

State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Request for Quotation

FOR 09002

PAGE

ADDRESS CORRESPONDENCE TO ATTENTION OF FRANK WHITTAKER

DIVISION OF FORESTRY

BUILDING 13 T 4720 BRENDA LANE CHARLESTON, WV 25312

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GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

- 1. Awards will be made in the best interest of the State of West Virginia
- 2. The State may accept or reject in part, or in whole, any bid
- 3. All quotations are governed by the West Virginia Code and the Legislative Rules of the Purchasing Division
- 4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee
- 5. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30
- 6. Payment may only be made after the delivery and acceptance of goods or services
- 7. Interest may be paid for late payment in accordance with the West Virginia Code
- 8. Vendor preference will be granted upon written request in accordance with the West Virginia Code
- 9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes
- 10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller
- 11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract
- 12. Any reference to automatic renewal is hereby deleted
 The Contract may be renewed only upon mutual written agreement of the parties
- 13. BANKRUPTCY: In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
- 14. HIPAA BUSINESS ASSOCIATE ADDENDUM: The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (http://www.state.wv.us/admin/purchase/vrc/hipaa.htm) is hereby made part of the agreement Provided that, the Agency meets the definition of a Cover Entity (45 CFR §160 103) and will be disclosing Protected Health Information (45 CFR §160 103) to the vendor
- 15. WEST VIRGINIA ALCOHOL & DRUG-FREE WORKPLACE ACT: If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code. The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free work place policy in compliance with the West Virginia and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."

INSTRUCTIONS TO BIDDERS

- 1. Use the quotation forms provided by the Purchasing Division
- 2. SPECIFICATIONS: Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as EQUAL to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
- 3. Complete all sections of the quotation form
- 4. Unit prices shall prevail in case of discrepancy
- $\mathbf{5}$. All quotations are considered FOB destination unless alternate shipping terms are clearly identified in the quotation
- **6. BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130



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State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

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DIVISION OF FORESTRY

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State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Request for Quotation

FOR09002

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ADDRESS CORRESPONDENCE TO ATTENTION OF THE ADDRESS CORRESPONDENCE TO

FRANK WHITTAKER 304-558-2316

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DIVISION OF FORESTRY

BUILDING 13 4720 BRENDA LANE CHARLESTON, WV

25312 558-2788

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Staley Communication 2 - 22nd St

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State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130 Charleston, WV 25305-0130

Request for Quotation FOR09002

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804-558-2316 DIVISION OF FORESTRY

BUILDING 13 4720 BRENDA LANE CHARLESTON, WV

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Department of Administration
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2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

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FRANK WHITTAKER 304-558**-**2316

DIVISION OF FORESTRY

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Request for Quotation

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FRANK WHITTAKER

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DIVISION OF FORESTRY

BUILDING 13 4720 BRENDA LANE CHARLESTON, WV 25312

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REQUIRED: RADIO MUST BE COMPLETELY COMPATIBLE WITH EXISTING AGENCY BENDIX KING HANDHELD RADIOS, MODEL #DPHX5102X NOTE: ANY BID SPECIFYING AN ALTERNATIVE RADIO MUST INCLUDE SPECIFICATIONS ON THE RADIO

ANY VENDOR BIDDING ALTERNATIVE RADIOS WILL BE **REQUIRED** TO DEMONSTRATE FULL COMPATIBILITY ON-SITE TO AGENCY PERSONNEL

Radio must be completely field programmable with keypad for simplified

programming * Does not comply. Spec is proprietary to Bendix King equipment.

REQUIRED: Radio must be capable of cloning to or from existing portable radio models GPH. GMH EPH. and LPH

* Does not comply. Spec is proprietary to Bendix King equipment.

Radio must have one-line alpha-numeric display

Radio must have 'FLASH' technology

REQUIRED: Radio must have true digital-analog mixed mode operations

REQUIRED: Minimum 400 channels, 25 users groups with 16 channels per group

REQUIRED: Minimum 136-174 MHz VHF frequency range

Radio must have 15-50 watts programmable power in either standard dash-mount or remote-mount configurations

REQUIRED: Radio must meet all APCO P25 requirements

Radio must have availability of OTAR option (option to be purchased separately and not included in the price of bid)

Radio must have availability of DES/AES Encryption (option to be purchased separately and not included in the price of bid)

Radio must have unit-to-unit calls with auto-callback

Radio must have channel and priority scan, talkback scan

REQUIRED: Radio must have a weatherproof design

REQUIRED: Radios must have a one-year warranty with the option to purchase an additional warranty

REQUIRED: Radio must meet MIL-STD 810 and NIFC fire certification specifications

* NIFC Fire certification pertains to portable radios

REQUIRED: Radio must be FCC compliant at time of bid submission

REQUIRED: Radios must be accompanied by all required vehicle installation hardware (mounts, wires, antennas)

09-FOR-002 MOBILE RADIO - BID FORM							
* Estimated							
*	Purchase						
Description Motorola XTL 2500	Quantity	** Price per unit	Extended Price				
Bendix King Model DMH Mobile Radio		4	\$ 377 40 30				
(or equal - specify brand and model)	135	\$2,427.18	0014667.				
Desktop microphone for the above	8	108.00	<u>\$ 864,00</u>				
16 key microphone for the above	127	্ব । d ১ ০ ০	\$ 25,146.00				
	TOTAL						
Bidder/Vendor information							
Name: Staley Communication							
Address:		22md St					
		UV <u>2 6003</u>					
Phone #:	800 9	199.3723					
E-mail Address:	CCALIS	SSIE@ Staley	COW COM				
Website:	www.	Staleycom. Co	· · · · · · · · · · · · · · · · · · ·				
		ator Information					
Name:		alissic					
Address:	2 22	nd Street					
Phone #:		· · · · · · · · · · · · · · · · · · ·	2022				
E-mail Address:	CCALISSI	ie @ Staleycom.co					
* Quantities are estimated usage for biddir							
** Delivery is to be included in the price of	the items liste	d on this form. Standard	30 day delivery required.				

State of West Virginia

VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with **West Virginia Code**, §5A-3-37 (Does not apply to construction contracts) **West Virginia Code**, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the **West Virginia Code**. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable

1.	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or, Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or, Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,
2.	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3.	Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
<u>X</u>	Application is made for 5% resident vendor preference for the reason checked: Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5.	Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6	Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years
requirent against or deduc	inderstands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the ments for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency sted from any unpaid balance on the contract or purchase order
authorize the required	nission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and es the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid ired business taxes, provided that such information does not contain the amounts of taxes paid nor any other information by the Tax Commissioner to be confidential
and acc	enalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true curate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.
Bidder:	Statey Communication Signed: Chip ales Mgr. 7/11/08 Title: Sales Mgr.
Date:\	0/11/08 Title: Sales Mgr
*Check an	y combination of preference consideration(s) indicated above which you are entitled to receive

STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

VENDOR OWING A DEBT TO THE STATE:

West Virginia Code §5A-3-10a provides that: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

West Virginia Code §21-1D-5 provides that: Any solicitation for a public improvement construction contract shall require each vendor that submits a bid for the work to submit at the same time an affidavit that the vendor has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code. A public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code and who has not submitted that plan to the appropriate contracting authority in timely fashion For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the West Virginia Code may take place before their work on the public improvement is begun

ANTITRUST:

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud I further certify that I am authorized to sign the certification on behalf of the bidder or this bid

LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules Vendors should visit www.state.wv us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies

Under penalty of law for false swearing (West Virginia Code §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and is in compliance with the requirements as stated

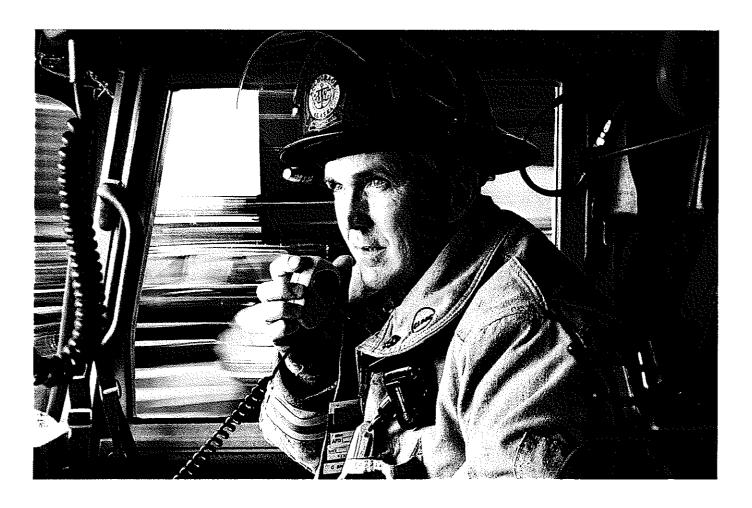
Vendor's Name:	taley Communication			
	Chip Calif	Date:	10/11/08	,

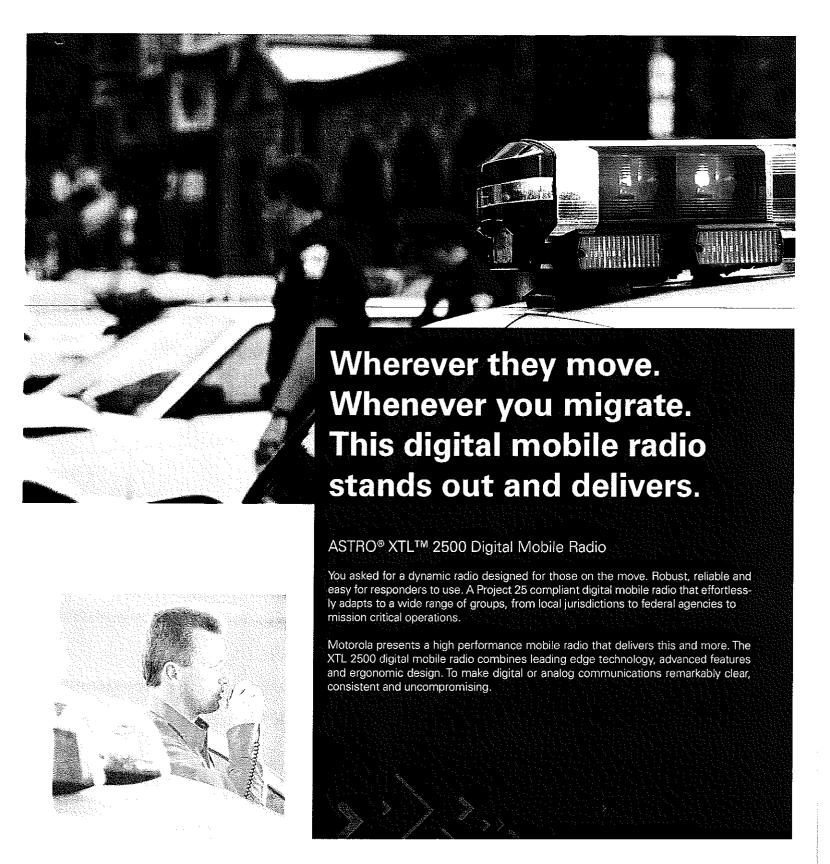
Purchasing Affidavit (Revised 07/01/08)



A digital mobile radio that does it all.

ASTRO® XTLIM 2500 Digital Mobile Radio







Superbly engineered to work wherever you do.

TERRORIEGIA (KO) EL EREDIEGIA KONOTOLA

- · Leading edge technology
- Tough, robust, made for the rigors of response
- Ergo-designed for true ease of use
- Ultra-readable tri-color backlit LCD display
- Dual mode operation: digital and analog
- 870 channels.
 5 programmable buttons
- P25 compliant interoperable voice signaling
- · Encryption capable
- Data capable
- FLASHport™ support
- Compatible with most ASTRO/XTL accessories
- · Dual control head
- Text Messaging (requires IV&D capability)
- OTAP (Over the air programming)
- Tactical OTAR (Over the air re-keying)

Vieitiste red to cur users and designed a digital mobile radio that delivers it all.

Simply smarter ergonomic design

We developed this mobile radio with first responders in mind. Starting with an XTL platform that offers a common user interface across tiers to streamline training. Then we added programmable buttons, accessible menus, large knobs and tri-color backlighting to power up its effectiveness in two-way operations. An updated 14-digit alphanumeric LCD display provides remarkable clarity in all types of light, even while wearing polarized sunglasses.

Real-world robust and mission-critical tough

We designed this mobile with the most demanding environments in mind. Its tough-as-nails, with a high quality transceiver that withstands the harsh conditions users often face in day-to-day operations. Dust, blowing rain, vibration or shock, this robust performer takes it on

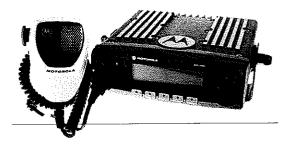
Ease of operation and migration in one

Whether you're upgrading from analog to digital or moving from a legacy to next generation network, this radio acts as an affordable migration solution. This tough performer is a powerful choice for P25 interoperability, too. It supports encryption, is data capable and available in mid and high power models

The XTL 2500 mobile radio is capable of operating in analog, digital, trunked and conventional modes and is offered in the following frenquency bands: 136-174 MHz 380-470 MHz, 450-520 MHz and 764-870 MHz frequency bands.

Make the right move for mission-critical

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Over 70 years of understanding the needs of government

In today's world you need a partner with experience and expertise. That is why Motorola has been a leading provider of interoperable communications for government agencies. Our experience, along with our skills, people, partnerships and alliances allow us to build innovative, fully integrated technologies; ensuring always available, always secure information to make critical decisions when and where they are needed. We are committed to bringing all of our knowledge and technical expertise together so that you can focus on your mission.

MOTOA4 Mission Critical Portfolio

The Motorola XTL™ 2500 Digital Portable Radio is part of the MOTOA4 Mission Critical portfolio of products—putting real-time information in the hands of federal personnel, providing better decisions for better outcomes It's 'Technology That's Second Nature™.





Motorola, inc



ASTRO® XTL™ 2500

Digital Tobile Padio

MODEL FEATURES

Frequency Bands

- 136-174 MHz
- 380-470 MHz
- 450-520 MHz
- 764-870 MHz

Power Levels

- 10-50 Watt (136-174 MHz)
- 10-40 Watt (380-470 MHz)
- 10-45 Watt (450-520 MHz)
- 10-35 Watt (764-870 MHz)
- 25-110 Watt (136-174 MHz)
- 25-110 Watt (380-470 MHz)

512 Channels (Standard)

Dual mode operation (ASTRO Digital and Analog)

9600 and 3600 Baud capable

Project 25 capability on Conventional and

Trunking systems

Type II Trunking Only

Project 25 compliance interoperable voice signaling features

Integrated voice and data capable

Bandwidth Receiver

- 12 5/25/30 kHz (analog) 136-174 MHz
- 12.5/25 kHz (analog) 380-470 MHz and 450-520 MHz
- 12 5/20/25 kHz (analog) 764-870 MHz

12 5 kHz bandwidth receiver (digital)

5 Programmable buttons x 4 deep in menu functions

14 digit character display

Tri-color Backlit LCD display

Emergency button

Multi level display dim button

Dash/Remote mount

Meets Military Specs 810 (C,D. E and F)

Utilizes Windows®-based customer software programming

Built in FLASHport™ support

Optional Keypad microphone

External Speaker

USB/RS232 connectivity

Optional Siren PA

Optional DEK

Upgradable

Encryption Capable:

- Type III (optional)
- Allows for MultiKey for single algorithms ONLY
- Algorithms supported:
 - DVI-XL
 - DVP-XL
 - DES
 - DES-XL
 - DES-OFB
- AES
- Advanced Digital Privacy (ADP)

Dual Control Head

OTAP (Over-the-air programming)

Tactical OTAR (Over-the-air re-keying)

Text Messaging

Motorola's XTL 2500 Project 25 compliant mobile radio is tough and well suited for users in Police, Fire, EMS, State/Local/Federal Government agencies. Taking into consideration your work environment and various job responsibilities, this robust mobile radio will support the type of consistent, high quality communication you need. The XTL 2500 digital mobile radio supports APCO

Project 25 and is available in 136-174 MHz,

380-470MHz, 450-520 MHz 764-870 MHz frequency bands and supports the accessories common to the XTL 5000 mobile radio.

The XTL 2500 digital mobile radio is specifically designed to meet the needs of your organization. When you want high performance, quality, and reliability in your daily communications, the XTL 2500 digital mobile radio is the radio of choice.



SPECIFICATION SHEET

ASTRO® XTL™ 2500 Digital Mobile Radio

GENERAL PERFORMANCE SPE	CIFICATIONS				
Frequency range	136-174 MHz 380-470 MHz 450-520 MHz 764-870 MHz				
Modulation	C4FM of QPSK-C family (Compatible 4-Level Freque	ency Modulation a	nd Compatible Quadrature Phase Shift Keying)		
Protocol Project 25-CAI	4 4 kbps IMBE 2 8 kbs Err Embedded Signaling	or Correction Codi	ing 2 4 kbps		
Channel Bandwidth					
Analog	12 5/25/30 kHz (136-174 M) 12 5/25 kHz (380-470 MHz 12 5/20/25 kHz (764-870 M	Hz and 450-520 MHz);			
Digital	12 5 kHz		ALALA MARINE		
VOICE CODER					
Voice Coding Method IMBE (CA) Improved Multi Band Excita	etion (IMBE)			
Voice Truncation	None	d			
Frame Re-sync Interval	180 mSec (Clear Digital Mo	ode)			
Forward Error Correction	Golay code				
Error Mitigation Project 25-CAI (
Dual Level	*	nd replaces 20 mSec voice frames that exceed			
	the error correction algorith Level 2: Progressive muting		e frames that are too		
	severely damaged for Leve				
Code Book Structure	APCO Project 25 (IMBE): N	lo code book			
SIGNALLING (ASTRO MODE)					
Signalling Rate	9.6 kbps	40.000 T	AND SAME		
Digital ID Capacity	10,000,000 Conventional /				
Digital Network Access Codes	4,096 network site address				
20.000	esses 4,096 network site address	3es	AMARIONA		
Project 25 – CAI Digital User Group Addresses	65,000 Conventional / 4,09	4 Trunking	and the second s		
Error Correction Techniques	Golay, BCH Reed-Solomor	n codes			
Data Access Control		frastructure-sourced data status bits embedded in			
	both voice and data transm	nissions	***************************************		
SPEAKER		MOBILE			
Dimensions 5 5 × 5 5 × 2 5 (139.7 × 139 7 × 1 (Excluding moun		Dimensions	Mid Power Radio Transceiver 2 ' x 7" x 7.8 ' (50.8 x 177.8 x 198.1 mm) Control Head		
Weight 15 lbs (0 68 kg)		-	2.35" x 7.1" x 2.5" (59 7 x 180 3 x 63 5 mm) Mid Power Radio Transceiver and Control Hea Dash Mount 2.35" x 7.1" x 9.1" (59 7 x 180 3 x 231.1 mm) High Power Transceiver 2.765' x 8.08" x 12.31" (70.2 x 205.2 x 312.7 mm)		
		Weight	Mid Power Radio Transceiver and Control Hea 6 1 lbs (2 77 kg) (764-870 MHz and 136-174 MHz 6 1 lbs (2 77 kg) (380-470 MHz and 450-520 MH High Power Radio Transceiver with Handle 8.8 lbs (3 99 kg) (136-174 MHz and 380-470 MHz		

SPECIFICATION SHEET

ASTRO® XTL™ 2500 Digital Mobile Radio

TRANSMITTER - TYPICAL PERFORMANCE SP	ECIFICATIONS			
Frequency	764-776 MHz 794-806 MHz 806-825 MHz 851-870 MHz	380-470 MHz (Range 1) and 450-520 MHz (Range 2)	136-174 MHz	
RF Power	10-30W (764-806 MHz) 10-35W (806-870 MHz)	10-45W (450-500 MHz) 10-40W (500-512 MHz) 10-25W (512-520 MHz)	10-50W or 25-110W	
Max Freq Separation	Full Bandsplit	Ref Above Bandsplit	Full Bandsplit	
Freq Stability Operating Freq Accuracy (-30°C to +60°C;+25°C Ref) - 700/800 & UHF (± 2 ppm (-30°C to +60°C) - VHF	15 ppm	2 ppm	2 ppm	
Modulation Limiting 25/20 kHz 25 kHz 25/30 kHz channel 12.5 kHz channel	±5 kHz +/-4 kHz (NPSPAC) ±5 kHz ±2 5 kHz ±2.5 kHz		±5 kHz ±2.5 kHz	
Modulation Fidelity (C4FM) 12.5 kHz digital channel	±2.8 kHz ±2.8 kHz		±2.8 kHz	
Channel Spacing Analog	12 5/20/25 kHz	12 5/25 kHz	12 5/25/30 kHz	
FM Hum and Noise 20/25 kHz. 25 kHz. 20/25 kHz 12.5 kHz	40 dB 34 dB	45 dB 40 d8	50 dB 40 dB	
Emissions (GNSS=Global Navigation Satellite System)	Conducted Radiated -85 dBc (GNSS) -40 dBm (GNSS)	Conducted Radiated -85 dBc -20 dBm	Conducted Radiated -85 dBc -20 dBm	
Audio Response (6 dB/Octave Pre-emphasis from 300 to 3000 Hz)	+1, -3 dB (EIA)	+1, -3 dB (EIA)	+1, -3 dB (EiA)	
Audio Distortion per EIA	2%	2%	2%	

Model Type	136-174 MHz		
* 1° °	380-470 MHz		
	450-520 MHz		
	764-870 MHz		
Minimum RF Power Output	10-50 Watt (136-174 MHz) 10-40 Watt (380-470 MHz) 10-45 Watt (450-520 MHz) 10-35 Watt (764-870 MHz) 25-110 Watt (136-174 MHz) 25-110 Watt (380-470 MHz)		
Operation	12V DC Negative Ground		
Standby at 13.8V			
136-174 MHz (10-50 Watt)	0 85A		
380-470 MHz (10-40 Watt)	0 85A		
450-520 MHz (10-45 Watt)	0 85A		
764-870 MHz (10-35 Watt)	0 85A		
136-174 MHz (25-110 Watt)	0 85A		
380-470 MHz (25-110 Watt)	0 85A		
Receive at Rate Audio at 13 8V			
136-174 MHz (10-50 Watt)	3 2A		
380-470 MHz (10-40 Watt)	3 2A		
450-520 MHz (10-45 Watt)	3 2A		
764-870 MHz (10-35 Watt)	3.2A		
136-174 MHz (25-110 Watt)	3 2A		
380-470 MHz (25-110 Watt)	3.2A		
Transmit Current (A) at Rated Pow	ver (W)		
136-174 MHz (10-50 Watt)	13A (50VV)		
380-470 MHz (10-40 Watt)	11A (40W)		
450-520 MHz (10-45 Watt)	11A (45W)		
764-870 MHz (10-35 Watt)	12A (35W)		
136-174 MHz (25-110 Watt)	20A (100W)		
380-470 MHz (25-110 Watt)	24A (100W)		

	Output	Transmitter	
Band	Power	Number	
136-174 MHz	10-50 W	AZ492FT3806	
380-470MHz	10-40 W	AZ492FT4862	
450-520 MHz	10-45W	AZ492FT4867	
764-870 MHz	10-35 W	AZ492FT5823	
136-174 MHz	25-110 W	AZ492FT3808	
380-470 MHz	25-110 W	AZ492FT4870	

ENVIRONMENTAL SPECIFICATIONS		
Operating Temperature	-30°C / +60°C	
Storage Temperature	-55°C / +85°C	
Ingress Protection	IP54 certified	

SPECIFICATION SHEET

MILITARY STANDARDS 810 C. D. E. & F.

ASTRO® XTL™ 2500 Digital Mobile Radio

Frequency	764-776 MHz 380-470 MHz (Range 1)		1Hz (Range 1)	136-174 MHz		
	794-806 MHz	94-806 MHz and				
	806-825 MHz 450-520 MHz (Range 2)		fHz (Range 2)			
	851-870 MHz					
Channel Spacing	12 5 / 20 / 25 kHz	12.5 / 25 kHz Full Bandsplit		12.5 / 25 / 30 kHz Full Bandsplit		
Maximum Frequency Separation	Full Bandsplit					
Analog Sensitivity		Pre-amp	Standard	Pre-Amp	Standard	
20 dB Quieting	30 μV	0 25 μV	0 40 µV	0 25 μV	0 40 μV	
12 dB SINAD per EIA	25 μV	0 20 μV	0 30 μV	0 20 µV	0.30 μV	
Digital Sensitivity						
1% BER (12 5 kHz channel)	30 μV	0 25 µV	0 40 μV	0 25 μV	0 40 µV	
5% BER (12.5 kHz channel)	25 μV	0 20 μV	0.30 μV	0 20 μV	0.30 µV	
Intermodulation Distortion	80 dB	80 d8	85 dB	80 dB	85 d8	
Spurious Response Rejection	90 dB	90 dB	90 dB	90 dB	90 dB	
Audio Output Power at 3% distortion	7.5 W (8 Ω ext speaker)	7.5 W (8 Ω ext speaker)		7.5 W (8 Ω ext speaker)		
(External/Internal Speaker)	13 W (3 2 Ω ext speaker)	13 W (3 2 Ω ext speaker)		13 W (3.2 Ω ext speaker)		
Adjacent Channel Rejection Selectivity (12.5 kHz/25 kHz)	65 dB / 80 dB	75 dB / 82 dB		70 dB / 90 dB		
Audio Response (6 dB/Octave De-emphasis					110.20	
from 300 to 3000 Hz)	+1, -3 dB (EIA)	+1, -3 dB (EIA) +13 dB		EIA)		

MILSTD 810C MIL-STD 810D MIL-STD 810E MIL-STD 810F Method Proc/Cat Method Proc./Cat Method Proc./Cat. Method Proc/Cat Low Pressure 500 1 500.2 ||500.3 11 500.4 Ш High Temperature Storage 5011 5012 I/A1 501.3 501.4 I/A1 I/Hot High Temperature Operational 5011 5012 II/A1 501.3 II/A1 501.4 l/Hot LowTemperature Storage 502 1 Τ 502 2 I/C3 502.3 I/C3 502.4 I/C3 Low Temperature Operational 502.1 502 2 II/C1 5023 II/C1 502.4 II/C1 Temperature Shock 503 1 503.2 I/A1-C3 503 3 I/A1-C3 503.4 I/Hot-C3 Solar Radiation 505 1 11 505 2 505.3 505.4 Rain Blowing 506 1 506 2 506.4 506.3 Rain Steady 506 1 II 506 2 11 506.3 11 506 4 Ш Humidity П 507.1 507.2 \parallel 507.3 11 507.4 Salt Fog 509 1 509 2 509 3 509.4 **Blowing Dust** 510 1 510.2 5103 510.4 **Blowing Sand** 5102 lí П 5103 510.4 R Vibration Minimum Integrity 5142 VIII/F, Curve-W 5143 1/10 514.4 1/10 514 5 1/24 Vibration Loose Cargo 5143 11/3 514.4 11/3 514.5 11/5 Shock Functional 516.2 5163 516.4 516.5



Shock Crash Hazard

Shock Bench Handling

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