

## MRX HEADQUARTERS SYSTEM

### ➤ FEATURES AT A GLANCE



- Easy to use
- Data capable
  - Email
  - Codan Chat Messaging
- GPS Tracking
  - Motorola Motolocator Support
- Legacy system interoperability
- 125 W standard
- 500 / 1000 W system options
- MIL-STD-141B ALE (JITC Certified) and FED-STD-1045 ALE/CALM™
- MIL-STD-810F deployable system
- AC supply
- IP remote control
- COMSEC solution
  - CES 128-bit
  - AES 256-bit

The MRX Headquarters System is a fully ruggedised (MIL-STD-810F) field deployable Headquarters System, supporting voice, data and an array of encryption options.

### QUICK TO INSTALL

Providing a deployable backbone communication system, the MRX can be quickly installed and interconnected with local infrastructure.

Housed in a 19 inch shock-mounted rack available in 125, 500 or 1000 W systems, the transit case provides shock and vibration protection during transportation.

### FULL SPECTRUM COMMUNICATIONS

When combined with a MRX-I Interoperability System, which supports real-time “drag and drop” configuration of individual and multiple communication links, the MRX-I Interoperability System enables the MRX to interface with PBXs / PSTN lines, VOIP, LANs (data support) and other radio assets. This capability provides full spectrum communications support to ground operators through HF, VHF, UHF and Satellite systems.



## SPECIFICATIONS

### GENERAL

|                     |   |
|---------------------|---|
| Frequency range     | 1.6 to 30 MHz transmit, 250 kHz to 30 MHz receive |
| Power rating        | 125, 500 or 1000 W PEP systems available          |
| Channel capacity    | NGT™ ASR: 600 channels                            |
| Operating mode      | J3E, USB, LSB, AM                                 |
| RF output impedance | 50 Ω  |

### MECHANICAL

|                              |  |  |
|------------------------------|--|--|
| Temperature rating           | -10°C to 60°C, 95% humidity  |  |
| AC operating range           | 100 to 240 V AC ±10% 50 / 60 Hz  |  |
| Protection                   | Open Circuit, short circuit, over voltage, over temperature, voltage transients, high VSWR |  |
| MIL-STD 810F                 | Transceiver meets Dust, Shock and Vibration  |  |
| Dimensions                   |  |  |
| 125 W Radio Case             | Deployed: 680 mm x 690 mm x 410 mm (Transit: 950 mm x 690 mm x 430 mm)                     |  |
| 500 / 1000 W Power Amp Cases | Deployed: 680 mm x 690 mm x 490 mm (Transit: 950 mm x 690 mm x 490 mm)                     |  |
| Power Supply (PSU) Cases     | Deployed: 680 mm x 690 mm x 490 mm (Transit: 950 mm x 690 mm x 490 mm)                     |  |
| Weight (transit)             | 125 W:   | 48 kg (105.82 lbs) (with radio, modem, console, PSU) |
|                              | 500 W Power Amp:   | 52 kg (114.64 lbs)                                   |
|                              | 500 W PSU:   | 43 kg (94.8 lbs)                                     |
|                              | 1000 W Power Amp:  | 60 kg (132.28 lbs)                                   |
|                              | 1000 W PSU:  | 46 kg (101.41 lbs)                                   |

### SYSTEM OPTIONS

|              |  |
|--------------|--|
| 15-00219-001 | 125 W MRX Headquarters System (case only)*         |
| 15-00220-001 | 500 / 1000 W MRX Headquarters System (cases only)* |
|              | MRX-I Interoperability System                      |

\* All transceivers and accessories ordered separately

### OPTIONS

|              |  |
|--------------|--|
| Encryption   | CES 128-bit Encryptor, AES 256-bit Encryptor & MELPe 1200 / 2400 bps digital voice |
| ALE          | MIL-STD-141B ALE (JITC Certified), FED-STD-1045 ALE / CALM™                        |
| Email        | UUPlus™ supports COTS email clients  |
| GPS tracking | Internav™ CHF GPS tracking software  |
| Modems       | 3212, 3012   |

### ANTENNAS

|                     |  |
|---------------------|--|
| Tactical deployment | Tuned Dipole Antenna, 125 W<br>Semi-delta, Full-delta<br>Multi-wire Broadband Dipole |
|---------------------|--|



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Values noted are typical. Equipment descriptions and specifications subject to change without notice or obligation.

## RADIO COMMUNICATIONS

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