zenitel

DATASHEET



MDM28QNN9VA2AN

DM4600e UHF Fixed Radio

Digital Mobile Radio

- 1000 channel capacity
- 403-470 MHz
- IP54 Rated
- Bluetooth Audio and Data
- Work Order Ticketing
- Multi-constellation GNSS for outdoor location tracking

Description

The DM4600e UHF Fixed Radio designed for the skilled professional who refuses to compromise. With high performance integrated voice and data, and advanced features for efficient operation, these next-generation radios deliver complete connectivity.

The DM4600e UHF Fixed Radio supports text messaging and work order ticketing to simplify complex communications, and its data capabilities support advanced applications. The radio features a high power audio amplifier which delivers loud, clear speech, with background noise cancellation for better intelligibility.

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Specifications

GENERAL

Dimensions (HxWxD)	53 x 176 x 206 mm
Weight	1.8 kg
Channel Spacing	12.5, 202, 25 kHz
Channel Capacity	1000

TRANSMITTER SPECIFICATIONS

4FSK Digital Modulation	12.5 kHz Data: 7K60F1D and 7K60FXD, 12.5 kHz Voice: 7K60F1E and 7K60FXE, Combination of 12.5 kHz Voice and Data: 7K60F1W
Digital Protocol	TSI TS 102 361-1, -2, -3
Conducted/Radiated Emissions (TIA603D)	-36 dBm < 1GHz, -30 dBm > 1GHz
Adjacent Channel Power	60dB (12.5 kHz) 70dB (202 / 25 kHz)
Frequency Stability	± 0.5 ppm

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RECEIVER SPECIFICATIONS

Analogue Sensitivity (12dB SINAD)	0.18 uV
Digital Sensitivity (5% BER)	0.16 uV
Intermodulation (TIA603D)	70 dB
Adjacent Channel Selectivity, (TIA603A)-1T	60 dB (12.5 kHz) 70 dB (202 / 25 kHz)
Adjacent Channel Selectivity, (TIA603D)-2T	45 dB (12.5 kHz) 70 dB (202 / 25 kHz)
Spurious Rejection (TIA603D)	70 dB

AUDIO SPECIFICATIONS

Digital Vocoder Type	AMBE+2™
Audio Response	TIA603D
Rated Audio	3 W (internal speaker) 7.5 W (external 8 ohm speaker) 13 W (external 4 ohm speaker)
Audio Distortion at Rated Audio	3%
Hum and Noise	40 dB (12.5 kHz) -45 dB (202 / 25 kHz)
Conducted Spurious Emissions (TIA603D)	-57 dBm

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BLUETOOTH SPECIFICATIONS

Version	4.0
Range	Class 2, 10 m
Supported profiles	Bluetooth Headset Profile (HSP), Serial Port Profile (SPP), Motorola fast push-to-talk.
Simultaneous Connections	1 x audio accessory and 1 x data device
Permanent Discoverable Mode	Optional

GNSS SPECIFICATIONS

Constellation Support	GPS, GLONASS
Time To First Fix, Cold Start	< 60 s
Time To First Fix, Hot Start	< 10 s
Horizontal Accuracy	< 5 m

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-30 °C to +60 °C
Storage Temperature	-40 °C to +85 °C
Electrostatic Discharge	IEC 61000-4-2 Level 4
Dust and Water Intrusion	IEC 60529 - IP54
Packaging Test	MIL-STD 810C, D, E, F and G

WI-FI SPECIFICATIONS

Standards Supported	IEEE 802.11b, 802.11g, 802.11n
Security Protocol Supported	WPA, WPA-2, WEP

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