

STATE OF CONNECTICUT

DEPARTMENT OF ADMINISTRATIVE SERVICES

PROCUREMENT DIVISION

165 Capitol Avenue, 5th Floor South
HARTFORD, CT 06106-1659

Kris H. Wohlgemuth
Contract Specialist
(860)713-5606
Telephone Number

CONTRACT AWARD NO.:
10ITZ0018
Contract Award Date:
3 August 2010
Bid Due Date:
2 June 2010
SUPPLEMENT DATE:
3 September 2013

CONTRACT AWARD SUPPLEMENT #12
IMPORTANT: THIS IS NOT A PURCHASE ORDER. DO NOT PRODUCE OR SHIP WITHOUT AN AGENCY PURCHASE ORDER.

DESCRIPTION: Two-Way Radio Communication Equipment and Services

FOR: All Using Agencies and Political Subs

TERM OF CONTRACT / DELIVERY DATE REQUIRED:
August 3, 2010 through August 2, 2014

AGENCY REQUISITION NUMBER: 0000001201

CHANGE TO IN STATE (NON-SB) CONTRACT VALUE	CHANGE TO DAS-CERTIFIED SMALL BUSINESS CONTRACT VALUE	CHANGE TO OUT OF STATE CONTRACT VALUE	CHANGE TO TOTAL CONTRACT AWARD VALUE

NOTICE TO CONTRACTORS: This notice is not an order to ship. Purchase Orders against contracts will be furnished by the using agency or agencies on whose behalf the contract is made.

INVOICE SHALL BE RENDERED DIRECT TO THE ORDERING AGENCY.

NOTE: Dollar amounts listed next to each contractor are possible award amounts, however, they do not reflect any expected purchase amounts (actual or implied). They are for CHRO use only.

NOTICE TO AGENCIES: A complete explanatory report shall be furnished promptly to the Procurement Manager concerning items delivered and/or services rendered on orders placed against awards listed herein which are found not to comply with the specifications or which are otherwise unsatisfactory from the agency's viewpoint, as well as failure of the contractor to deliver within a reasonable period of time specified. Please issue orders and process invoices promptly.

CASH DISCOUNTS: Cash discounts, if any, shall be given SPECIAL ATTENTION, but such cash discount shall not be taken unless payment is made within the discount period.

PRICE BASIS: Unless otherwise noted, prices include delivery and transportation charges fully prepaid f.o.b. agency. No extra charge is to be made for packing or packages.

CONTRACTOR INFORMATION:

REFER TO THE CONTRACT ON THE DAS PROCUREMENT WEB PAGE FOR THE MOST CURRENT CONTRACTOR INFORMATION. (<http://das.ct.gov/mp1.aspx?page=8>)

Catalog and Price List Updates for:

Utility Communications, Inc

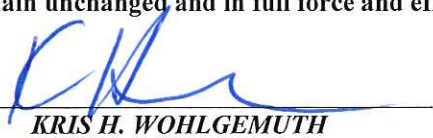
- Motorola List Price - 8/1/2013

EFJohnson Technologies, Inc.

- Add Viking VP900 and VP900 Multi-Band (20%) - Attached

NOTE: All terms and conditions not otherwise affected by this supplement remain unchanged and in full force and effect.

APPROVED



KRIS H. WOHLGEMUTH

Contract Specialist

(Original Signature on Document in Procurement Files)



EFJohnson's Viking™ Solution portfolio offers products catering to mission critical communication systems. Viking P25 subscribers offer a broad set of capabilities to fully meet the communication needs of our customer networks with interoperability, reliability, and maximum flexibility.

Viking™ VP900 Price List



To Make a Model String.... select radio and options, enter numbers in boxes (*worksheet on last page*)

1				2			3	4	5		6	7							
V	P	9																	
Portable 5-Digit Model #				Antenna #			Battery #	Housing #	Protocol #		System Option #	Enter up to Four 2-Digit Software Control Options in Numerical Order. List Only Requested Options.							

1 Select One Portable Base Model

	List Price
VP941 700/800, 762-806 MHz and VHF, 136-174 MHz Model I	2,500
VP943 700/800, 762-806 MHz and VHF, 136-174 MHz Model III	2,900

2 Select an Antenna

A	700/800 MHz, VHF Multi-Band	N/C
B	700/800 MHz, VHF Multi-Band (GPS)	65

3 Select a Battery

0	No Battery (credit)	\$ - 40
5	Li-Ion Ultra-High Capacity Battery Pack, Immersion	N/C

4 Select a Housing

3	Standard Black Housing	N/C
4	High Visibility Color Housing	200

Viking VP900 Price List *cont.*

5 Select the Protocol

1	Analog FM	\$ N/C
2	P25 Phase I (includes Single Key DES-OFB).....	200

6 Select the System Option

0	Conventional System	\$ 350
1	SMARTNET® II Trunking (includes system option 0).....	625
2	SmartZone® Trunking (includes system options 0 & 1).....	725
3	SmartZone® Trunking and Project 25 Trunking (includes system options 0, 1 & 2)	850
5	Project 25 Only Trunking (includes system option 0)	475

7 Select Optional Software Control Features *(may select up to four options)*

Channels/Talkgroups *(choose one)*

86	2048 Channels/Talkgroups (standard)	N/C
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Encryption *(optional, choose one)*

05	AES Encryption (multi-key)	\$ 475
06	DES-OFB Encryption (multi-key)	550
07	Single Key AES	150
08	DES-OFB/AES Encryption (multi-key)	750

Programming & Data

11	Project 25 OTAR Conventional & Trunking (requires protocol option 2)	\$ 750
13	Project 25 Data Conventional (requires protocol option 2)	140
14	Project 25 Data Trunking (includes conventional data; requires protocol option 2 & system option 3 or 5)	200
31	Hardware System Key Only	N/C
50	Zone Fail-Site Lock (requires system option 2 or 3)	165
60	MDC1200/GE-Star Signaling	50
70	Over-the-Air-Programming (OTAP)	200
91	Nextel Rebanding Option (Nextel radios only)	N/C
92	Rebanding Option (non-Nextel radios)	110
40	FIRESafe First Responder	250
41	FIRESafe Commander	350
75	Enable Internal GPS (requires P25 data option 13 or 14).....	100

Viking VP900 Price List *cont.*

Enter & add prices here

Portable Base Model	\$
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Antenna	\$
----------------	----

Battery	\$
----------------	----

Housing	\$
----------------	----

Protocol	\$
-----------------	----

System Option	\$
----------------------	----

Software Options	\$
-------------------------	----

①	②	③	④	⑤	⑥	⑦	
V	P	9					
Portable 5-Digit Model #		Antenna #	Battery #	Housing #	Protocol #	System Option #	Enter up to Four 2-Digit Software Control Options in Numerical Order. List Only Requested Options.

⑧ Enter Prices & Total

Viking VP900 Portable Radio Model, Antenna, Battery, Housing, Protocol, and System Option Price	\$
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Total of Software Control Option Prices (up to four) <i>Volume pricing may be available. Contact your account manager for information.</i>	\$
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TOTAL PRICE	\$
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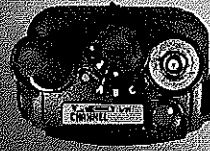


EFJohnson's Viking™ portfolio offers products catering to mission critical communication systems. Viking P25 subscribers offer a broad set of capabilities to fully meet the communication needs of our customer networks with interoperability, reliability, and maximum flexibility.

Viking™ VP900 Multi-Band

7/800 MHz | VHF

The VP900 portable offers smarter visual and audio features that make first responder communications effortless, while enhancing interoperability through Multi-Band operation.



EFJohnson's Viking VP900 Multi-Band radio establishes a new benchmark with best in class ruggedness, reliability, and superior audio. The Viking VP900 is a multi-band, multi-protocol, P25 Phase 2 ready radio equipped with industry leading audio, display, and advanced feature capabilities that meet the needs of police, fire, EMS, and other mission critical users.

EASY TO OPERATE

- Top display that maximizes viewing while in holster
- Backlit keypad and displays with controllable settings to increase visibility in all lighting conditions
- Equipped with multiple visual indicators including battery level and signal strength to check status at a glance
- Ergonomic knobs for easier operation with gloves

RUGGED & RELIABLE

- Meets MIL Standard 810 G specs
- Immersion rated (IP67) Standard
(waterproof in 1 meter of water up to 30 minutes)
- Dual Shield design (internal metal housing and an external polycarbonate casing for exceptional durability)

SUPERIOR AUDIO QUALITY

- High performance speaker capable of 2.5W audio *(1W rated)* for loud and clear sound across various noise environments
- Industry's best noise cancelling; does not require directional adjustment or software changes for different noise environments
- State of the art AMBE+2 version 1.6 vocoder using TIA's latest standards

P25 COMPLIANT

- Supports P25 CAI (Common Air Interface, Phase I & Phase II)
- Trunked and conventional system protocols
- Over-the-Air rekeying (OTAR) functionality

ADVANCED FEATURES

- Programmable soft keys
- Up to 2048 channels
- Text messaging
- Industry-standard encryption capabilities such as AES and DES-OFB *(Single key DES-OFB included)*
- Voice announcement
- Armada™ programming software provides fleet management of radios as well as profile templates
- Enhanced radio security using software and hardware system keys
- Over-the-Air programming (OTAP) option enables you to program radios in the field *(Works with any P25 data compliant network)*
- Integrated GPS

MULTI-PROTOCOL/MULTI-MODE CAPABILITY

- Compatible with Motorola® System v 7.x, Motorola Astro® and SMARTNET® II/SmartZone®
- MDC-1200 and GE-Star signaling
- Channel selection (as opposed to zone selection available for different protocol/system selection)

ACCESSORY SUITE

- Complete line of accessories including speaker mics, cases, batteries, antennas, and chargers



MADE IN U.S.A.

www.efjohnson.com



TYPICAL PERFORMANCE SPECIFICATIONS

Viking VP900 Multi-Band 7/800 MHz | VHF

GENERAL	700/800	VHF
Frequency Range	763-805 MHz 806-869 MHz	136-174 MHz
Channel Spacing	12.5 kHz, 25 kHz ¹	
Max Frequency Separation	Full Bandsplit	
FCC Type Acceptance Certification	ATH2425780 (Pending)	
Canada Type Certification	IC:933B-2425780 (Pending)	
FCC Emissions Designators	16K0F3E, 14K0F3E, 11K0F3E, 8K10F1D, 8K10F1E	11K0F3E, 8K10F1D, 8K10F1E
Input Voltage	7.4V	
Dimensions (w/o antenna) HxWxD	7.5" x 2.62" x 1.75"	
Weight (w/o standard battery)	12.2 oz	
Case	Polycarbonate-black	
Temperature Range	-30°C to +60°C	
Vocoder/Noise Cancellation	AMBE+2 version 1.6 AMBE+2 noise cancellation and audio enhancement	
Programmable Front Display	Backlit LCD Status Bar (time, date, signal strength, battery level), icon or text display options Up to 5 rows of 12 character lines	
Programmable Top Display	Backlit LCD Status Bar (time, date, signal strength, battery level) or text display options Up to 2 rows of 12 character lines	

Transmitter	700/800	VHF
RF Power Output	2.5/3 W	5 W
Frequency Stability (-30°C to +60°C)	1.5 ppm	
Modulation Limiting 25 kHz Channels	5 kHz ²	
Modulation Limiting 12.5 kHz Channels	2.5 kHz	
Emissions (Conducted/Radiated)	75 dBc	
Audio Response	+1, -3 dB	
FM Hum and Noise 25 kHz Channels	45 dB ¹	
FM Hum and Noise 12.5 kHz Channels	39 dB	
Audio Distortion	3%	

Receiver	700/800	VHF
Audio Power Output	1 W rated	
Frequency Stability (-30°C to +60°C)	1.5 ppm	
Analog Mode Sensitivity: 12 dB SINAD	-119 dBm	
Digital Mode Sensitivity: 5% BER	-119 dBm	
Selectivity: 25 kHz Channels	75 dB ¹	
Selectivity: 12.5 kHz Channels	60 dB	
Intermodulation	75 dB	
Spurious & Image Rejection	80 dB	
FM Hum and Noise 25 kHz Channels	40 dB ¹	
FM Hum and Noise 12.5 kHz Channels	34 dB	
Audio Distortion	3%	

Note 1: 25 kHz mode is not available in US FCC frequencies in 700 MHz, UHF or VHF.

Battery	Dimensions (HxWxD)	Weight	Approx. Life (5/5/90)
High Capacity Lithium Ion (3780 mA hours nominal)	6.5" x 2.3" x .78"	8.1 oz	10 hours

Specifications are measured per TIA 102.CAAA-C, TIA 102.CAAB-C and per TIA 603-D. All EFJohnson radios are made in the U.S.A.

Environmental Specifications



Environment	Mil Spec	810G
	M	P
Low Pressure	500.5	II
High Temp.	501.5	II
Low Temp.	502.5	II
Temp. Shock	503.5	I-D
Solar Radiation	505.5	I
Rain/Blown Rain	506.5	I
Humidity	507.5	I
Salt Fog	509.5	NA
Dust and Sand	510.5	I
Vibration	514.6	I
Shock	516.6	VI, V
Immersion	512.5	I

M=Method, P=Procedure
Also meets equivalent superseded C, D, E, and F standards.
Immersion meets IEC 529 IP67

Encryption Options



Supported Encryption	AES, DES-OFB
Encryption Key/Radio	126 Common Key Reference (CKR), 126 Physical Identifier (PID), Compatible w/ Motorola Key Variable Loader
Encryption Frame Re-sync Interval	P25 CAI 360 MSEC
Encryption Keying	External Key Loader, OTAR
Mode	OFB-Output Feedback
Encryption Type	Digital
Key Erasure	Keyboard Command
Standards	FIPS 46-3, FIPS 81, FIPS 140-2, FIPS 197

All specifications are subject to change without notice. Please check our website for the latest revision. 1.16.13 © Copyright 2013 EFJohnson

1440 Corporate Drive, Irving, TX 75038-2401 • www.efjohnson.com
Phone: 972.819.0700 • Toll Free: 1.800.328.3911 • Fax: 972.819.2307

