

MDM28QNC9VA2AN

## DM4400e UHF Fixed Radio

Digital Mobile Radio



- ✓ 32 Channels
- ✓ IP54 rated
- ✓ Bluetooth 4.0
- ✓ 4 Programmable Buttons
- ✓ 2-digit numerical display
- ✓ Indoor location tracking
- ✓ Multi-constellation GNSS for increased location accuracy

### Description

The DM4400e 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.

### DM4400e UHF Fixed Radio

The DM4400e 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.

# Specifications

## GENERAL

Dimensions (HxWxD)	53 x 176 x 206 mm
Weight	1.8 kg
Channel Spacing	12.5, 202, 25 kHz
Channel Capacity	32

## 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	ETSI 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

## 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

## 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

## WIFI SPECIFICATIONS

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Standards Supported	IEEE 802.11b, 802.11g, 802.11n
Security Protocol Supported	WPA, WPA-2, WEP
Maximum Number of SSIDs	128 (64 for Numeric Models)

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## ENVIRONMENTAL SPECIFICATIONS

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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

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