40
<b>External Speakers (*These items are Open Market)</b>			
SP-5*	Medium sized square external speaker	\$ 65.00	\$ 40.79
SP-10	Compact medium sized rectangular external speaker - 5W, 4 Ohm	\$ 80.00	\$ 50.20
SP-22*	Small rectangular external speaker - 5W, 4 Ohm	\$ 52.00	\$ 32.63
SP-30	Large external speaker with loud audio	\$ 80.00	\$ 50.20
<b>GPS</b>			
UT-IA321	GPS DB-25 accessory connector	\$ 180.00	\$ 112.95
<b>Internal Modules</b>			
UT-109R	Simple voice inversion scrambler with up to 32 codes	\$ 105.00	\$ 65.89
UT-110R	Rolling code scrambler w/up to 1020 (255 codes x 4 groups)	\$ 173.00	\$ 108.56
UT-126H	6.25kHz digital board	\$ 250.00	\$ 155.31
<b>Manuals</b>			
94415251	CD Service Manual	\$ 40.00	\$ 22.09
97715252	F5061 Service Manual	\$ 40.00	\$ 22.09
97715259	F6061 Service Manual	\$ 40.00	\$ 22.09
98815253	F5061 Owners Manual	\$ 12.00	\$ 7.53
98815260	F6061 Owners Manual	\$ 12.00	\$ 7.53
<b>Microphones</b>			
HM-148	Heavy duty microphone	\$ 82.00	\$ 51.46
HM-148G	Heavy duty self grounding microphone (supplied with radio)	\$ 100.00	\$ 62.75
HM-148T	Heavy duty DTMF microphone	\$ 156.00	\$ 97.89
HM-152	Standard microphone	\$ 44.00	\$ 27.61
HM-152T	DTMF microphone	\$ 85.00	\$ 53.34
SM-25	Desktop mic for dispatching - equipped w/monitor switch	\$ 110.00	\$ 69.03
<b>Mounts (These items are Open Market)</b>			
MOUNT 1	Roof Mount	\$ 21.00	\$ 13.18
MOUNT 2	Trunk Gutter Mount	\$ 30.00	\$ 18.83
MOUNT 3	Magnetic Mount	\$ 40.00	\$ 25.10
<b>PassPort</b>			
PassPort 2.8 Upgrade	Firmware upgrade to PassPort 2.8 done at Icom America	\$ 60.00	\$ 37.65
PassPort 4.0 Upgrade	Firmware upgrade to PassPort 4.0 done at Icom America	\$ 85.00	\$ 53.34
<b>Power Supply (This item is Open Market)</b>			
SAM33172 F5061	Power supply and cabinet	\$ 210.00	\$ 131.78
<b>Programming</b>			
CS-F3161/F5061	Programming Software	\$ 72.00	\$ 45.18
OPC-1122	Programming cable - PC to radio with RC-232S connector	\$ 99.00	\$ 62.12
OPC-1122U	Programming cable - PC to radio with USB connector	\$ 99.00	\$ 62.12
<b>Separation Kits</b>			
RMK3 01	For front panel detachment use one of the cables below	\$ 115.00	\$ 72.16
OPC-607	9.8ft separation cable	\$ 55.00	\$ 24.30
OPC-608	26.2ft separation cable	\$ 70.00	\$ 43.93
OPC-609	6.2ft separation cable	\$ 52.00	\$ 32.63
OPC-726	16.3ft separation cable	\$ 63.00	\$ 39.53
<b>Installation Charges (Open Market)</b>			
INSTALLM6789	Installation charge for 1-25 radios	\$ 70.00	\$ 43.93
INSTALLM6789	Installation charge for 25-49 radios	\$ 70.00	\$ 37.65
INSTALLM6789	Installation charge for 50+ radios	\$ 70.00	\$ 31.38
<b>Programming Charges (Open Market)</b>			
PROGLM6789	Programming charge for 1-25 radios	\$ 70.00	\$ 43.93
PROGLM6789	Programming charge for 25-49 radios	\$ 70.00	\$ 34.51
PROGLM6789	Programming charge for 50+ radios	\$ 70.00	\$ 28.24
<b>Extended Warranty (Open Market)</b>			
EXTWARR611	1 year extended warranty for a total of 4 years	\$ 40.00	\$ 25.10
EXTWARR612	2 years extended warranty for a total of 5 years	\$ 70.00	\$ 43.93
EXTWARR613	3 years extended warranty for a total of 6 years	\$ 110.00	\$ 69.03

Prices are subject to change, correction, and pending GSA approval.

GSA Contract #: GS-35F-0109L

# HIGH END MOBILES

## F1721 - F2721 SERIES

### VERSIONS

VHF 50W, No Keypad F1721 03	136-174 MHz, 50W, with keypad
UHF 45W, No Keypad F2721 05/06	400-470 MHz or 450-512 MHz
UHF 45W, Keypad F2821 25/26	400-470 MHz or 450-512 MHz

### FEATURES

Output Power:	50W (VHF), 45W (UHF)
Channels:	256 with 32 zones
Channel Spacing:	12.5/25 kHz
PLL Spacing:	2.5, 3.125, 5, 6.25
Display:	LCD full dot matrix, switchable 1 line 12 character or 2 line 24 characters
Programmable Keys:	5 (simple version) or 7 (10-key version)
Mill Spec:	810 C, D, E
Scan:	Normal, priority & dual priority
Programmable:	PC with CSF70/F1700 software
Other Features:	Detachable front panel Radio stun/kill Tactical group function Impact resistant polycarbonate front panel Built-in audio compander (analog mode only) 22W pa built-in 4W speaker Power-on password function

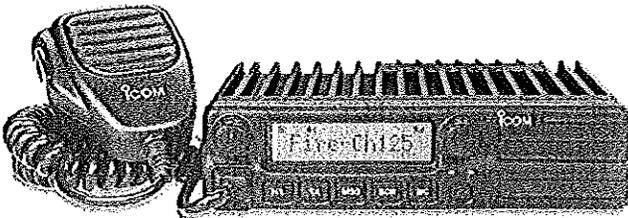
Included with Radio: Hand microphone (HM-148G), mounting bracket kit, DC power cable & owners manual

### MULTIPLE SIGNALING

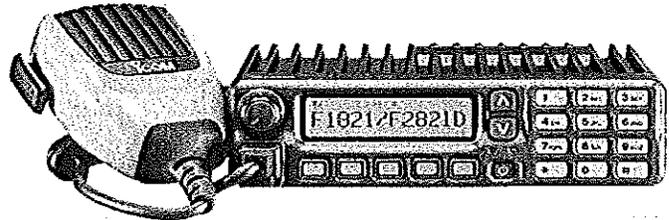
Encode and Decode Built In ...no options necessary  
MDC1200, CTCSS, DCS, 2 Tone, 5 Tone, DTMF, ANI with 2/5 tone & DTMF  
Enhanced MDC available on specific versions

### ENCRYPTION

Simple Inversion:	UT-109 02 32 Codes (analog only)
Rolling Code:	UT-110 02 1020 Codes (analog only)
DES & AES	Digital mode only



F1721



F1821

# F1721 - F2721 SERIES PRICING

Model	Description	Retail	GSA	20+	50+	100+	200+	400+
F1721 03	136-174 MHz, 50W, 256 channels, no keypad (includes HM-148G microphone, mounting bracket kit, DC power cable and owners manual)	\$ 925.00	\$ 580.44	\$ 551.42	\$ 539.81	\$ 516.59	\$ 493.37	\$ 470.15
F2721 05	400-470 MHz, 45W, 256 channels, no keypad (includes HM-148G microphone, mounting bracket kit, DC power cable and owners manual)	\$ 925.00	\$ 580.44	\$ 551.42	\$ 539.81	\$ 516.59	\$ 493.37	\$ 470.15
F2721 06	450-512 MHz, 45W, 256 channels, no keypad (includes HM-148G microphone, mounting bracket kit, DC power cable and owners manual)	\$ 925.00	\$ 580.44	\$ 551.42	\$ 539.81	\$ 516.59	\$ 493.37	\$ 470.15
F2821 25	400-470 MHz, 45W, 256 channels, keypad (includes HM-148G microphone, SP-22 external speaker, mounting bracket kit, DC power cable and owners manual)	\$ 980.00	\$ 300.00	n/a	n/a	n/a	n/a	n/a
F2821 26	450-512 MHz, 45W, 256 channels, keypad (includes HM-148G microphone, SP-22 external speaker, mounting bracket kit, DC power cable and owners manual)	\$ 980.00	\$ 300.00	n/a	n/a	n/a	n/a	n/a

Model	Description	Retail	GSA	2-5	6-10	11-15	16+
F1721 03B	With ASTSS18F1721 power supply	\$ 1,105.00	\$ 693.39	\$ 686.45	\$ 672.59	\$ 658.72	\$ 644.85
F2721 05B	With ASTSS18F1721 power supply	\$ 1,105.00	\$ 693.39	\$ 686.45	\$ 672.59	\$ 658.72	\$ 644.85
F2721 06B	With ASTSS18F1721 power supply	\$ 1,105.00	\$ 693.39	\$ 686.45	\$ 672.59	\$ 658.72	\$ 644.85
F2821 25B	With ASTSS18F1721 power supply	\$ 1,160.00	\$ 412.95	n/a	n/a	n/a	n/a
F2821 26B	With ASTSS18F1721 power supply	\$ 1,160.00	\$ 412.95	n/a	n/a	n/a	n/a

\* Keypad versions discontinued, and on closeout sale.

# F1721 - F2721 EMDC SERIES PRICING

Model	Description	Retail	GSA	20+	50+	100+	200+	400+
F1721 03 EMDC	136-174 MHz, 50W, 256 channels, no keypad (includes HM-148G microphone, mounting bracket kit, DC power cable and owners manual)	\$ 960.00	\$ 602.40	\$ 572.28	\$ 560.23	\$ 536.14	\$ 512.04	\$ 487.94
F2721 05 EMDC	400-470 MHz, 45W, 256 channels, no keypad (includes HM-148G microphone, mounting bracket kit, DC power cable and owners manual)	\$ 960.00	\$ 602.40	\$ 572.28	\$ 560.23	\$ 536.14	\$ 512.04	\$ 487.94
F2721 06 EMDC	450-512 MHz, 45W, 256 channels, no keypad (includes HM-148G microphone, mounting bracket kit, DC power cable and owners manual)	\$ 960.00	\$ 602.40	\$ 572.28	\$ 560.23	\$ 536.14	\$ 512.04	\$ 487.94

Model	Description	Retail	GSA	2-5	6-10	11-15	16+
F1721 03B EMDC	With ASTSS18F1721 power supply	\$ 1,140.00	\$ 715.35	\$ 708.20	\$ 693.89	\$ 679.58	\$ 665.28
F2721 05B EMDC	With ASTSS18F1721 power supply	\$ 1,140.00	\$ 715.35	\$ 708.20	\$ 693.89	\$ 679.58	\$ 665.28
F2721 06B EMDC	With ASTSS18F1721 power supply	\$ 1,140.00	\$ 715.35	\$ 708.20	\$ 693.89	\$ 679.58	\$ 665.28

# F1721 - F2721 SERIES ACCESSORIES

Model	Description	Retail	GSA
<b>Antenna (These items are Open Market)</b>			
ANTENNA 1	136-512 MHz antenna	\$ 20.00	\$ 12.55
ANTENNA 2	5/8 Wave antenna for VHF 144-174 MHz	\$ 38.00	\$ 23.85
ANTENNA 3	450-470 MHz antenna for UHF	\$ 42.00	\$ 26.36
<b>Cables</b>			
OPC-617	ACC cable for external connector	\$ 57.00	\$ 35.77
<b>External Speakers (*These items are Open Market)</b>			
SP-5*	Medium sized square external speaker	\$ 65.00	\$ 40.79
SP-10	Compact medium sized rectangular external speaker - 5W, 4 Ohm	\$ 80.00	\$ 50.20
SP-22*	Small rectangular external speaker - 5W, 4 Ohm	\$ 52.00	\$ 32.63
SP-30	Large external speaker with loud audio	\$ 80.00	\$ 50.20
<b>Internal Modules</b>			
UT-109 02	Simple voice inversion scrambler with up to 32 codes	\$ 105.00	\$ 65.89
UT1-10 02	Rolling code scrambler with up to 1020 codes (255 codes x 4 groups)	\$ 173.00	\$ 108.56
<b>Manuals</b>			
98814877	Owners Manual	\$ 12.00	\$ 7.53
94414901	CD Service Manual	\$ 40.00	\$ 22.09
97714917	Service Manual	\$ 40.00	\$ 22.09
<b>Microphones</b>			
HM-152	Standard microphone	\$ 44.00	\$ 27.61
HM-152T	DTMF microphone	\$ 85.00	\$ 53.34
HM-148	Heavy duty microphone	\$ 82.00	\$ 51.46
HM-148G	Self grounding microphone (supplied with radio)	\$ 100.00	\$ 62.75
SM-25	Desktop microphone for dispatching - equipped w/monitor switch	\$ 110.00	\$ 69.03
<b>Mount (These items are Open Market)</b>			
MOUNT 1	Roof mount	\$ 21.00	\$ 13.18
MOUNT 2	Trunk Gutter mount	\$ 30.00	\$ 18.83
MOUNT 3	Magnetic mount	\$ 40.00	\$ 25.10
<b>Power Supply (This item is Open Market)</b>			
ASTSS18F1721	Power supply for F1721 series	\$ 180.00	\$ 112.95
<b>Programming</b>			
CS-F70/F1700	Programming Software	\$ 75.00	\$ 47.06
CS-F70/F1700 EMDC	EMDC Programming Software	\$ 72.00	\$ 45.18
OPC-1122	Programming cable - PC to radio with RC-232S connector	\$ 99.00	\$ 62.12
OPC-1122U	Programming cable - PC to radio with USB connector	\$ 99.00	\$ 62.12
OPC-1532	Radio to radio cloning cable between mobile and mobile	\$ 42.00	\$ 26.36
OPC-1533	Radio to radio cloning cable between portable and mobile	\$ 88.00	\$ 55.22
<b>Separation Kits</b>			
RMK-2	For front panel detachment use one of the cables below	\$ 130.00	\$ 81.58
OPC-607	9.8ft separation cable	\$ 55.00	\$ 24.30
OPC-608	26.2ft separation cable	\$ 70.00	\$ 43.93
OPC-609	6.2ft separation cable	\$ 52.00	\$ 32.63
OPC-726	16.3ft separation cable (available in November)	\$ 63.00	\$ 39.53
<b>100W/110W Option</b>			
IAS HPUK F1721 03	F1721 mobile with 110W high power kit	\$ 2,105.00	\$ 1,320.89
IAS HPUK F2721 05/06	F2721 mobile with 100W high power kit	\$ 2,105.00	\$ 1,320.89
IAS HPUK F2821 25/26	F2821 mobile with 100W high power kit	\$ 1,950.00	\$ 1,223.63
<b>Installation Charges (Open Market)</b>			
INSTALLLM1234	Installation charge for 1-25 radios	\$ 40.00	\$ 25.10
INSTALLLM1234	Installation charge for 25-49 radios	\$ 40.00	\$ 18.83
INSTALLLM1234	Installation charge for 50+ radios	\$ 40.00	\$ 12.55
<b>Programming Charges (Open Market)</b>			
PROGLM6789	Programming charge for 1-25 radios	\$ 70.00	\$ 43.93
PROGLM6789	Programming charge for 25-49 radios	\$ 70.00	\$ 34.51
PROGLM6789	Programming charge for 50+ radios	\$ 70.00	\$ 28.24
<b>Extended Warranty (Open Market)</b>			
EXTWARR211	1 year extended warranty for a total of 3 years	\$ 25.00	\$ 15.69
EXTWARR212	2 years extended warranty for a total of 4 years	\$ 44.00	\$ 27.61
EXTWARR213	3 years extended warranty for a total of 5 years	\$ 62.00	\$ 38.91

Prices are subject to change, corrections and pending GSA approvals.

GSA Contract #  
GS-35F-0109L

# P25 MOBILES

## F1721D - F2721 SERIES

### VERSIONS

VHF 50W, No Keypad F1721D 01	136-174 MHz
VHF 50W, Keypad F1821D 11	136-174 MHz
UHF 45W, No Keypad F2721D 01/02	400-470 MHz or 450-512 MHz
F2721D 03/04	400-470 MHz or 450-512 MHz, "single upgrade" P25
UHF 45W, Keypad F2821D 21/22	400-470 MHz or 450-512 MHz
F2821D 23	400-470 MHz

### FEATURES

Output Power:	50W (VHF), 45W (UHF)
Channels:	256 with 32 zones
Channel Spacing:	12.5/25 kHz
PLL Spacing:	2.5, 3, 125, 5, 6.25
Display:	LCD full dot matrix, Switchable 1 line 12 character or 2 line 24 characters
Programmable Keys:	5 (simple version) or 7 (10-key version)
Mill Spec:	810 C, D, E
Scan:	Normal, priority & dual priority
Programmable:	PC with CSF70/F1700 software
Other Features:	Detachable front panel Radio stun/kill Tactical group function Impact resistant polycarbonate front panel Interoperability with other manufacturer's P25 digital radios in conventional mode Compatible with both analog FM mode and P25 digital mode Built-in audio compander (analog mode only) 22W pa built-in 4W speaker Power-on password function

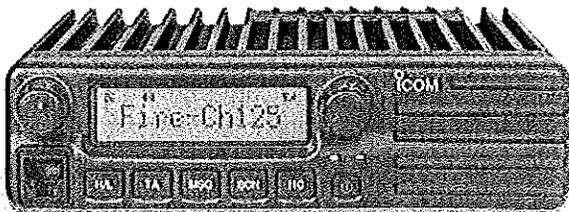
Included with Radio: Hand microphone (HM-148G), mounting bracket kit, DC power cable & owners manual  
 Warranty: 3 Years

### MULTIPLE SIGNALING

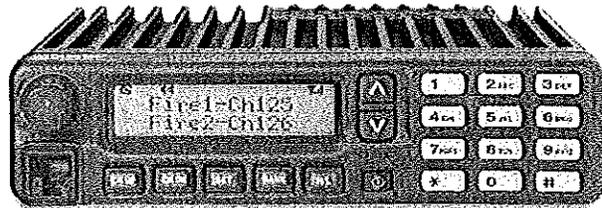
Encode and Decode Built in ....no options necessary  
 CTCSS, DCS, 2 Tone, 5 Tone, MDC1200, DTMF, ANI with 2/5 tone & DTMF

### ENCRYPTION

Simple Inversion: UT-109 02 32 Codes (analog only)  
 Rolling Code: UT-110 02 1020 Codes (analog only)  
 DES & AES: Digital mode only



IC-F1721D



IC-F1821D

# F1721D - F2721D SERIES PRICING

Model	Description	Retail	GSA	20+	50+	100+	200+	400+
F1721D 01	136-174 MHz, 50W full 25, no keypad (Includes HM-148G microphone, mounting bracket kit, DC power cable, and owners manual)	\$ 1,800.00	\$ 1,129.50	\$ 1,073.03	\$ 1,050.44	\$ 1,005.26	\$ 960.08	\$ 914.90
F1821D 11	136-174 MHz, 50W full 25, 10-key (Includes HM-148G microphone, SP-22 external speaker, mounting bracket kit, DC power cable, and owners manual)	\$ 1,900.00	\$ 1,192.25	\$ 1,132.64	\$ 1,108.79	\$ 1,061.10	\$ 1,013.41	\$ 965.72
F2721D 01	400-470 MHz, full P25, 45W, no keypad (Includes HM-148G microphone, mounting bracket kit, DC power cable, and owners manual)	\$ 1,800.00	\$ 1,129.50	\$ 1,073.03	\$ 1,050.44	\$ 1,005.26	\$ 960.08	\$ 914.90
F2721D 02	450-512 MHz, full P25, 45W, no keypad (Includes HM-148G microphone, mounting bracket kit, DC power cable, and owners manual)	\$ 1,800.00	\$ 1,129.50	\$ 1,073.03	\$ 1,050.44	\$ 1,005.26	\$ 960.08	\$ 914.90
F2721D 03	400-470 MHz, "single upgrade" P25, 45W, no keypad (Includes HM-148G microphone, mounting bracket kit, DC power cable, and owners manual)	\$ 1,290.00	\$ 809.48	\$ 769.00	\$ 752.81	\$ 720.43	\$ 688.05	\$ 655.67
F2721D 04	450-512 MHz, "single upgrade" P25, 45W, no keypad (Includes HM-148G microphone, mounting bracket kit, DC power cable, and owners manual)	\$ 1,290.00	\$ 809.48	\$ 769.00	\$ 752.81	\$ 720.43	\$ 688.05	\$ 655.67
F2821D 21	400-470 MHz, full P25, 45W, 10-key (Includes HM-148G microphone, SP-22 external speaker, mounting bracket kit, DC power cable, and owners manual)	\$ 1,900.00	\$ 1,192.25	\$ 1,132.64	\$ 1,108.79	\$ 1,061.10	\$ 1,013.41	\$ 965.72
F2821D 22	450-512 MHz, full P25, 45W, 10-key (Includes HM-148G microphone, SP-22 external speaker, mounting bracket kit, DC power cable, and owners manual)	\$ 1,900.00	\$ 1,192.25	\$ 1,132.64	\$ 1,108.79	\$ 1,061.10	\$ 1,013.41	\$ 965.72
F2821D 23	400-470 MHz, "single upgrade: P25, 45W, 10-key (Includes HM-148G microphone, SP-22 external speaker, mounting bracket kit, DC power cable, and owners manual)	\$ 1,390.00	\$ 872.23	\$ 828.61	\$ 811.17	\$ 776.28	\$ 741.39	\$ 706.50

Model	Description	Retail	GSA	2-5	6-10	11-15	16+
F1721D 01B	With ASTSS18F1721 power supply	\$ 1,980.00	\$ 1,242.45	\$ 1,230.03	\$ 1,205.18	\$ 1,180.33	\$ 1,155.48
F1821D 11B	With ASTSS18F1721 power supply	\$ 2,080.00	\$ 1,305.20	\$ 1,292.15	\$ 1,266.04	\$ 1,239.94	\$ 1,213.84
F2721D 01B	With ASTSS18F1721 power supply	\$ 1,980.00	\$ 1,242.45	\$ 1,230.03	\$ 1,205.18	\$ 1,180.33	\$ 1,155.48
F2721D 02B	With ASTSS18F1721 power supply	\$ 1,980.00	\$ 1,242.45	\$ 1,230.03	\$ 1,205.18	\$ 1,180.33	\$ 1,155.48
F2821D 03B	With ASTSS18F1721 power supply	\$ 1,470.00	\$ 922.43	\$ 913.20	\$ 894.75	\$ 876.30	\$ 857.86
F2821D 04B	With ASTSS18F1721 power supply	\$ 1,470.00	\$ 922.43	\$ 913.20	\$ 894.75	\$ 876.30	\$ 857.86
F2821D 21B	With ASTSS18F1721 power supply	\$ 2,080.00	\$ 1,305.20	\$ 1,292.15	\$ 1,266.04	\$ 1,239.94	\$ 1,213.84
F2821D 22B	With ASTSS18F1721 power supply	\$ 2,080.00	\$ 1,305.20	\$ 1,292.15	\$ 1,266.04	\$ 1,239.94	\$ 1,213.84
F2821D 23B	With ASTSS18F1721 power supply	\$ 1,570.00	\$ 985.18	\$ 975.32	\$ 955.62	\$ 935.92	\$ 916.21

Prices are subject to change, corrections and pending GSA approval.

GSA Contract #: GS-35F-0109L

# F1721D - F2721D SERIES ACCESSORIES

Model	Description	Retail	GSA
<b>Antenna (These items are Open Market)</b>			
ANTENNA 1	136-512 MHz antenna	\$ 20.00	\$ 12.55
ANTENNA 2	5/8 Wave antenna for VHF 144-174 MHz	\$ 38.00	\$ 23.85
ANTENNA 3	450-470 MHz antenna for UHF	\$ 42.00	\$ 26.36
<b>Cables</b>			
OPC617	ACC cable for external connector	\$ 57.00	\$ 35.77
<b>External Speakers (*These items are Open Market)</b>			
SP-5*	Medium sized square external speaker	\$ 65.00	\$ 40.79
SP-10	Compact medium sized rectangular external speaker - 5W, 4 Ohm	\$ 80.00	\$ 50.20
SP-22*	Small rectangular external speaker - 5W, 4 Ohm	\$ 52.00	\$ 32.63
SP-30	Large external speaker with loud audio	\$ 80.00	\$ 50.20
<b>Internal Modules</b>			
UT-109 02	Simple voice inversion scrambler with up to 32 codes	\$ 105.00	\$ 65.89
UT1-10 02	Rolling code scrambler with up to 1020 codes (255 codes x 4 groups)	\$ 173.00	\$ 108.56
<b>Manuals</b>			
98814877	Owners Manual	\$ 12.00	\$ 7.53
94414901	CD Service Manual	\$ 40.00	\$ 22.09
97714917	Service Manual	\$ 40.00	\$ 22.09
<b>Microphones</b>			
HM-152	Standard microphone	\$ 44.00	\$ 27.61
HM-152T	DTMF microphone	\$ 85.00	\$ 53.34
HM-148	Heavy duty microphone	\$ 82.00	\$ 51.46
HM-148G	Self grounding microphone (supplied with radio)	\$ 100.00	\$ 62.75
SM-25	Desktop microphone for dispatching - equipped w/monitor switch	\$ 110.00	\$ 69.03
<b>Mount (These items are Open Market)</b>			
MOUNT 1	Roof mount	\$ 21.00	\$ 13.18
MOUNT 2	Trunk Gutter mount	\$ 30.00	\$ 18.83
MOUNT 3	Magnetic mount	\$ 40.00	\$ 25.10
<b>Power Supply (This item is Open Market)</b>			
ASTSS18F1721	Power supply for F1721 series	\$ 180.00	\$ 112.95
<b>Programming</b>			
CS-F70/F1700	Programming Software	\$ 75.00	\$ 47.06
OPC-1122	Programming cable - PC to radio with RC-232S connector	\$ 99.00	\$ 62.12
OPC-1122U	Programming cable - PC to radio with USB connector	\$ 99.00	\$ 62.12
OPC-1532	Radio to radio cloning cable between mobile and mobile	\$ 42.00	\$ 26.36
OPC-1533	Radio to radio cloning cable between portable and mobile	\$ 88.00	\$ 55.22
<b>Separation Kits</b>			
RMK-2	For front panel detachment use one of the cables below	\$ 130.00	\$ 81.58
OPC-607	9.8ft separation cable	\$ 55.00	\$ 24.30
OPC-608	26.2ft separation cable	\$ 70.00	\$ 43.93
OPC-609	6.2ft separation cable	\$ 52.00	\$ 32.63
OPC-726	16.3ft separation cable (available in November)	\$ 63.00	\$ 39.53
<b>100W/110W Option</b>			
IAS HPUK F1721D 01	F1721D mobile with 110W high power kit	\$ 2,980.00	\$ 1,869.95
IAS HPUK F1821D 11	F1821D mobile with 110W high power kit	\$ 3,080.00	\$ 1,932.70
IAS HPUK F2721D 01/02	F2721D mobile with 100W high power kit	\$ 2,980.00	\$ 1,869.95
IAS HPUK F2821D 21/22	F2821D mobile with 100W high power kit	\$ 3,080.00	\$ 1,932.70
<b>Installation Charges (Open Market)</b>			
INSTALLLM1234	Installation charge for 1-25 radios	\$ 40.00	\$ 25.10
INSTALLLM1234	Installation charge for 25-49 radios	\$ 40.00	\$ 18.83
INSTALLLM1234	Installation charge for 50+ radios	\$ 40.00	\$ 12.55
<b>Programming Charges (Open Market)</b>			
PROGLM6789	Programming charge for 1-25 radios	\$ 70.00	\$ 43.93
PROGLM6789	Programming charge for 25-49 radios	\$ 70.00	\$ 34.51
PROGLM6789	Programming charge for 50+ radios	\$ 70.00	\$ 28.24
<b>Extended Warranty (Open Market)</b>			
EXTWARP25M1	1 year extended warranty for a total of 4 years	\$ 65.00	\$ 40.79
EXTWARP25M2	2 years extended warranty for a total of 5 years	\$ 93.00	\$ 58.36
EXTWARP25M3	3 years extended warranty for a total of 6 years	\$ 130.00	\$ 81.58

Prices are subject to change, corrections and pending GSA approvals.

GSA Contract # GS-35F-0109L

# P25 TRUNKING MOBILES

## F9511 - F9521 SERIES

### VERSIONS

F9511S 01	136-174 MHz, 50W, no keypad
F9511T 05	136-174 MHz, 50W, with full keypad
F9511HT 01	136-174 MHz, 110W, with full keypad
F9521S 01*	400-470 MHz, 50W, no keypad
F9521T 05*	400-470 MHz, 50W, with full keypad

\* Special Order Only. Please contact Icom America for lead time.

### FEATURES

Output Power:	VHF: 50W or 110W (depends on version) UHF: 50W
Channels:	512 channels / 128 zones
Channel Spacing:	15/30 kHz (analog), 12.5 kHz (digital)
PLL Channel Spacing:	2.5 / 3.125 kHz
Display:	Dot matrix display - 12 characters by 2 lines. LCD backlight is standard.
Mil Spec:	810 C, D, E & F
Scan:	Normal, Priority & Dual Priority
Programmable:	PC with CS-F9010/F9510 software
General Features:	Detachable controller (front panel) IP54 dust-protection and splash resistance (controller only) Tactical group function Built-in 22W BTL audio amplifier Radio stun/kill function (digital mode only) D-SUB 25-pin ACC connector for external devices
Compliant Standards:	TIA/EIA TSB 102, CAAB, Digital C4FM Transceiver Performance Recommendations NTIA VHF specification compliant
Included with Radio:	Hand microphone (HM-148G), mounting bracket kit, microphone hanger, DC power cable & owners manual (external speaker (SP-22) supplied with F9511T but not with F9511HT)
Warranty:	3 Years

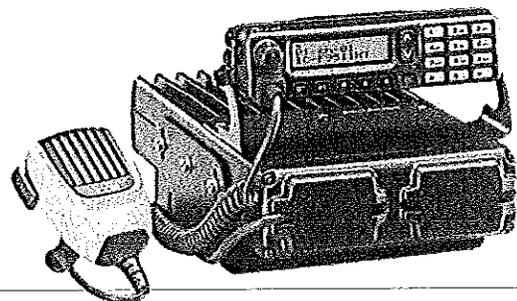
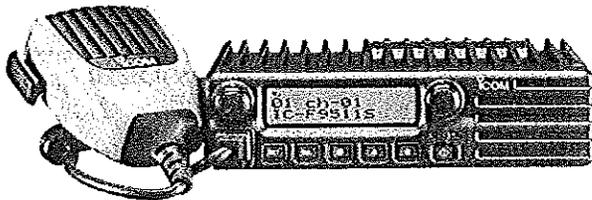
### MULTIPLE SIGNALING

Built-in CTCSS and DTCS, 2-tone encoder and decoder, and MDC1200 compatible (analog mode only)

### ENCRYPTION

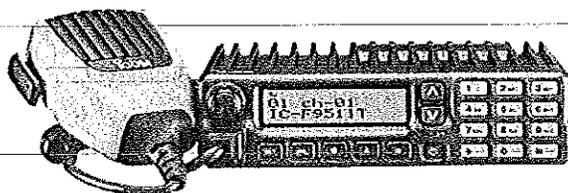
AES & DES:	UT-125
DES :	UT-128

### F9511S



F9511HT

### F9511T



# F9511 - F9521 SERIES PRICING

Model	Description	Retail	GSA	20+	50+	100+	200+	400+
F9511S 01	136-174 MHz, 50W P25 Trunking mobile, no keypad (includes HM-148G microphone, mounting bracket kit, microphone hanger, DC power cable & owners manual)	\$ 3,010.00	\$ 1,888.78	\$ 1,794.34	\$ 1,756.56	\$ 1,681.01	\$ 1,605.46	\$ 1,529.91
F9511T 05	136-174 MHz, 50W P25 trunking mobile, full keypad (includes HM-148G microphone, SP-22 external speaker, mounting bracket kit, microphone hanger, DC power cable & owners manual)	\$ 3,360.00	\$ 2,108.40	\$ 2,002.98	\$ 1,960.81	\$ 1,876.48	\$ 1,792.14	\$ 1,707.80
F9511HT 01	136-174 MHz, 110W P25 trunking mobile with keypad (Includes HM-148G microphone, mounting bracket kit, microphone hanger, DC power cable & owners manual)	\$ 3,700.00	\$ 2,321.75	\$ 2,205.66	\$ 2,159.23	\$ 2,066.36	\$ 1,973.49	\$ 1,880.62
F9521S 01*	400-470 MHz, 50W P25 Trunking mobile, no keypad (includes HM-148G microphone, mounting bracket kit, microphone hanger, DC power cable & owners manual)	\$ 3,010.00	\$ 1,888.78	\$ 1,794.34	\$ 1,756.56	\$ 1,681.01	\$ 1,605.46	\$ 1,529.91
F9521T 05*	400-470 MHz, 50W P25 trunking mobile, full keypad (includes HM-148G microphone, SP-22 external speaker, mounting bracket kit, microphone hanger, DC power cable & owners manual)	\$ 3,360.00	\$ 2,108.40	\$ 2,002.98	\$ 1,960.81	\$ 1,876.48	\$ 1,792.14	\$ 1,707.80

Model	Description	Retail	GSA	2-5	6-10	11-15	16+
F9511S 01B	With ICT CS120-20A/ICO6 power supply	\$ 3,190.00	\$ 2,001.73	\$ 1,981.71	\$ 1,941.67	\$ 1,901.64	\$ 1,861.60
F9511T 05B	With ICT CS120-20A/ICO6 power supply	\$ 3,540.00	\$ 2,221.35	\$ 2,199.14	\$ 2,154.71	\$ 2,110.28	\$ 2,065.86
F9521S 01B*	With ICT CS120-20A/ICO6 power supply	\$ 3,190.00	\$ 2,001.73	\$ 1,981.71	\$ 1,941.67	\$ 1,901.64	\$ 1,861.60
F9521T 05B*	With ICT CS120-20A/ICO6 power supply	\$ 3,540.00	\$ 2,221.35	\$ 2,199.14	\$ 2,154.71	\$ 2,110.28	\$ 2,065.86

\* Special Order Only. Please contact Icom America for lead time.

# F9511 - F9521 SERIES ACCESSORIES

Model	Description	Retail	GSA
<b>Antenna (These items are Open Market)</b>			
ANTENNA 1	136-512 MHz antenna	\$ 20.00	\$ 12.55
ANTENNA 2	5/8 Wave antenna for VHF 144-174 MHz	\$ 38.00	\$ 23.85
ANTENNA 3	450-470 MHz antenna for UHF	\$ 42.00	\$ 26.36
<b>Cables</b>			
OPC-617	ACC cable for external connection	\$ 57.00	\$ 35.77
<b>Dual Head Option</b>			
RMK-4 01	Dual head separation kit for F9511HT ONLY. Requires a separation cable listed below.	\$ 860.00	\$ 539.65
CS-RMK4	Software to program the RMK4 dual head	\$ 80.00	\$ 50.20
<b>External Speakers (*These items are Open Market)</b>			
SP-5*	Medium sized square external speaker	\$ 65.00	\$ 40.79
SP-22*	Small rectangular external speaker (standard with F9511T version; not included with F9511HT)	\$ 52.00	\$ 32.63
SP-30	Large external speaker with loud audio	\$ 80.00	\$ 50.20
<b>Encryption</b>			
UT-125 01	AES and DES encryption unit	\$ 789.00	\$ 495.10
UT-128	DES encryption board - special order only minimum order of 50 units.	\$ 420.00	\$ 263.55
<b>Manuals</b>			
98815488	Owners Manual (F9511)	\$ 12.00	\$ 7.53
98815508	Owners Manual (F9511HT)	\$ 12.00	\$ 7.53
97715423	Service Manual (F9511)	\$ 40.00	\$ 22.09
94415436	CD Service Manual (F9511)	\$ 40.00	\$ 22.09
97715433	Service Manual (F9511HT)	\$ 40.00	\$ 22.09
94415507	CD Service Manual (F9511HT)	\$ 40.00	\$ 22.09
<b>Microphones</b>			
HM-152	Hand microphone	\$ 44.00	\$ 27.61
HM-152T	DTMF microphone	\$ 85.00	\$ 53.34
HM-148G	Self-grounding heavy duty microphone (same as supplied)	\$ 100.00	\$ 62.75
HM-148T	Heavy duty DTMF microphone	\$ 156.00	\$ 97.89
SM-25	Desktop microphone equipped with monitor switch	\$ 110.00	\$ 69.03
<b>Mounts (These items are Open Market)</b>			
MOUNT 1	Roof mount for antenna	\$ 21.00	\$ 13.18
MOUNT 2	Trunk gutter mount for antenna	\$ 30.00	\$ 18.83
MOUNT 3	Magnetic mount for antenna	\$ 40.00	\$ 25.10
<b>Programming Software and Cable</b>			
CS-F9010/F9510	Radio Programming software	\$ 75.00	\$ 47.06
OPC-1122	Programming cable - PC to radio (serial)	\$ 99.00	\$ 62.12
OPC-1122U	Programming cable - PC to radio with USB connector	\$ 99.00	\$ 62.12
OPC-1532	Radio to radio cloning cable between mobile and mobile	\$ 42.00	\$ 26.36
OPC-1534	Key loader cable	\$ 225.00	\$ 141.19
OPC-1871	Radio to radio cloning cable between portable and mobile	\$ 110.00	\$ 69.03
<b>Separation Kit</b>			
RMK-2	F9511S/T separation kit (for front panel detachment - separation cable not included)	\$ 130.00	\$ 81.58
OPC-607	9.8 ft separation cable	\$ 55.00	\$ 24.30
OPC-608	26.2 ft separation cable	\$ 70.00	\$ 43.93
OPC-609	6.2 ft separation cable	\$ 52.00	\$ 32.63
OPC-726	16.4 ft separation cable (supplied with F9511HT)	\$ 63.00	\$ 39.53
<b>Installation Charges (Open Market)</b>			
INSTALLM6789	Installation charge for 1-25 radios	\$ 70.00	\$ 43.93
INSTALLM6789	Installation charger for 25-49 radios	\$ 70.00	\$ 37.65
INSTALLM6789	Installation charge for 50+ radios	\$ 70.00	\$ 31.38
<b>Programming Charges (Open Market)</b>			
PROGLM6789	Programming charge for 1-25 radios	\$ 70.00	\$ 43.93
PROGLM6789	Programming charger for 25-49 radios	\$ 70.00	\$ 34.51
PROGLM6789	Programming charge for 50+ radios	\$ 70.00	\$ 28.24
<b>Extended Warranty (Open Market)</b>			
EXTWARP25M1	1 year extended warranty for a total of 4 years	\$ 65.00	\$ 40.79
EXTWARP25M2	2 years extended warranty for a total of 5 years	\$ 93.00	\$ 58.36
EXTWARP25M3	3 years extended warranty for a total of 6 years	\$ 130.00	\$ 81.58

Prices are subject to change, corrections, and pending GSA approvals.

GSA Contract #: GS-35F-0109L

# TRUNKING MOBILES

## F621TR

### VERSIONS

UHF 45W, 250 Channels  
 F621 72      440-490 MHz

### FEATURES

Output Power: 45W  
 Channels: 250 channels with 15 banks  
 Channel Spacing: 125kHz/25kHz  
 Display: 10 character alphanumeric LCD  
 Programmable Keys: 5 programmable buttons  
 Mill Spec: STD-810 C,D,E For shock and vibration  
 Scan: Normal/priority scan  
 PC Programmable: With CSF620TR software  
 Other Features: Independent AF volume knob  
 Invertible front panel for flexible setup  
 Microphone hanger function  
 Conventional, LTR & PassPort are all standard equipment  
 Power on password and 'stun' functions  
 DTMF Redial & DTMF Autodial  
 Complementary operation with F4TR  
 Large, alphanumeric display and backlit keys  
 Flash CPU advantage for future upgrades  
 Fractional-N PLL provides faster lock up times  
 Rugged construction, one piece, die-cast aluminum frame

Included with Radio: Microphone (HM-152), mounting bracket, power cable & owners manual

### TRUNKING FEATURES

All basic LTR® features  
 LTR® Trunking radio - PassPort ready  
 Programmable up to 20 systems  
 Up to 250 talk groups per system

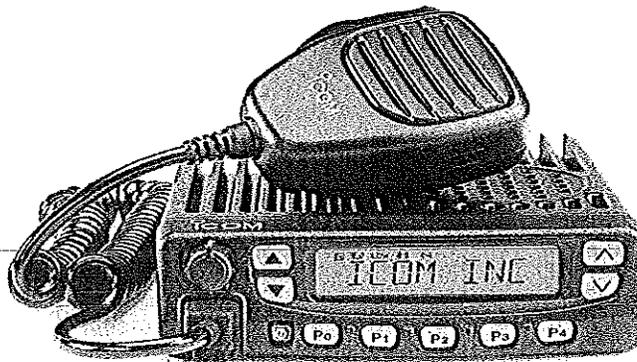
### PassPort® FEATURES

PassPort® ID's: 60,000 useable ID's, individual mobile ID's and roamer ID's  
 Other Features: Wide area dispatch, ESN check, transmission Trunking, auto registration and call forwarding  
 \*\* For PassPort 2.8 or 4.2, see the F5061/F6061 mobiles

### SIGNALING

CTCSS, DTCS encode/decode standard  
 Built In DTMF encode/decode

Model	Description	Retail	GSA	25+	50+	75+	100+	150+
F621 72	440-490 MHz Trunking mobile (includes HM152 hand mic, mounting bracket kit, DC power cable, fuses, key assign stickers and owners manual)	\$ 435.00	\$ 272.96	\$ 262.04	\$ 253.86	\$ 245.67	\$ 240.21	\$ 234.75
Model	Description	Retail	GSA	2-5	6-10	11-15	16+	
F621 72B	Radio installed in ASTSS181C base station power supply	\$ 615.00	\$ 385.91	\$ 382.05	\$ 374.34	\$ 366.62	\$ 358.90	



# F621TR ACCESSORIES

Model	Description	Retail	GSA
<b>Antennas (These items are Open Market)</b>			
ANTENNA 1	136-512MHz Antenna	\$ 20.00	\$ 12.55
ANTENNA 3	450-470 MHz Antenna for UHF	\$ 42.00	\$ 26.36
<b>External Speaker (*These items are Open Market)</b>			
SP-5*	Medium sized square external speaker	\$ 65.00	\$ 40.79
SP-10	Compact medium sized rectangular external speaker - 5W, 4 Ohm	\$ 80.00	\$ 50.20
SP-22*	Small rectangular external speaker - 5W, 4 Ohm	\$ 52.00	\$ 32.63
SP-30	Large external speaker with loud audio	\$ 80.00	\$ 50.20
<b>Manuals</b>			
98814193	Owners Manual	\$ 12.00	\$ 7.53
97714190	Service Manual	\$ 40.00	\$ 22.09
94414237	CD Service Manual	\$ 40.00	\$ 22.09
<b>Microphones</b>			
HM-148	Heavy duty microphone	\$ 82.00	\$ 51.46
HM-148 UPGRADE	Pull HM152 and substitute with HM148	\$ 38.00	\$ 23.85
HM-148G	Heavy duty self grounding microphone	\$ 100.00	\$ 62.75
HM-148T	Heavy duty DTMF microphone	\$ 156.00	\$ 97.89
HM-152	Standard microphone	\$ 44.00	\$ 27.61
HM-152T	DTMF microphone	\$ 85.00	\$ 53.34
SM-25	Base Microphone for mobiles	\$ 110.00	\$ 69.03
<b>Mounts (These items are Open Market)</b>			
MOUNT 1	Roof Mount	\$ 21.00	\$ 13.18
MOUNT 2	Trunk Gutter Mount	\$ 30.00	\$ 18.83
MOUNT 3	Magnetic Mount	\$ 40.00	\$ 25.10
<b>Programming</b>			
CS-F620TR	Windows Programming Software	\$ 72.00	\$ 45.18
OPC-1122	Programming cloning cable for PC to Radio with RC232S connector	\$ 99.00	\$ 62.12
OPC-1122U	Programming cloning cable for PC to Radio with USB connector	\$ 99.00	\$ 62.12
<b>Installation Charges (Open Market)</b>			
INSTALLLM1234	Installation charge for 1-25 radios	\$ 40.00	\$ 25.10
INSTALLLM1234	Installation charger for 25-49 radios	\$ 40.00	\$ 18.83
INSTALLLM1234	Installation charge for 50+ radios	\$ 40.00	\$ 12.55
<b>Programming Charges (Open Market)</b>			
PROGLM1234	Programming charge for 1-25 radios	\$ 42.00	\$ 26.36
PROGLM1234	Programming charger for 25-49 radios	\$ 42.00	\$ 15.69
PROGLM1234	Programming charge for 50+ radios	\$ 42.00	\$ 10.67
<b>Extended Warranty (Open Market)</b>			
EXTWARR211	1 year extended warranty for a total of 3 years	\$ 25.00	\$ 15.69
EXTWARR212	2 years extended warranty for a total of 4 years	\$ 44.00	\$ 27.61
EXTWARR213	3 years extended warranty for a total of 5 years	\$ 62.00	\$ 38.91

Prices are subject to change, corrections and pending GSA approvals.

GSA Contract #: GS-35F-0109L

# Icom America Systems

## Systems for People Who Make Smart Choices

Icom America Systems, a business enterprise of the Land Mobile Division of Icom America, Inc., providing complete systems package for today's communication needs, assembling high quality "one-stop systems" for installation at customer's locations around the globe. The Systems department has technical specialists who are available upon request to perform technical training, on-site consulting and/or field installations. Our large service facility and full time trained service technicians stand ready to assist.

### ICOM America Systems Onsite Offerings

Model	Description	Retail	GSA
<b>Onsite Service/Installation</b>			
IAS Onsite Tech Daily Rate	System Optimization -Installation/Service	\$ 2,083.00	\$ 1,307.00
IAS Onsite Tech Travel Day	Travel Day Fee Per Day To Location And From Location	\$ 834.00	\$ 523.00
IAS Onsite Travel Expenses	Travel Expenses Airfare/Hotel Etc. (Please Inquire To IAS For Pricing)	TBD	TBD
<b>Onsite Consulting</b>			
IAS Consulting Daily Rate	Consulting/Training Services	\$ 2,083.00	\$ 1,307.00
IAS Consulting Travel Day	Travel Day Fee Per Day To Location And From Location	\$ 834.00	\$ 523.00
IAS Consulting Travel Expenses	Travel Expenses Airfare/Hotel Etc. (Please Inquire To IAS For Pricing)	TBD	TBD

*\*Please note that for ICOM America Systems to perform any of the above services, an official quote will need to be issued by ICOM to you the customer. Inquire to IAS for further information.*

*\* All scheduling of the above services will be at the discretion of ICOM America Systems.*

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# 2-50 WATTS CY REPEATERS

## VERSIONS

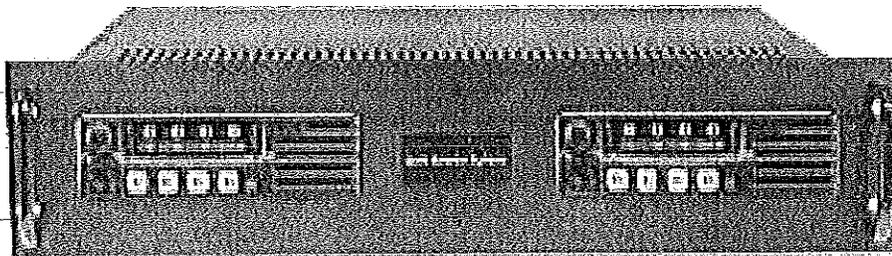
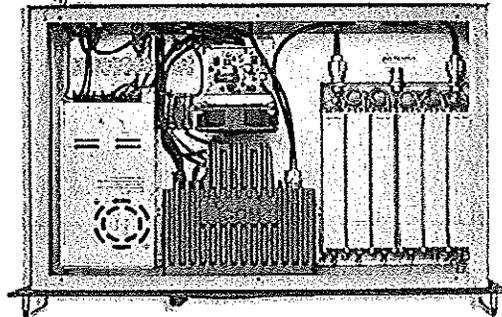
CY F121S DP	VHF Repeater 50W with duplexer and power supply
CY F121S P	VHF Repeater 50W with power supply
CY F221S DP	UHF Repeater 45W with duplexer and power supply
CY F221S P	UHF Repeater 45W with power supply

## FEATURES

50W VHF & 45W UHF  
Built in repeater controller  
PTT control of transmitter  
Transmitter hang ON time delay from 0 to 7.5 seconds  
Internal and external cooling fans provide 122 CFM airflow  
Busy lockout and repeater lockout  
Power on password  
100% duty cycle @ 20W, 50% duty cycle @ 50/45W  
Accessory Connector (ACC) connects to remote controllers  
8 Channels Maximum  
Built in internal power supply - 110/220 V AC operation  
Battery back up auto switch over and battery charging built-in

## SIGNALING

1 CTCSS, DTCS, tone signals per channel  
Built-in 2-tone, 5-tone, DTMF encoder & decoder



Prices are subject to change,  
corrections and pending  
GSA approval.

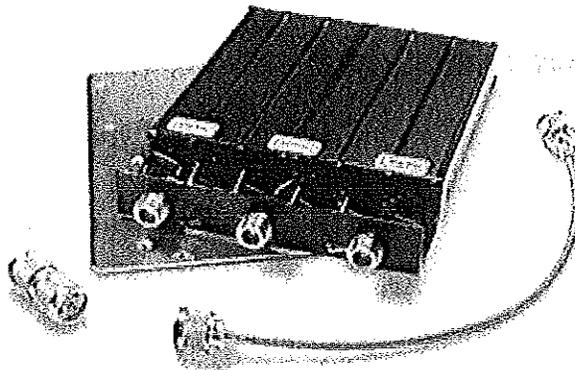
GSA Contract #  
GS-35F-0109L

# CY REPEATER SERIES PRICING

Model	Description	Retail	GSA
CY F121S P	136-174 MHz, 50W VHF repeater with power supply	\$ 1,652.83	\$ 1,037.15
CY F121S DP	136-174 MHz, 50W VHF repeater with duplexer and power supply	\$ 2,165.00	\$ 1,358.54
CY F221S P	440-490 MHz, 45W VHF repeater with power supply	\$ 1,652.83	\$ 1,037.15
CY F221S DP	440-490 MHz, 45W VHF repeater with duplexer and power supply	\$ 2,165.00	\$ 1,358.54

# CY REPEATER SERIES ACCESSORIES

Model	Description	Retail	GSA
<b>Indoor Cabinets (These items are Open Market)</b>			
ASAP INDOOR CABINET 30	30" indoor cabinet	\$ 850.00	\$ 533.38
ASAP INDOOR CABINET 46	46" indoor cabinet	\$ 1,249.00	\$ 783.75
ASAP INDOOR CABINET 60	60" indoor cabinet	\$ 2,155.00	\$ 1,352.26
<b>Manuals</b>			
98814731	F121S/F221S Owners Manual	\$ 12.00	\$ 7.53
97714680	F121S Service Manual	\$ 40.00	\$ 22.09
97714679	F221S Service Manual	\$ 40.00	\$ 22.09
94414481	F121S/F221S CD Service Manual	\$ 40.00	\$ 22.09
<b>Racks (These items are Open Market)</b>			
HMDRRTT1928	28" rack (includes assembly and hardware)	\$ 242.00	\$ 151.86
HMDDNRR42HDW	42" rack (includes assembly and hardware)	\$ 447.00	\$ 280.49
HMDDNRR63HDW	63" rack (includes assembly and hardware)	\$ 499.00	\$ 313.12
HMDDNRR70HDW	70" rack (includes assembly and hardware)	\$ 507.00	\$ 318.14
<b>Programming software and cable</b>			
CS-F100S	Programming software	\$ 75.00	\$ 47.06
OPC-1122	Programming cable for PC to Radio with RC232S connector	\$ 99.00	\$ 62.12
OPC-1122U	Programming cable for PC to Radio with USB connector	\$ 99.00	\$ 62.12
<b>Programming Charges (These items are Open Market)</b>			
PROGRAMMING IAS	Programming/Tuning fee per unit	\$ 50.00	\$ 31.38
SERVICE/SALES BUILD-UP IAS	Installation fee per unit (includes programming and tuning)	\$ 80.00	\$ 50.20



IAS DUP KIT

Prices are subject to change, corrections and pending GSA approval.

GSA Contract # GS-35F-0109L

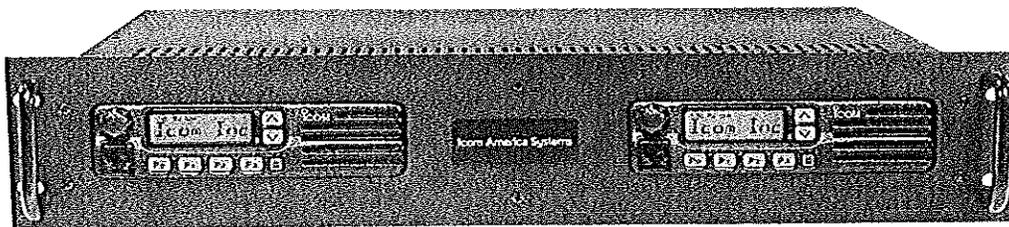
# X-BAND REPEATERS CROSS BAND VHF & UHF

## VERSIONS

IAS X-BAND 50	Cross Band Repeater with Analog Interoperability VHF-UHF
IAS X-BAND 50 AIR V	Cross Band Repeater with Analog Interoperability Airband - VHF FM
IAS X-BAND 50 AIR U	Cross Band Repeater with Analog Interoperability Airband - UHF FM

## FEATURES

- Full UHF and VHF interoperability
- 50W VHF; 45W UHF
- 128 Memory channels with 8 memory banks per radio
- 8 character alphanumeric display/ easy to read
- Configured to auto switch from AC to DC
- Local controlled operation; can be used as a dual base unit
- Programmable actions when a matched tone is received:
  - Bell icon indication ON/OFF/blink
  - Answer back calls
  - Beep sounds
  - Scan start/stop
  - Auto transmission
  - Stun/kill functions (prevents use of a lost or stolen)
- 10 scanning lists and normal/priority scan
- Power ON password



# X-BAND REPEATER SERIES PRICING

Model	Description	Retail	GSA
IAS X-BAND 50	Cross Band Repeater with Analog Interoperability VHF-UHF	\$ 2,300.00	\$ 1,443.25
IAS X-BAND 50 AIR V	Cross Band Repeater with Analog Interoperability AM - VHF FM	\$ 3,100.00	\$ 1,945.25
IAS X-BAND 50 AIR U	Cross Band Repeater with Analog Interoperability AM - UHF FM	\$ 3,100.00	\$ 1,945.25

# X-BAND REPEATER ACCESSORIES

Model	Description	Retail	GSA
<b>Indoor Cabinets (These Items are Open Market)</b>			
ASAP INDOOR CABINET 30	30" indoor cabinet	\$ 850.00	\$ 533.38
ASAP INDOOR CABINET 46	46" indoor cabinet	\$ 1,249.00	\$ 783.75
ASAP INDOOR CABINET 60	60" indoor cabinet	\$ 2,155.00	\$ 1,352.26
<b>Manuals</b>			
98814731	F121S/F221S Owners Manual	\$ 12.00	\$ 7.53
97714680	F121S Service Manual	\$ 40.00	\$ 22.09
97714679	F221S Service Manual	\$ 40.00	\$ 22.09
94414481	F121S/F221S CD Service Manual	\$ 40.00	\$ 22.09
<b>Racks (These Items are Open Market)</b>			
HMDRRT1928	28" rack (includes assembly and hardware)	\$ 242.00	\$ 151.86
HMDDNRR42HDW	42" rack (includes assembly and hardware)	\$ 447.00	\$ 280.49
HMDDNRR63HDW	63" rack (includes assembly and hardware)	\$ 499.00	\$ 313.12
HMDDNRR70HDW	70" rack (includes assembly and hardware)	\$ 507.00	\$ 318.14
<b>Programming software and cable</b>			
CS-F100S	Programming software	\$ 75.00	\$ 47.06
OPC-1122	Programming cable for PC to Radio with RC232S connector	\$ 99.00	\$ 62.12
OPC-1122U	Programming cable for PC to Radio with USB connector	\$ 99.00	\$ 62.12
<b>Programming Charges (These Items are Open Market)</b>			
PROGRAMMING IAS	Programming/Tuning fee per unit	\$ 50.00	\$ 31.38
SERVICE/SALES BUILD-UP IAS	Installation fee per unit (includes programming and tuning)	\$ 80.00	\$ 50.20

# IAS VOTING RECEIVER

## VERSIONS

IAS VOTING RX VHF

VHF Voting Receiver 150-174 MHz Center Frequency

IAS VOTING RX UHF

UHF Voting Receiver 460MHz Center Frequency

## FEATURES

Three-cavity band pass filter improves receive selectivity and intermod performance

Filter RF Specifications: 150-160, 160-170 VHF 450-470 UHF

Output impedance 600 ohms balanced

Audio frequency response 50 to 20kHz +/-2Hz

Pilot tone frequency 1950Hz or 2175Hz, switch selectable

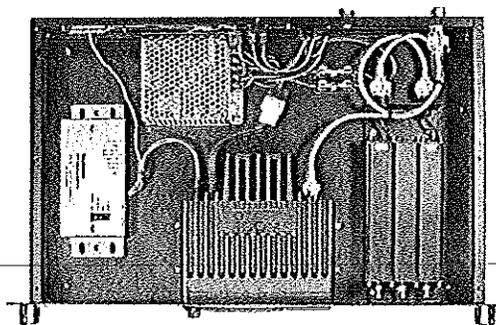
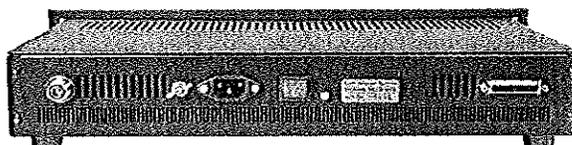
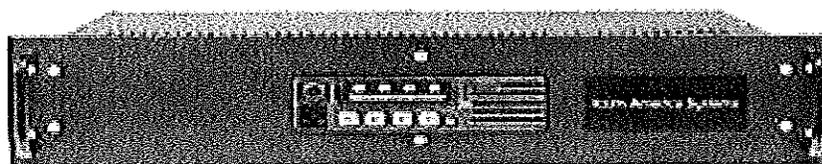
Pilot tone stability +/-2Hz

Maximum 8 Channels

Channel spacing 12.5/25kHz (Narrow/Wide)

Receiver system is a double-conversion superheteodyne system

Configured to auto switch from AC to DC



## ENHANCE PORTABLE AND MOBILE TALK-IN PERFORMANCE

Improves your wide-area repeater/base operation

Prices are subject to change, correction and pending GSA approval.

GSA Contract #  
GS-35F-0109L

# IAS VOTING RECEIVER PRICING

Model	Description	Retail	GSA
IAS VOTING RX VHF	VHF Voting Receiver 165MHz Center Frequency	\$ 2,490.00	\$ 1,492.26
IAS VOTING RX UHF	UHF Voting Receiver 460MHz Center Frequency	\$ 2,525.00	\$ 1,492.26

# IAS VOTING RECEIVER ACCESSORIES

Model	Description	Retail	GSA
<b>Indoor Cabinets (These Items are Open Market)</b>			
ASAP INDOOR CABINET 30	30" indoor cabinet	\$ 850.00	\$ 533.38
ASAP INDOOR CABINET 46	46" indoor cabinet	\$ 1,249.00	\$ 783.75
ASAP INDOOR CABINET 60	60" indoor cabinet	\$ 2,155.00	\$ 1,352.26
<b>Manuals</b>			
98814731	F121S/F221S Owners Manual	\$ 12.00	\$ 7.53
97714680	F121S Service Manual	\$ 40.00	\$ 22.09
97714679	F221S Service Manual	\$ 40.00	\$ 22.09
94414481	F121S/F221S CD Service Manual	\$ 40.00	\$ 22.09
<b>Racks (These Items are Open Market)</b>			
HMDRRT1928	28" rack (includes assembly and hardware)	\$ 242.00	\$ 151.86
HMDNRR42HDW	42" rack (includes assembly and hardware)	\$ 447.00	\$ 280.49
HMDNRR63HDW	63" rack (includes assembly and hardware)	\$ 499.00	\$ 313.12
HMDNRR70HDW	70" rack (includes assembly and hardware)	\$ 507.00	\$ 318.14
<b>Programming software and cable</b>			
CS-F100S	Programming software	\$ 75.00	\$ 47.06
OPC-1122	Programming cable for PC to Radio with RC232S connector	\$ 99.00	\$ 62.12
OPC-1122U	Programming cable for PC to Radio with USB connector	\$ 99.00	\$ 62.12
<b>Programming Charges (These Items are Open Market)</b>			
PROGRAMMING IAS	Programming/Tuning fee per unit	\$ 50.00	\$ 31.38
SERVICE/SALES BUILD-UP IAS	Installation fee per unit (includes programming and tuning)	\$ 80.00	\$ 50.20

# 50W 100% Duty Cycle Repeater FR3000 - FR4000 SERIES

## VERSIONS

VHF 50W Repeater	
FR3000 02	150-174 MHz, 12.5/25 kHz Channel Spacing
UHF 50W Repeater	
FR4000 03	450-480 MHz, 12.5/25 kHz Channel Spacing

## FEATURES

- 32 memory channels
- 16-digit dot matrix display
- 5-tone functions
- CW ID included
- DTMF remote control capability
- Automatic battery backup capable
- DB-25 Accessory connector on rear panel
- Built in Community Tone Panel
- Internal space for duplexer and pre-selector
- Telephone interconnect built in
- Master/slave backup operation capable
- Password & kill/stun function for security
- Selectable wide/narrow channel spacing
- Self check function checks internal errors & alert by beep sound or by a phone line
- A programmable button gives access to customized function
- Temperature alert
- Warranty: 2 Years

## SIGNALING

- Up to 16 CTCSS, DTCS, tone signals per channel
- Built-in 2 -tone, 5-tone, DTMF encoder & decoder

## ENCRYPTION

Simple Inversion	UT-109 01 32 Codes
Rolling Code	UT-110 01 1020 Codes

## BASE STATION USES

Use this unit as a base by adding an antenna relay and program accordingly



# FR3000 - FR4000 SERIES PRICING

Model	Description	Retail	GSA
FR3000 02	150-174 MHz, 12.5/25 kHz Channel Spacing	\$ 2,245.00	\$ 1,408.74
FR4000 03	450-480 MHz, 12.5/25 kHz Channel Spacing	\$ 2,320.00	\$ 1,455.80

# FR3000 - FR4000 SERIES ACCESSORIES

Model	Description	Retail	GSA
<b>Duplexer Kits (These items are Open Market - Installation &amp; Tuning included in price)</b>			
IAS VHF DUP KIT	Internal notch type duplexer (3 MHz minimum separation)	\$ 560.00	\$ 351.40
IAS UHF DUP KIT	Internal notch type duplexer (5 MHz minimum separation)	\$ 560.00	\$ 351.40
<b>Internal Modules</b>			
UT-109 01	Simple voice inversion scrambler with up to 32 codes	\$ 105.00	\$ 65.89
UT-110 01	Rolling code scrambler with up to 1020 (255 codes x 4 groups) available	\$ 173.00	\$ 108.56
<b>Manuals</b>			
98814698/873	FR4000/FR3000 owners manual	\$ 12.00	\$ 7.53
97714766/794	FR4000/FR3000 service manual	\$ 40.00	\$ 22.09
94414791	FR3000/FR4000 CD service manual	\$ 40.00	\$ 22.09
<b>Microphones</b>			
HM-152	Hand Microphone	\$ 44.00	\$ 27.61
HM-152T	Hand Microphone with DTMF	\$ 85.00	\$ 53.34
SM-25	Desktop Microphone	\$ 110.00	\$ 69.03
<b>Mounting hardware (*This item is Open Market)</b>			
MB-77	Wall Mount Bracket	\$ 110.00	\$ 69.03
MB-78	19" Rack Mount Bracket	\$ 132.00	\$ 82.83
ASAP FR RACK*	Rack-Cabinet Mounting Frame for FR Series	\$ 120.00	\$ 75.30
<b>Pre-Selector (These items are Open Market)</b>			
FIP PR-45-4C	430-520 MHz UHF 4 cavity RX pre-selector	\$ 610.00	\$ 382.78
FIP PR-15-4H	150-174 MHz VHF 4 cavity RX pre-selector	\$ 623.00	\$ 390.93
<b>Programming software and cable</b>			
CS-FR3000	Programming software	\$ 72.00	\$ 45.18
OPC-478	Programming cable for PC to radio (requires OPC-592)	\$ 52.00	\$ 32.44
OPC-478UC	Programming cable for PC to radio with USB connector (requires OPC-592)	\$ 70.00	\$ 43.93
OPC-592	Programming cable adapter (use with OPC-478/UC)	\$ 17.00	\$ 10.67
<b>Programming Charges (These items are Open Market)</b>			
PROGRAMMING IAS	Programming/Tuning fee per unit	\$ 50.00	\$ 31.38
SERVICE/SALES BUILD-UP IAS	Installation fee per unit (includes programming and tuning)	\$ 80.00	\$ 50.20
<b>Relay Kit (This item is Open Market)</b>			
IAS COAX RLY KIT FR3000	Antenna Relay Kit (for base station application)	\$ 422.00	\$ 264.81
<b>Extended Warranty (This item is Open Market)</b>			
EXTWARRPT1	1 year extended warranty for a total of 4 years	\$ 180.00	\$ 112.95
EXTWARRPT2	2 year extended warranty for a total of 5 years	\$ 325.00	\$ 203.94
EXTWARRPT3	3 year extended warranty for a total of 6 years	\$ 465.00	\$ 291.79

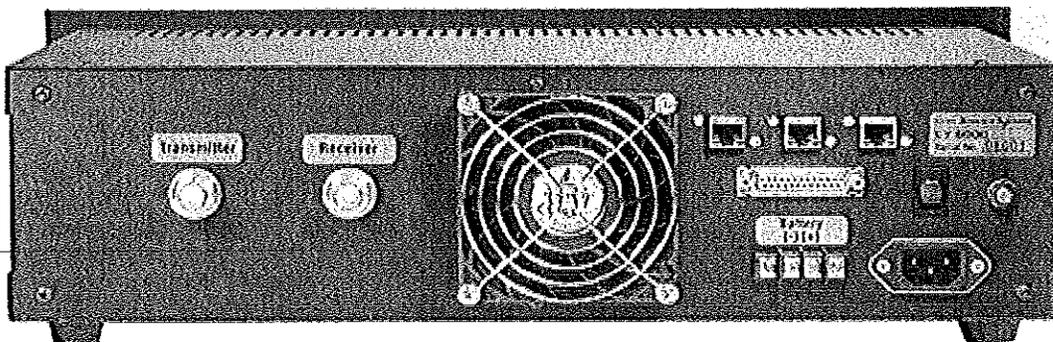
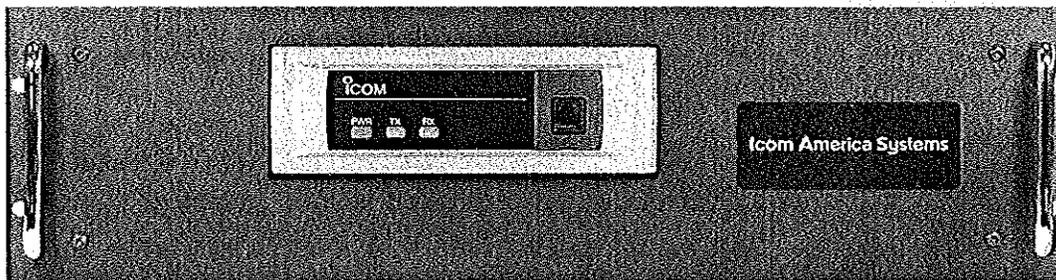
Prices are subject to change, corrections and pending GSA approvals.

GSA Contract #  
GS-35F-0109L

# All-in-One IDAS™ Digital & Analog Repeater CY5000 - CY6000 SERIES

## FEATURES

- Built-in power supply: 13.8V DC in or 110V AC in or 220V AC in
- Built-in battery back up and battery charging capabilities
- Built-in heavy duty A/C EMI filtering
- Built-in duplexer (optional)
- Built-in RF pre-selector (optional)
- 3 RU tall, built-in rack handles
- 19" standard rack or cabinet mounting
- Built-in, automatic, heavy duty cooling fan (CPU controller)
- Power-coated steel chassis
- Utilizes N style bulkhead connectors
- Built-in grounding stud
- Designed for max air cross-flow: 80 CFM for excellent ventilation
- Each unit is thoroughly tuned-tested and staged prior to shipment
- DB-25 rear connector for interfacing external equipment
- DC terminal strip for easy BBU connection
- 3 Ethernet connections for IP/remote management/trunking



# CY5000 - CY6000 SERIES PRICING

Model	Description	Retail	GSA
CY5000 41	136-174 MHz IDAS digital and analog repeater	\$ 2,230.00	\$ 1,399.33
CY6000 41	400-470 MHz IDAS digital and analog repeater	\$ 2,230.00	\$ 1,399.33
CY6000 51	450-512 MHz IDAS digital and analog repeater	\$ 2,230.00	\$ 1,399.33
CY5000 41-D	136-174 MHz IDAS digital and analog repeater with duplexer	\$ 2,835.00	\$ 1,778.96
CY6000 41-D	400-470 MHz IDAS digital and analog repeater with duplexer	\$ 2,835.00	\$ 1,778.96
CY6000 51-D	450-512 MHz IDAS digital and analog repeater with duplexer	\$ 2,835.00	\$ 1,778.96
CY5000 41-PRE	136-174 MHz IDAS digital and analog repeater with pre-selector	\$ 2,855.00	\$ 1,791.51
CY6000 41-PRE	400-470 MHz IDAS digital and analog repeater with pre-selector	\$ 2,855.00	\$ 1,791.51
CY6000 51-PRE	450-512 MHz IDAS digital and analog repeater with pre-selector	\$ 2,855.00	\$ 1,791.51
CY5000 41-D-PRE	136-174 MHz IDAS digital and analog repeater with duplexer and pre-selector	\$ 3,300.00	\$ 2,070.75
CY6000 41-D-PRE	400-470 MHz IDAS digital and analog repeater with duplexer and pre-selector	\$ 3,300.00	\$ 2,070.75
CY6000 51-D-PRE	450-512 MHz IDAS digital and analog repeater with duplexer and pre-selector	\$ 3,300.00	\$ 2,070.75

# CY5000 - CY6000 SERIES ACCESSORIES

Model	Description	Retail	GSA
<b>Duplexers - Installation and Tuning Included (These items are Open Market)</b>			
CY5000 DUP KIT	FR5000 Internal Duplexer (3 MHz minimum separation)	\$ 608.33	\$ 381.73
CY6000 DUP KIT	FR6000 Internal Duplexer (5 MHz minimum separation)	\$ 608.33	\$ 381.73
<b>IP Linking</b>			
CF-FR5000 02	IP Repeater Link Card (requires the UC-FR5000 board)	\$ 65.00	\$ 40.79
<b>Trunking / Network Controller</b>			
UC-FR5000 01	IDAS Trunking & Network Controller	\$ 500.00	\$ 313.75
<b>Manuals</b>			
98815350	Owners Manual	\$ 12.00	\$ 7.53
97715370	FR5000 Service Manual	\$ 40.00	\$ 22.09
97715348	FR6000 Service Manual	\$ 40.00	\$ 22.09
94415514	FR5000 CD Service Manual	\$ 40.00	\$ 22.09
94415355	FR6000 CD Service Manual	\$ 40.00	\$ 22.09
<b>Pre-Selectors (These items are Open Market)</b>			
FIP-PR-45-4C	Internally Mounted- 4 Cavity RX Pre-Selector-UHF	\$ 610.00	\$ 382.78
FIP-PR-15-4H	Internally Mounted- 4 Cavity RX Pre-Selector-VHF	\$ 623.00	\$ 390.93
<b>Programming Software &amp; Cables</b>			
CS-FR5000	Programming software	\$ 72.00	\$ 45.18
OPC-1122	Programming cable for PC to Radio	\$ 99.00	\$ 62.12
OPC-1122U	Programming cable for PC to Radio with USB connector	\$ 99.00	\$ 62.12
<b>Programming Charges (These items are Open Market)</b>			
PROGRAMMING IAS	Programming/Tuning fee per unit	\$ 50.00	\$ 31.38
SERVICE/SALES BUILD-UP IAS	Installation fee per unit (includes programming and tuning)	\$ 80.00	\$ 50.20
<b>Remote Communication</b>			
RC-FS10 05	Remote communicator software - comes with CT-24	\$ 1,995.00	\$ 1,251.86
CT-23 01	PTT microphone adapter to use SM-25 or HM-152 with a PC	\$ 120.00	\$ 75.30

Prices are subject to change, correction and pending GSA approvals.

GSA Contract #:  
GS-35F-0109L

# IDAS RACK MOUNT REPEATER FR5000 - FR6000 SERIES

## VERSIONS

VHF 50W repeater	
FR5000 01	136-174 MHz, 6.25/12.5/25 kHz Channel Spacing
UHF 50W repeater	
FR6000 01	400-470 MHz, 6.25/12.5/25 kHz Channel Spacing
FR6000 11	450-520 MHz, 6.25/12.5/25 kHz Channel Spacing

## FEATURES

Analog and 6.25 digital capable  
32 memory channels  
16-digit dot matrix display  
5-tone functions  
CW ID  
DTMF remote control capability  
DB-25 connector pins for external interfacing  
50 Watts 50% duty cycle or 36 Watts 100% duty cycle  
Second space available for optional UR module, antenna switch, notch duplexer, or pilot tone generator  
Password & Kill/Stun function for security  
Selectable wide/narrow/very narrow channel spacing  
Self check function checks internal errors  
Temperature alert  
Warranty: 2 years

## SIGNALING

Built-in 2 tone-5-tone, DTMF encoder & decoder

## ENCRYPTION

Simple Inversion	UT109R 21 32 codes
Rolling Code	UT110R 21 1020 codes

## 6.25 TRUNKING

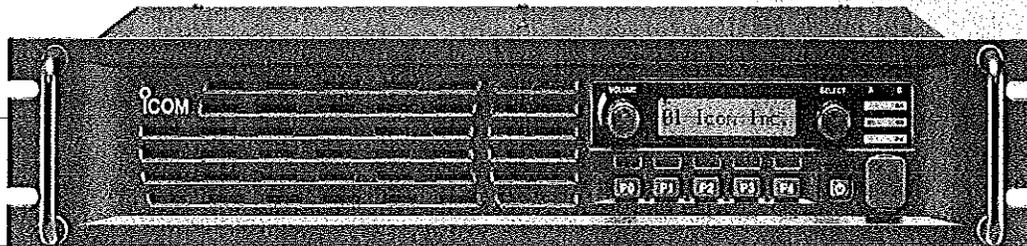
UCFR5000 trunking & network controller

## IP LINKING

CF-FR5000 IP repeater link card (coming soon)

## REMOTE COMMUNICATOR

RC-FS10 remote communicator allows the PC to act like a radio (coming soon)



# FR5000 - FR6000 SERIES PRICING

Model	Description	Retail	GSA
FR5000 01	136-174 MHz, 50 Watt Digital Enabled Repeater (power supply not included)	\$ 2,165.00	\$ 1,358.54
FR6000 01	400-470 MHz, 50 Watt Digital Enabled Repeater (power supply not included)	\$ 2,165.00	\$ 1,358.54
FR6000 11	450-520 MHz, 50 Watt Digital Enabled Repeater (power supply not included)	\$ 2,165.00	\$ 1,358.54
FR5000 01 UR KIT	FR5000 + URFR5000	\$ 2,535.00	\$ 1,590.71
FR6000 01 UR KIT	FR6000 01 + URFR6000 41	\$ 2,535.00	\$ 1,590.71
FR6000 11 UR KIT	FR6000 11 + URFR6000 42	\$ 2,535.00	\$ 1,590.71
FR5000 2CH KIT	IDAS VHF 2 Channels Conventional System Kit (includes 2 RF units, 2 external power supplies, and 2 internal duplexers)	\$ 3,800.00	\$ 2,384.50
FR6000 01 2CH KIT	IDAS UHF 400-470 MHz 2 Channels Conventional System Kit (includes 2 RF units, 2 external power supplies, and 2 internal duplexers)	\$ 3,800.00	\$ 2,384.50
FR6000 11 2CH KIT	IDAS UHF 450-520 MHz 2 Channels Conventional System Kit (includes 2 RF units, 2 external power supplies, and 2 internal duplexers)	\$ 3,800.00	\$ 2,384.50

# FR5000 - FR6000 SERIES ACCESSORIES

Model	Description	Retail	GSA
<b>Antenna Switches (These Items are Open Market)</b>			
IAS 1RU ANT SW-DUAL	Dual antenna switch for base station operation	\$ 1,000.00	\$ 627.50
IAS 1RU ANT SW-SINGLE	Single antenna switch for base station operation	\$ 583.33	\$ 366.04
<b>Duplexers - Installation and Tuning Included (These Items are Open Market)</b>			
IAS FR5000 DUP KIT	FR5000 Internal Duplexer (3 MHz minimum separation)	\$ 560.00	\$ 351.40
IAS FR6000 DUP KIT	FR6000 Internal Duplexer (5 MHz minimum separation)	\$ 560.00	\$ 351.40
<b>IP Linking</b>			
CF-FR5000 02	IP Repeater Link Card (requires the UC-FR5000 board)	\$ 65.00	\$ 40.79
<b>Internal Boards/Modules</b>			
UC-FR5000 01	IDAS Trunking & Network Controller	\$ 500.00	\$ 313.75
UR-FR5000 41	VHF 136-174 MHz Repeater Channel Module	\$ 1,205.00	\$ 756.14
UR-FR6000 41	UHF 400-470 MHz Repeater Channel Module	\$ 1,205.00	\$ 756.14
UR-FR6000 51	UHF 450-520 MHz Repeater Channel Module	\$ 1,205.00	\$ 756.14
<b>Manuals</b>			
98815350	FR5000/FR6000 owners manual	\$ 12.00	\$ 7.53
97715348	FR5000/FR6000 service manual	\$ 40.00	\$ 22.09
94415355	FR5000/FR6000 CD service manual	\$ 40.00	\$ 22.09
<b>Microphones</b>			
HM-152	Hand Microphone	\$ 44.00	\$ 27.61
HM-152T	Hand Microphone with DTMF	\$ 85.00	\$ 53.34
SM-25	Desktop Microphone	\$ 110.00	\$ 69.03
<b>Mounting Plate (This item is Open Market)</b>			
ASAP FR6000 UNIVERSAL PL	Internal universal accessory mounting plate	\$ 26.00	\$ 16.32
<b>Pilot Tone Generator (This Item is Open Market)</b>			
JPSPTG10	Pilot Tone Generator (requires ASAP mounting plate for installation)	\$ 980.67	\$ 615.37
<b>External Power Supplies (These Items are Open Market)</b>			
ICT 22012-20AR	External rack mountable power supply	\$ 399.00	\$ 250.37
ICT 22012-20A	Second power supply module for ICT 22012-20AR	\$ 333.00	\$ 208.96
ICT RMB LARGE	Bracket for second power supply (use with ICT 22012-20A)	\$ 26.00	\$ 16.32
ICT 22012-30N	Additional module (mounts inside ICT 22012-35N/70N)	\$ 388.00	\$ 243.47
ICT 22012-35N	Single module power supply - rack mountable (4 module capable)	\$ 1,199.00	\$ 752.37
ICT 22012-70N	Dual module power supply - rack mountable (4 module capable)	\$ 1,587.00	\$ 995.84
<b>Pre-Selectors (These Items are Open Market)</b>			
FIP-PR-45-4C	Internally Mounted- 4 Cavity RX Pre-Selector-UHF	\$ 610.00	\$ 382.78
FIP-PR-15-4H	Internally Mounted- 4 Cavity RX Pre-Selector-VHF	\$ 623.00	\$ 390.93
<b>Programming software and cable</b>			
CS-FR5000	Programming software	\$ 72.00	\$ 45.18
OPC-1122	Programming cable for PC to Radio	\$ 99.00	\$ 62.12
OPC-1122U	Programming cable for PC to Radio with USB connector	\$ 99.00	\$ 62.12
<b>Remote Communication</b>			
RC-FS10 05	Remote communicator software - comes with CT-24	\$ 1,995.00	\$ 1,251.86
CT-23 01	PTT microphone adapter to use SM-25 or HM-152 with a PC	\$ 120.00	\$ 75.30
<b>Scramblers</b>			
UT-109R	Simple voice inversion scrambler with up to 32 codes	\$ 105.00	\$ 65.89
UT-110R	Rolling code scrambler with up to 1020 (255 codes x 4 groups) available	\$ 173.00	\$ 108.56
<b>Extended Warranty (These Items are Open Market)</b>			
EXTWARRPT1	1 year extended warranty for a total of 4 years	\$ 180.00	\$ 112.95
EXTWARRPT2	2 year extended warranty for a total of 5 years	\$ 325.00	\$ 203.94
EXTWARRPT3	3 year extended warranty for a total of 6 years	\$ 465.00	\$ 291.79

Prices are subject to change, corrections and pending GSA approval.

GSA Contract #  
GS-35F-0109L

# IAS 100W REPEATERS

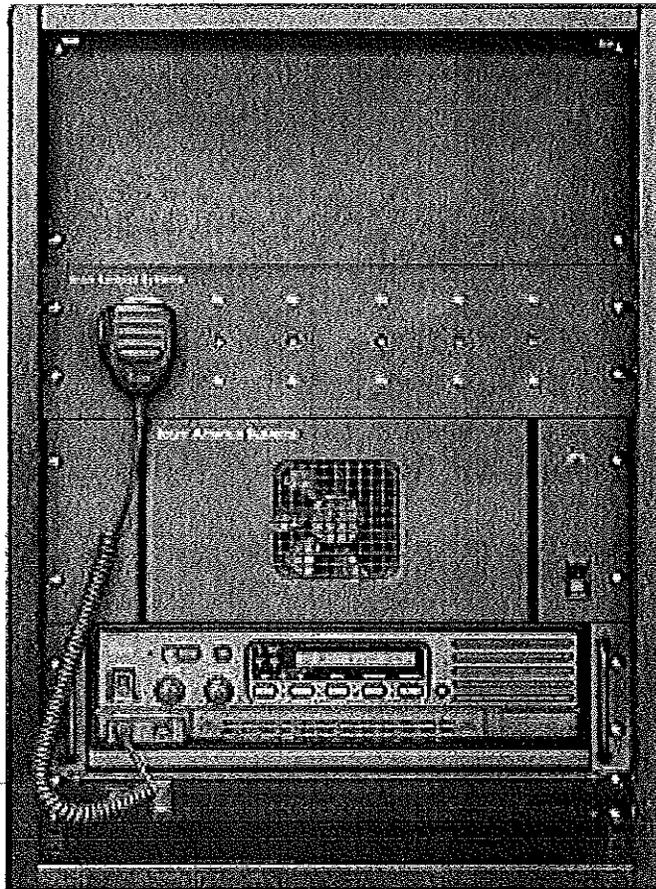
## VERSIONS

VHF Repeater		
IAS 100WV		150-174 MHz, 12.5/25 kHz Channel Spacing
UHF Repeater		
IAS 100WU 01		400-430 MHz, 12.5/25 kHz Channel Spacing
IAS 100WU 03		450-480 MHz, 12.5/25 kHz Channel Spacing

## FEATURES

- FR3000/FR4000 100 Watts at 100% duty cycle
- Integrated heavy duty amplifier with a power supply 110V/220V AC operation
- 12V DC operation available
- A/C surge suppression panel with six outlets
- Programming assembly and configuration
- Crating for shipment (rack or cabinet)
- Instruction manual and operation manual
- Multiple CTCSS & DTCS tone memories with 32 memory channels
- DTMF remote control capability
- Mounting bracket (rack or cabinet)

100W repeater shown with optional  
30" cabinet and duplexer



# IAS 100W SERIES PRICING

Model	Description	Retail	GSA
IAS 100WV	150-174 MHz, 12.5/25 kHz Channel Spacing	\$ 5,250.00	\$ 3,294.38
IAS 100WU 03	450-480 MHz, 12.5/25 kHz Channel Spacing	\$ 5,250.00	\$ 3,294.38

# IAS 100W SERIES ACCESSORIES

Model	Description	Retail	GSA
<b>Antenna Relay Kit (This item is Open Market)</b>			
IAS COAX RLY KIT FR3000	Antenna relay kit (for base station application)	\$ 422.00	\$ 264.81
<b>Cabinets (These items are Open Market)</b>			
ASAP INDOOR CABINET 30	30" indoor cabinet	\$ 850.00	\$ 533.38
ASAP INDOOR CABINET 46	46" indoor cabinet	\$ 1,249.00	\$ 783.75
ASAP INDOOR CABINET 60	60" indoor cabinet	\$ 2,155.00	\$ 1,352.26
<b>Duplexers (These items are Open Market - price does not include installation &amp; tuning)</b>			
IAS DVN 4522L	400-512MHz, 3 Min Split, 4 Cavity Duplexer	\$ 1,653.00	\$ 1,037.26
IAS DVNC 1533L	148-174MHz, 2 Min Split, 4 Cavity Duplexer	\$ 1,823.00	\$ 1,143.93
TEL TPRD 1556	400 Kc minimum split VHF duplexer	\$ 3,850.00	\$ 2,415.88
TEL TPRD 1554	600 Kc minimum split UHF duplexer	\$ 2,375.00	\$ 1,490.31
<b>Manuals</b>			
98814698	FR4000 owners manual	\$ 12.00	\$ 7.53
98814873	FR3000 owners manual	\$ 12.00	\$ 7.53
97714766	FR4000 service manual	\$ 40.00	\$ 22.09
97714794	FR3000 service manual	\$ 40.00	\$ 22.09
94414791	FR3000/FR4000 CD service manual	\$ 40.00	\$ 22.09
<b>Microphones</b>			
HM-152	Hand Microphone	\$ 44.00	\$ 27.61
HM-152T	Hand Microphone with DTMF	\$ 85.00	\$ 53.34
SM-25	Desktop Microphone	\$ 110.00	\$ 69.03
<b>Pre-Selector (These items are Open Market)</b>			
FIP PR-45-4C	430-520 MHz UHF 4 cavity RX pre-selector	\$ 610.00	\$ 382.78
FIP PR-15-4H	150-174 MHz VHF 4 cavity RX pre-selector	\$ 623.00	\$ 390.93
<b>Programming software and cable</b>			
CS-FR3000	Programming software	\$ 72.00	\$ 45.18
OPC-478	Programming cable for PC to radio (requires OPC-592)	\$ 52.00	\$ 32.44
OPC-478UC	Programming cable for PC to radio with USB connector (requires OPC-592)	\$ 70.00	\$ 43.93
OPC-592	Programming cable adapter (use with OPC-478/UC)	\$ 17.00	\$ 10.67
<b>Programming Charges (These items are Open Market)</b>			
PROGRAMMING IAS	Programming/Tuning fee per unit	\$ 50.00	\$ 31.38
SERVICE/SALES BUILD-UP IAS	Installation fee per unit (Includes programming and tuning)	\$ 80.00	\$ 50.20
<b>Racks (These items are Open Market)</b>			
HMDRRTT 1928	28" rack (includes assembly and hardware)	\$ 242.00	\$ 151.86
HMDDNRR42HDW	42" rack (includes assembly and hardware)	\$ 447.00	\$ 280.49
HMDDNRR63HDW	63" rack (includes assembly and hardware)	\$ 499.00	\$ 313.12
HMDDNRR70HDW	70" rack (includes assembly and hardware)	\$ 507.00	\$ 318.14

Prices are subject to change, corrections and pending GSA approval.

GSA Contract #  
GS-35F-0109L

# IDAS 100W Digital Capable Base/Repeater IAS 100D SERIES

## VERSIONS

Standard Version  
Public Safety Version

IAS 100DV (VHF) & IAS 100DU (UHF)  
IAS 100DV PUBLIC SAFETY (VHF) & IAS 100DU PUBLIC SAFETY (UHF)

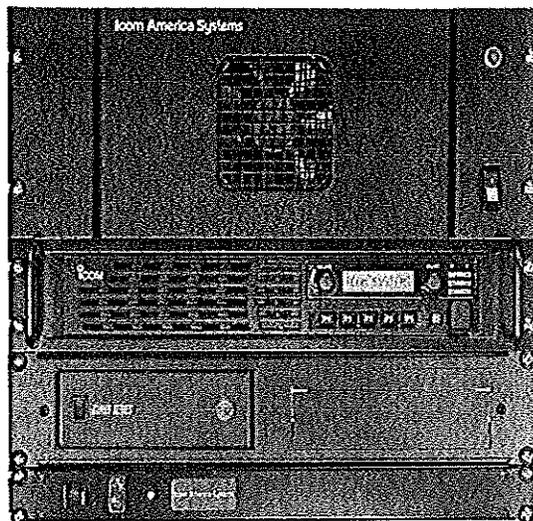
## FEATURES

**Standard Version - IAS 100DV (VHF) & IAS 100DU (UHF) includes:**

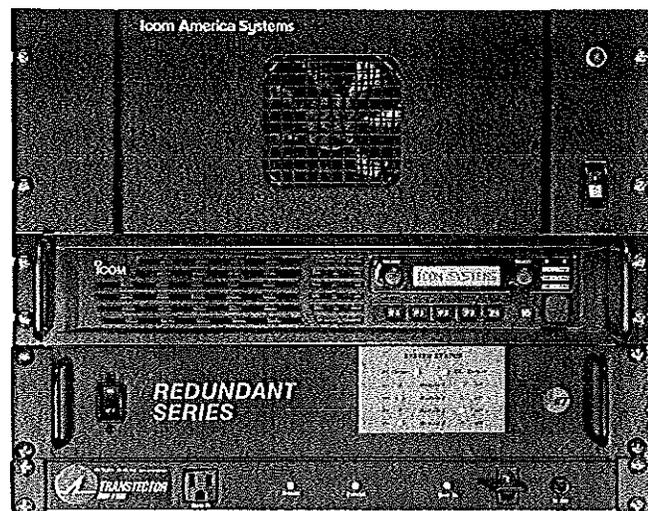
- \* FR5000/FR6000
- \* 20 amp power supply with float charging capabilities of an external battery
- \* 15 amp A/C surge suppression panel with 780 joules A/C surge suppression - MOV technology
- \* TPL 100% duty cycle amplifier with built-in power supply with auto bypass of exciter input in case of A/C failure

**Public Safety Version - IAS 100DV PUBLIC SAFETY (VHF) & IAS 100DU PUBLIC SAFETY (UHF) includes:**

- \* FR5000/FR6000
- \* 70 amp power supply with smart charging external battery technology - modular design load capacity and expandable to 120 amp load capacity
- \* 15 amp A/C surge suppression panel with 1750 joules A/C surge suppression - SASD technology
- \* TPL 100% duty cycle amplifier that operates on DC voltage. In case of A/C failure, the repeater continues to develop 100W at 100% duty cycle



IAS 100D Standard Version



IAS 100D Public Safety Version

# IAS 100D SERIES PRICING

Model	Description	Retail	GSA
IAS 100DU 01	400-470 MHz, NXDN 100W 100% duty cycle base station repeater	\$ 5,050.00	\$ 3,168.88
IAS 100DU 01 PUBLIC SAFETY	400-470 MHz, NXDN 100W 100% duty cycle base station repeater	\$ 5,890.00	\$ 3,695.98
IAS 100DU 11	450-520 MHz, NXDN 100W 100% duty cycle base station repeater	\$ 5,050.00	\$ 3,168.88
IAS 100DU 11 PUBLIC SAFETY	450-520 MHz, NXDN 100W 100% duty cycle base station repeater	\$ 5,890.00	\$ 3,695.98
IAS 100DV	136-174 MHz, NXDN 100W 100% duty cycle base station repeater	\$ 5,050.00	\$ 3,168.88
IAS 100DV PUBLIC SAFETY	136-174 MHz, NXDN 100W 100% duty cycle base station repeater	\$ 5,890.00	\$ 3,695.98

# IAS 100D SERIES ACCESSORIES

Model	Description	Retail	GSA
<b>Antenna Switches (These Items are Open Market)</b>			
IAS 1RU ANT SW-DUAL	Dual antenna switch for base station operation	\$ 1,000.00	\$ 627.50
IAS 1RU ANT SW-SINGLE	Single antenna switch for base station operation	\$ 583.33	\$ 366.04
<b>Cabinets (These Items are Open Market)</b>			
ASAP INDOOR CABINET 30	30" indoor cabinet	\$ 850.00	\$ 533.38
ASAP INDOOR CABINET 46	46" indoor cabinet	\$ 1,249.00	\$ 783.75
ASAP INDOOR CABINET 60	60" indoor cabinet	\$ 2,155.00	\$ 1,352.26
<b>Duplexers (These Items are Open Market)</b>			
IAS DVN 4522L	400-512MHz, 3 Min Split, 4 Cavity Duplexer	\$ 1,653.00	\$ 1,037.26
IAS DVNC 1533L	148-174MHz, 2 Min Split, 4 Cavity Duplexer	\$ 1,823.00	\$ 1,143.93
TEL TPRD 1556	400 Kc minimum split VHF duplexer	\$ 3,850.00	\$ 2,415.88
TEL TPRD 1554	600 Kc minimum split UHF duplexer	\$ 2,375.00	\$ 1,490.31
<b>External Power Supplies (These Items are Open Market)</b>			
ICT 22012-20A	Second power supply module for ICT 22012-20AR	\$ 333.00	\$ 208.96
ICT RMB LARGE	Bracket for second power supply (use with ICT 22012-20A)	\$ 26.00	\$ 16.32
ICT 22012-30N	Additional module (mounts inside ICT 22012-35N/70N)	\$ 388.00	\$ 243.47
<b>IP Linking</b>			
CF-FR5000 02	IP Repeater Link Card (requires the UC-FR5000 board)	\$ 65.00	\$ 40.79
<b>Internal Repeater Channel Modules</b>			
UR-FR5000 41	VHF 136-174 MHz Repeater Channel Module	\$ 1,205.00	\$ 756.14
UR-FR6000 41	UHF 400-470 MHz Repeater Channel Module	\$ 1,205.00	\$ 756.14
UR-FR6000 51	UHF 450-520 MHz Repeater Channel Module	\$ 1,205.00	\$ 756.14
<b>Manuals</b>			
98815350	Owners Manual	\$ 12.00	\$ 7.53
97715370	FR5000 Service Manual	\$ 40.00	\$ 22.09
97715348	FR6000 Service Manual	\$ 40.00	\$ 22.09
94415514	FR5000 CD Service Manual	\$ 40.00	\$ 22.09
94415355	FR6000 CD Service Manual	\$ 40.00	\$ 22.09
<b>Microphones</b>			
HM-152	Hand Microphone	\$ 44.00	\$ 27.61
HM-152T	Hand Microphone with DTMF	\$ 85.00	\$ 53.34
SM-25	Desktop Microphone	\$ 110.00	\$ 69.03
<b>Mounting Plate</b>			
ASAP FR6000 UNIVERSAL PL	Internal universal accessory mounting plate	\$ 26.00	\$ 16.32
<b>Pilot Tone Generator (This Item is Open Market)</b>			
JPSPTG10	Pilot Tone Generator (requires ASAP mounting plate for installation)	\$ 980.67	\$ 615.37
<b>Pre-Selectors (These Items are Open Market)</b>			
FIP-PR-45-4C	Internally Mounted- 4 Cavity RX Pre-Selector-UHF	\$ 610.00	\$ 382.78
FIP-PR-15-4H	Internally Mounted- 4 Cavity RX Pre-Selector-VHF	\$ 623.00	\$ 390.93
<b>Programming software and cable</b>			
CS-FR5000	Programming software	\$ 72.00	\$ 45.18
OPC-1122	Programming cable for PC to Radio	\$ 99.00	\$ 62.12
OPC-1122U	Programming cable for PC to Radio with USB connector	\$ 99.00	\$ 62.12
<b>Programming Charges (These Items are Open Market)</b>			
PROGRAMMING IAS	Programming/Tuning fee per unit	\$ 50.00	\$ 31.38
SERVICE/SALES BUILD-UP IAS	Installation fee per unit (includes programming and tuning)	\$ 80.00	\$ 50.20
<b>Racks (These Items are Open Market)</b>			
HMDRRT1928	28" rack (includes assembly and hardware)	\$ 242.00	\$ 151.86
HMDDNRR42HDW	42" rack (includes assembly and hardware)	\$ 447.00	\$ 280.49
HMDDNRR63HDW	63" rack (includes assembly and hardware)	\$ 499.00	\$ 313.12
HMDDNRR70HDW	70" rack (includes assembly and hardware)	\$ 507.00	\$ 318.14
<b>Remote Communication</b>			
RC-FS10 05	Remote communicator software - comes with CT-24	\$ 1,995.00	\$ 1,251.86
CT-23 01	PTT microphone adapter to use SM-25 or HM-152 with a PC	\$ 120.00	\$ 75.30
<b>Scramblers (Analog base mode operation only)</b>			
UT-109R 21	Simple voice inversion scrambler with up to 32 codes	\$ 105.00	\$ 65.89
UT-110R 21	Rolling code scrambler with up to 1020 (255 codes x 4 groups) available	\$ 173.00	\$ 108.66
<b>Trunking / Network Controller</b>			
UC-FR5000 01	IDAS Trunking & Network Controller	\$ 500.00	\$ 313.75

Prices are subject to change, corrections and pending GSA approval.

GSA Contract #  
GS-35F-0109L

# RF Technology Eclipse Series P25 Repeater - Analog Base Station

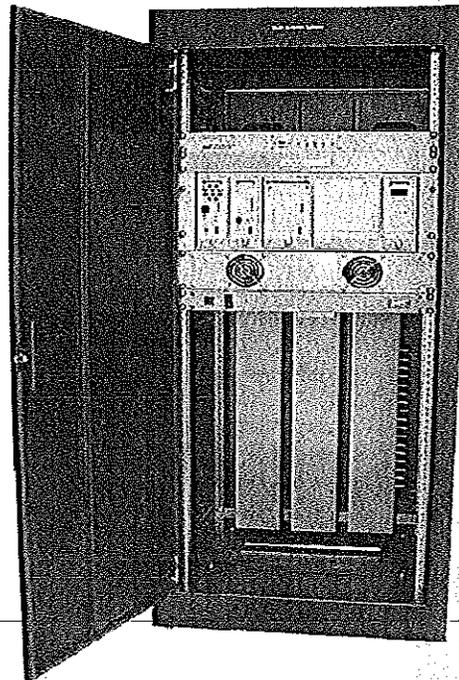
Open Market

## VERSIONS

RFT P25 60W VHF Repeater	136-174 MHz, 60W P25/Analog Repeater with Power Supply
RFT P25 100W VHF Rptr	136-174 MHz, 100W P25/Analog Repeater with Power Supply
RFT P25 60W UHF Repeater	400-430/440-490/485-520 MHz, 60W P25/Analog Repeater with Power Supply
RFT P25 100W UHF Rptr	400-430/440-490/485-520 MHz, 100W P25/Analog Repeater with Power Supply
RFT 60W VHF Repeater	136-174 MHz, 60W Analog Repeater with Power Supply – P25 Upgradeable
RFT 100W VHF Repeater	136-174 MHz, 100W Analog Repeater with Power Supply – P25 Upgradeable
RFT 60W UHF Repeater	400-430/440-490/485-520 MHz, 60W Analog Repeater with Power Supply – P25 Upgradeable
RFT 100W UHF Repeater	400-430/440-490/485-520 MHz, 100W Analog Repeater with Power Supply – P25 Upgradeable
RFT P25-C	P25 Firmware Upgrade Conventional

## FEATURES

- \*Auto Sensing Repeater (P25/Analog) - 100% Duty Cycle Operation
- \*Remote Diagnostics over Ethernet - Alarm monitoring and Alarm Reporting
- \*Battery Back Up - Charging and Auto Switch Over Capability
- \*Built In 35 Amp Power Supply - 240-120V AC operation
- \*IP Commander - Ethernet Programming with Rollback' Feature
- \*Modular Design- Space Saving 4RU
- \*Full Duplex Analog Base Station - Repeater
- \*Firmware Upgradeable to P25 via Ethernet
- \*IP Firmware and Software Updating Capability



# RFT ECLIPSE SERIES PRICING

*All items are Open Market*

Model	Description	Retail	Open Market
RFT P25 60W Rptr 136-174	136-174 MHz, 60W P25/Analog Repeater with Power Supply	\$ 12,321.00	\$ 7,731.43
RFT P25 100W Rptr 136-174	136-174 MHz, 100W P25/Analog Repeater with Power Supply	\$ 12,622.00	\$ 7,920.31
RFT P25 60W Rptr 400-430/440-490/485-520	400-430/440-490/485-520 MHz, 60W P25/Analog Repeater with Power Supply	\$ 12,425.00	\$ 7,796.69
RFT P25 100W Rptr 400-430/440-490/485-520	400-430/440-490/485-520 MHz, 100W P25/Analog Repeater with Power Supply	\$ 13,025.00	\$ 8,173.19
RFT 60W Rptr 136-174	136-174 MHz, 60W Analog Repeater with Power Supply – P25 Upgradeable	\$ 8,829.00	\$ 5,540.20
RFT 100W Rptr 136-174	136-174 MHz, 100W Analog Repeater with Power Supply – P25 Upgradeable	\$ 9,130.00	\$ 5,729.08
RFT 60W Rptr 400-430/440-490/485-520	400-430/440-490/485-520 MHz, 60W Analog Repeater with Power Supply – P25 Upgradeable	\$ 8,933.00	\$ 5,605.46
RFT 100W Rptr 400-430/440-490/485-520	400-430/440-490/485-520 MHz, 100W Analog Repeater with Power Supply – P25 Upgradeable	\$ 9,533.00	\$ 5,981.96
RFT P25-C	P25 Firmware Upgrade Conventional	\$ 3,428.00	\$ 2,151.07

# RFT ECLIPSE SERIES ACCESSORIES

Model	Description	Retail	Open Market
<b>Antenna Switches</b>			
IAS 1RU ANT SW-DUAL	Dual antenna switch for base station operation	\$ 1,000.00	\$ 627.50
IAS 1RU ANT SW-SINGLE	Single antenna switch for base station operation	\$ 583.33	\$ 366.04
<b>Cabinets</b>			
ASAP INDOOR CABINET 30	30" indoor cabinet	\$ 850.00	\$ 533.38
ASAP INDOOR CABINET 46	46" indoor cabinet	\$ 1,249.00	\$ 783.75
ASAP INDOOR CABINET 60	60" indoor cabinet	\$ 2,155.00	\$ 1,352.26
<b>Racks</b>			
HMDRRT1928	28" rack (includes assembly and hardware)	\$ 242.00	\$ 151.86
HMDDNRR42HDW	42" rack (includes assembly and hardware)	\$ 447.00	\$ 280.49
HMDDNRR63HDW	63" rack (includes assembly and hardware)	\$ 499.00	\$ 313.12
HMDDNRR70HDW	70" rack (includes assembly and hardware)	\$ 507.00	\$ 318.14
<b>Duplexers (Price does not include installation &amp; tuning)</b>			
IAS DVN 4522L	400-512MHz, 3 Min Split, 4 Cavity Duplexer	\$ 1,653.00	\$ 1,037.26
IAS DVNC 1533L	148-174MHz, 2 Min Split, 4 Cavity Duplexer	\$ 1,823.00	\$ 1,143.93
TEL TPRD 1556	400 Kc minimum split VHF duplexer	\$ 3,850.00	\$ 2,415.88
TEL TPRD 1554	600 Kc minimum split UHF duplexer	\$ 2,375.00	\$ 1,490.31
<b>Fan Module</b>			
RF FM-1	Fan module (recommended for 100W units)	\$ 340.00	\$ 213.35
<b>Manuals</b>			
RFT P25 UHF Manual	UHF P25/Analog Manual	\$ 112.00	\$ 70.28
RFT P25 VHF Manual	VHF P25/Analog Manual	\$ 112.00	\$ 70.28
<b>Programming software and cable</b>			
RFT IP E2-P25	Programming Software P25 and Analog	\$ 445.00	\$ 279.24
<b>Programming</b>			
PROGRAMMING IAS	Programming/Tuning Fee per unit	\$ 50.00	\$ 31.38
SERVICE/SALES.BUILD-UP IAS	Installation free per unit (includes programming and tuning)	\$ 80.00	\$ 50.20

Prices are subject to change, correction and pending GSA approval.

GSA Contract #: GS-35F-0109L

# Daniels Repeaters

## P25 Repeater - Analog Base Station

*Open Market*

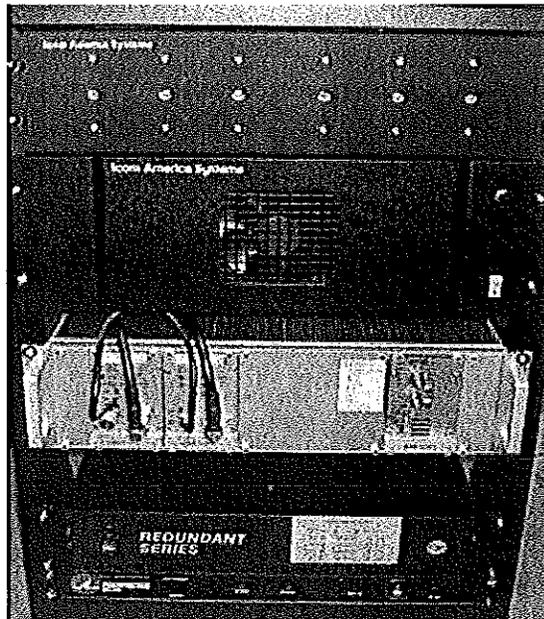
### VERSIONS

DAN UHF Anlg Rptr 50-100W  
DAN UHF P25 Rptr 50-100W  
DAN VHF Anlg Rptr 50-100W  
DAN VHF P25 Rptr 50-100W  
DAN P25 Upgrade

Analog UHF 450-470MHz with power supply  
P25 or Analog UHF 450-470MHz with power supply  
Analog 136-174MHz 50/100W with power supply  
P25 or Analog VHF 136-174MHz with power supply  
P25 firmware upgrade

### FEATURES

- \*Auto Sensing Repeater (P25/Analog) - 100% Duty Cycle Operation
- \*Battery Back Up - Charging and Auto Switch Over Capability
- \*Built In Dual 70 Amp Power Supply - 240-110V AC operation
- \*Modular Design- Space Saving
- \*Full Duplex Analog Base Station - Repeater
- \*Firmware Upgradeable to P25
- \*Extraordinarily high level of reliability
- \*Ability to withstand extreme temperatures (-40° C - + 60° C)
- \*Low current consumption



Prices are subject to change, correction  
and pending GSA approval.

GSA Contract #:  
GS-35F-0109L

# DANIELS P25 REPEATERS PRICING

*All items are Open Market*

Model	Description	Retail	Open Market
DAN UHF Anlg Rptr 50-100W	Analog UHF 450-470MHz with power upply	\$ 13,780.38	\$ 8,268.23
DAN UHF P25 Rptr 50-100W	P25 or Analog UHF 450-470MHz with power supply	\$ 20,836.43	\$ 12,501.86
DAN VHF Anlg Rptr 50-100W	Analog 136-174MHz 50/100W with power supply	\$ 13,289.43	\$ 7,973.66
DAN VHF P25 Rptr 50-100W	P25 or Analog VHF 136-174MHz with power supply	\$ 20,208.05	\$ 12,124.83
DAN P25 Upgrade	P25 firmware upgrade	\$ 7,833.84	\$ 4,700.30

# DANIELS P25 REPEATERS ACCESSORIES

Model	Description	Retail	Open Market
<b>Antenna Switches</b>			
IAS 1RU ANT SW-DUAL	Dual antenna switch for base station operation	\$ 1,000.00	\$ 600.00
IAS 1RU ANT SW-SINGLE	Single antenna switch for base station operation	\$ 583.33	\$ 350.00
<b>Cabinets</b>			
ASAP INDOOR CABINET 30	30" indoor cabinet	\$ 850.00	\$ 510.00
ASAP INDOOR CABINET 46	46" indoor cabinet	\$ 1,249.00	\$ 749.40
ASAP INDOOR CABINET 60	60" indoor cabinet	\$ 2,155.00	\$ 1,293.00
<b>Racks</b>			
HMDRRT1928	28" rack (includes assembly and hardware)	\$ 242.00	\$ 145.20
HMDDNRR42HDW	42" rack (includes assembly and hardware)	\$ 447.00	\$ 268.20
HMDDNRR63HDW	63" rack (includes assembly and hardware)	\$ 499.00	\$ 299.40
HMDDNRR70HDW	70" rack (includes assembly and hardware)	\$ 507.00	\$ 304.20
<b>Duplexers (Price does not include Installation &amp; tuning)</b>			
IAS DVN 4522L	400-512MHz, 3 Min Split, 4 Cavity Duplexer	\$ 1,653.00	\$ 991.80
IAS DVNC 1533L	148-174MHz, 2 Min Split, 4 Cavity Duplexer	\$ 1,823.00	\$ 1,093.80
TEL TPRD 1556	400 Kc minimum split VHF duplexer	\$ 3,850.00	\$ 2,310.00
TEL TPRD 1554	600 Kc minimum split UHF duplexer	\$ 2,375.00	\$ 1,425.00
<b>Programming software and cable</b>			
DAN PROGRAMMING KIT	Programming Software P25 and Analog	\$ 684.20	\$ 410.52
<b>Programming</b>			
PROGRAMMING IAS	Programming/Tuning Fee per unit	\$ 50.00	\$ 30.00
SERVICE/SALES BUILD-UP IAS	Installation free per unit (includes programming and tuning)	\$ 80.00	\$ 48.00

Prices are subject to change, correction and pending GSA approval.

GSA Contract #: GS-35F-0109L

**DEPARTMENT OF ADMINISTRATIVE SERVICES**

**STANDARD TERMS AND CONDITIONS**

**EXECUTIVE ORDER 2010-09S**

**Banning the Expenditure of Public Funds on Offshore Services**

All of the following provisions must be included in service contracts.

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**I. EXECUTIVE ORDER REQUIREMENTS:**

The Contractor affirms to have read and understands Executive Order 2010-09S issued by Ohio Governor Ted Strickland and shall abide by those requirements in the performance of this Contract, and shall perform no services required under this Contract outside of the United States. The Executive Order is provided as an attachment and also is available at the following website: (<http://www.governor.ohio.gov/Default.aspx?tabid=1495>).

The Contractor also affirms, understands, and agrees to immediately notify the State of any change or shift in the location(s) of services performed by the Contractor or its subcontractors under this Contract, and no services shall be changed or shifted to a location(s) that are outside of the United States.

**II. TERMINATION, SANCTION, DAMAGES:**

The State is not obligated and shall not pay for any services provided under this Contract that the Contractor or any of its subcontractors performed outside of the United States. If services are performed outside of the United States, this will be treated as a material breach of the Contract, and Contractor shall immediately return to the State all funds paid for those services.

In addition, if the Contractor or any of its subcontractors perform any such services outside of the United States, the State may, at any time after the breach, terminate this Contract for such breach, upon written notice to the Contractor. If the State terminates the Contract, the State may buy substitute services from a third party, and the State may recover the additional costs associated with acquiring the substitute services.

If the Contractor or any of its subcontractors prepares to perform services, changes or shifts the location(s) of services performed by the Contractor or its subcontractors under this Contract to a location(s) outside of the United States, but no services are actually performed, the Contractor has 30 days to change or shift the location(s) of services performed to location(s) within the United States. The State may recover liquidated damages in the amount of 10% of the value of the contract for every day past the time permitted to change or shift the location(s).

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**III. ASSIGNMENT / DELEGATION:**

The Contractor will not assign any of its rights nor delegate any of its duties and responsibilities under this Contract without prior written consent of the State. Any assignment or delegation not consented to may be deemed void by the State.

DEPARTMENT OF ADMINISTRATIVE SERVICES  
STANDARD AFFIRMATION AND DISCLOSURE FORM  
EXECUTIVE ORDER 2010-09S

Banning the Expenditure of Public Funds on Offshore Services

All of the following provisions must be included in all invitations to bid, requests for proposals, state term schedules, multiple award contracts, requests for quotations, informal quotations and statements of work.

This information is to be submitted as part of the response to any of the procurement methods listed.

**CONTRACTOR/SUBCONTRACTOR AFFIRMATION AND DISCLOSURE:**

By the signature affixed to this response, the Bidder/Offeror affirms, understands and will abide by the requirements of Executive Order 2010-09S issued by Ohio Governor Ted Strickland. If awarded a contract, the Bidder/Offeror becomes the Contractor and affirms that both the Contractor and any of its subcontractors shall perform no services requested under this Contract outside of the United States. The Executive Order is attached and is available at the following website:

(<http://www.governor.ohio.gov/Default.aspx?tabid=1495>).

The Bidder/Offeror shall provide all the name(s) and location(s) where services under this Contract will be performed in the spaces provided below or by attachment. Failure to provide this information as part of the response will deem the Bidder/Offeror not responsive and no further consideration will be given to the response. Bidder/Offeror's offering will not be considered. If the Bidder/Offeror will not be using subcontractors, indicate "Not Applicable" in the appropriate spaces.

1. Principal location of business of Contractor:

2380 116th Ave NE  
(Address)

Bellevue, WA 98004  
(City, State, Zip)

Name/Principal location of business of subcontractor(s):

Please refer to Attachment 1  
(Name)

\_\_\_\_\_  
(Address, City, State, Zip)

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Address, City, State, Zip)

2. Location where services will be performed by Contractor:

2380 116th Ave NE  
(Address)

Bellevue, WA 98004  
(City, State, Zip)

Name/Location where services will be performed by subcontractor(s):

Please refer to Attachment 1  
(Name)

\_\_\_\_\_  
(Address, City, State, Zip)

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Address, City, State, Zip)

3. Location where state data will be stored, accessed, tested, maintained or backed-up, by Contractor:  
2380 116th Ave NE Bellevue, WA 98004  
(Address) (Address, City, State, Zip)

Name/Location(s) where state data will be stored, accessed, tested, maintained or backed-up by subcontractor(s):

Please refer to Attachment 1  
(Name)

\_\_\_\_\_  
(Address, City, State, Zip)

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Address, City, State, Zip)

4. Location where services to be performed will be changed or shifted by Contractor:

2380 116th Ave NE  
(Address)

Bellevue, WA 98004  
(Address, City, State, Zip)

Name/Location(s) where services will be changed or shifted to be performed by subcontractor(s):

Please refer to Attachment 1  
(Name)

\_\_\_\_\_  
(Address, City, State, Zip)

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Address, City, State, Zip)

## Attachment 1

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BearCom Operating LP  
653 McCorkle Blvd. Suite D  
Westerville, OH 43082

Comtech, Inc.  
1417 Oakland Park Ave.  
Columbus, OH 43224

Midport Electronics, Inc.  
3101 West Sylvania Ave  
Toledo, OH 43613

Mitchell Communications  
3470 Manchester Rd.  
Akron, OH 44319

WS Electronics, LLC  
1106 State Route 380  
Xenia, OH 45385

Youngstown Radio Service Inc.  
123 North Meridian Road  
Youngstown, OH 44509