



Digital Migration Radio

MD622 SERIES



- Analog & Digital Dual Modes
- Clear Voice
- Remote Control Head
- GPS and Bluetooth Option



PROFESSIONAL AND SIMPLE TO USE



A&D Auto Detect

Compatible with analog conventional and digital conventional modes. Allow MD622i to simultaneously monitor analog and digital modes and automatically respond in each mode. It is an easy way for migration to digital from analog.



ENLARGE TALKING RANGE

With a high RF power output up to 50W, MD622i can dramatically enlarge your communication range.



GPS POSITIONING (Optional)

With an external GPS module and GPS antenna, MD622i can upload its real-time position to AVL applications.



REMOTE CONTROL HEAD(Coming soon)

Remote control head kit reduces your concerns of installation, and offers you a flexible solution for various vehicle types.



ANALOG SIGNALING

Support DTMF and HDC1200 for PTT ID and Emergency Call.



DATA SERVICES

MD622i supports data capabilities, such as call alias, contacts, history, text message.



RELIABLE AND DURABLE

MD622i is compliant with MIL-STD-810 C/D/E/F/G and IP54.



PSEUDO TRUNK

Several talk groups share the same frequency, and each one of them can dynamically choose to use one of the slots to talk. This is a two-slot-trunked mode. While time-slot 1 is busy, MD622i will use time-slot 2 to transmit.



RADIO REGISTRATION SERVICE

RRS allows MD622i working in Smart Dispatch and SmartOne Dispatch, for online/offline presence.



SUPPLEMENTARY FEATURES (Optional)

MD622i supports radio Enable/Disable, Remoter Monitor and Priority Interrupt.



EMERGENCY ALARM/CALL

Use the orange emergency button to initiate an emergency alarm and call to other radios.



BUILT-IN BLUETOOTH (Factory Optional)

Built-in Bluetooth supports MD622i to have wireless audio accessories and external PTT device connected.



PRIVACY

Basic end-to-end Encryption secures your voice and data transmission.



ROAMING

It allows MD622i to be used in a large multi-site network.

TARGET MARKETS



Taxi



Agriculture



Truck



Delivery



School Bus



Ambulance

ACCESSORIES

Diverse accessories for specific tasks

STANDARD



Pictures above are for reference only and may vary from actual products.

SPECIFICATIONS

| GENERAL | | | |
|---------------------|---|-------------|-----|
| Frequency Range | UHF: 400-470MHz; VHF: 136-174MHz | | |
| Channel Capacity | 256 (16 channels per zone) | | |
| Zone Capacity | 16 | | |
| Channel spacing | 12.5 / 25 KHz | | |
| Operating Voltage | 13.6 V ±15% | | |
| Current Drain | Standby | around 0.3A | |
| | Receive | < 1 A | |
| | Transmit | 1W | <3A |
| | | 25W | <8A |
| 5W | | <5A | |
| | 45W | <12A | |
| Weight | 1100g | | |
| Dimensions | 164 X 43 X 150 mm | | |
| Frequency Stability | ±0.5 ppm | | |
| Antenna Impedance | 50Ω | | |
| LCD Display | 128*64 pixels, monochrome, 1.5 inch, 2 rows | | |

| RECEIVER | | |
|-----------------------------|-------------------------|---|
| Sensitivity | Analog | 0.3μV (12dB SINAD); 0.22μV (Typical) (12dB SINAD); 0.4μV (20dB SINAD) |
| | Digital | 0.3μV /BER5% |
| Selectivity | TIA-603 | 60dB @ 12.5KHz / 70dB @ 25KHz [†] |
| | ETSI | 60dB @ 12.5KHz / 70dB @ 25KHz [†] |
| Intermodulation | TIA-603 | 70dB @ 12.5/25KHz [†] |
| | ETSI | 65dB @ 12.5/25KHz [†] |
| Spurious Response Rejection | TIA-603 | 70dB @ 12.5/25KHz [†] |
| | ETSI | 70dB @ 12.5/25KHz |
| Blocking | TIA-603 | 90dB |
| | ETSI | 84dB |
| Hum and Noise | | 40dB @ 12.5KHz 45dB @ 25KHz [†] |
| Rated Audio Power Output | Internal (@16 ohm load) | 4W |
| | External (@8 ohm load) | 8W |
| Max Audio Power Output | Internal (@16 ohm load) | 6W |
| | External (@8 ohm load) | 12W |
| Rated Audio Distortion | | ≤3% |
| Audio Response | | +1 ~ -3dB |
| Conducted Spurious Emission | | <-57dBm |

| TRANSMITTER | |
|-----------------------------|---|
| RF Power Output | Low power version: 1-25W (UHF/VHF) High power version: 5-45W(UHF) / 5-50W(VHF) |
| FM Modulation | 11K0F3E @ 12.5KHz; 16K0F3E @ 25KHz [†] |
| 4FSK Digital Modulation | 12.5KHz Data Only: 7K60FXD 12.5KHz Data & Voice: 7K60FXW |
| Conducted/Radiated Emission | -36dBm<1GHz; -30dBm>1GHz |
| Modulation Limiting | ±2.5KHz @ 12.5KHz ±5.0KHz @ 25KHz [†] |
| FM Hum & Noise | 40dB @ 12.5KHz 45dB @ 25KHz [†] |
| Adjacent Channel Power | 60dB @ 12.5KHz; 70dB @ 25KHz [†] |
| Audio Response | +1 ~ -3dB |
| Audio Distortion | ≤3% |
| Digital Vocoder Type | AMBE+2™ |
| Digital Protocol | ETSI-TS102 361-1,-2,-3 |

| ENVIRONMENTAL | |
|----------------------------|--|
| Operating Temperature | -30°C ~ +60°C |
| Storage Temperature | -40°C ~ +85°C |
| ESD | IEC 61000-4-2 (Level 4) ±8kV (Contact) ±15kV (Air) |
| American Military Standard | MIL-STD-810 G |
| Dustproof & Waterproof | IP54 Standard |
| Humidity | MIL-STD-810 G Standard |
| Shock & Vibration | MIL-STD-810 G Standard |

[†]20KHz/25KHz will not be available on new equipment in the U.S. after 2011-01-01.
All specifications are subject to change without notice due to continuous development.



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