zenitel

DATASHEET



MDM28xxx

DM4401e UHF Fixed Radio

Motorola MOTOTRBO Digital Mobile Radio

- 99 channels with 2-digit numeric display
- Analogue and digital DMR communication
- Integrated GNSS supporting GPS and GLONASS
- Bluetooth 4.0 for wireless audio and data
- Integrated Wi-Fi for over-the-air software updates
- IP54-rated protection against dust and water ingress
- Intelligent Audio with background noise cancellation

Description

The Motorola MOTOTRBO DM4401e is a digital fixed radio designed for reliable voice and data communication. With integrated GNSS, Bluetooth and Wi-Fi, it supports efficient team coordination, location tracking and communication management in demanding operational environments.

DM4401e UHF Fixed Radio

The Motorola MOTOTRBO DM4401e is a professional digital mobile radio supporting both analogue and digital communication. Designed for fixed installations, it combines dependable voice communication with integrated connectivity and location tracking capabilities.

The DM4401e features a 2-digit numeric display, 99 channels and four programmable buttons for straightforward operation. Intelligent Audio automatically adjusts the radio volume to changing background noise levels, while noise cancellation and IMPRES audio technology help maintain clear and intelligible communication.

Integrated GNSS with GPS and GLONASS enables outdoor location tracking, while Bluetooth 4.0 supports compatible

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wireless audio accessories and data connections. Built-in Wi-Fi provides over-the-air software update capabilities, simplifying radio management and maintenance.

With IP54-rated protection and a rugged design tested against MIL-STD 810 standards, the DM4401e is suited to demanding working environments. Its support for conventional DMR communication and compatible networked radio systems makes it a flexible choice for professional voice communication installations.

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Specifications

GENERAL

Radio type	Digital mobile / fixed radio
Frequency range, UHF Band 1	403–470 MHz
High power output	25–45 W
Low power output	1–25 W
Channel capacity	99
Channel spacing	12.5, 20, 25 kHz
Display	2-digit numeric
Dimensions (H × W × D)	53 × 175 × 206 mm
Weight	1.8 kg
Nominal power supply	12 V DC
Programmable buttons	4

AUDIO AND RECEIVER

Digital vocoder	AMBE+2™
Rated internal audio	3 W
External audio, 8 ohm	7.5 W
External audio, 4 ohm	13 W
Analogue sensitivity (12 dB SINAD)	0.18 µV
Digital sensitivity (5% BER)	0.16 µV
Audio distortion at rated audio	3%
Frequency stability	±0.5 ppm

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CONNECTIVITY AND LOCATION

Bluetooth	Version 4.0
Bluetooth range	Class 2, 10 m
GNSS	GPS, GLONASS
GNSS horizontal accuracy	Less than 5 m
GNSS cold start	Less than 60 seconds
GNSS hot start	Less than 10 seconds
Wi-Fi	IEEE 802.11b/g/n
Wi-Fi security	WPA, WPA2, WEP
Supported SSIDs, numeric model	64

ENVIRONMENTAL

Dust and water protection	IEC 60529 – IP54
Operating temperature	–30°C to +60°C
Storage temperature	–40°C to +85°C
Electrostatic discharge	IEC 61000-4-2 Level 4
Military standards	MIL-STD 810C, D, E, F, G and H

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