MOTOTRBO[™] DM4000e SERIES

YOU'RE COMPLETELY CONNECTED.



The DM4000e Series is 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 to your organisation.

CONNECTED

The MOTOTRBO DM4000e Series is a family of ETSI DMR Standards compliant digital radios that delivers operation critical voice and data communications. Bluetooth® audio lets you talk without wires, integrated Wi-Fi® enables remote software updates, while indoor and outdoor location-tracking capabilities give you total visibility of your resources. With support for trunking as well as legacy analogue technology, you can keep your organisation connected as it grows.

SAFE

Safeguard your staff with responsive push-to-talk technology. The quick access buttons on DM4000e Series radios can summon help with one touch, using Transmit Interrupt to clear a channel when necessary. A range of safe driving accessories allow your workers to communicate hands-free, and Text-to-Speech technology helps your drivers keep their eyes on the road.

PRODUCTIVE

Text messaging and Work Order Ticketing simplify complex communications, and data capabilities support advanced applications. Featuring a high power audio amplifier, these radios deliver loud, clear speech, with background noise cancellation for better intelligibility. DM4000e Series radios are also ideal as a dispatcher solution, with desktop microphones and a rugged, durable design for everyday use.

NEXT GENERATION FEATURES

- Bluetooth 4.0
- · Indoor location tracking
- Multi-constellation GNSS for increased location accuracy
- Intergrated Wi-Fi
- Over-the-air software updates





LONG RANGE WIRELESS MOBILE MICROPHONE

Designed for customers who depend on their high power mobile radio but must work outside of their vehicle, the Long Range Wireless Mobile Microphone keeps you connected and communicating up to 100m (330 ft) from your vehicle. With instant touch pairing and in-vehicle charging cradles, you can maintain critical communications even on remote job sites.



HANDHELD CONTROL HEAD

When space is tight, and you need the flexibility to operate your radio from anywhere in the vehicle, opt for the Handheld Control Head. Its colour screen, full keypad and extendable cord gives you complete control within 8 m of the radio.



BLUETOOTH AUDIO

Improve the mobility of your work teams without wires getting tangled. Your delivery driver can sort through packages on the back of the delivery truck, your bus driver can check students in the back of the bus, and your limousine driver can open the door for their passengers and stay connected.



CONNECT AND COORDINATE EFFORTLESSLY

IMPRES[®] Smart Audio accessories communicate with the radio to suppress ambient noise, improve voice intelligibility and amplify loudness. Choose from a range of standard and heavy duty microphones, with or without keypads and navigation buttons.



INTERACT SAFELY WITHOUT DISTRACTIONS

To help your drivers keep their eyes on the road, you can customise your installation with the IMPRES Visor Microphone and Remote Push-to-Talk.







		Numeric Model				Alphanumeric Model				
Model Number	DM4401e / DM4400e ¹				DM4601e / DM4600e ¹					
Band	VHF	300MHz	UHF Band 1	UHF Band 2	VHF	300MHz	UHF Band 1	UHF Band 2		
GENERAL SPECIFICATION	NS									
Frequency	136-174 MHz	300-360 MHz,	403-470 MHz	450-527 MHz	136-174 MHz	300-360 MHz,	403-470 MHz	450-527 MHz		
Low Power Output	1-25 W	-	1-25 W	-	1-25 W	-	1-25 W	-		
High Power Output	25-45 W	1-40 W	25-40 W	1-40 W	25-45 W	1-40W	25-40 W	1-40W		
Channel Spacing	12.5, 20°, 25 kHz									
Channel Capacity	99				1000					
Dimensions (H x W x D)	53 x 175 x 206 mm									
Weight	1.8 kg									
Power Supply (Nominal)	12 V									
Max Current Drain, Standby	0.8 A									
Max Current Drain, Receive	2 A									
Transmit Current Draw, Low Power	11 A	-	11 A	-	11 A	-	11 A	-		
Transmit Current Draw, High Power	14.5 A	14.5 A	14.5 A	12 A	14.5 A	14.5 A	14.5 A	12 A		

CONNECTION

- · VHF Band, 45 W
- 300MHz Band, 40 W
- · UHF Band, 40 W
- · Alphanumeric Model: Colour Screen, 1000 Channels
- Numeric Model: Numeric Display, 99 Channels
- Analogue and Digital
- · Voice and Data
- o Integrated Wi-Fi
- · Canned Text Messaging
- Freeform Text Messaging (Requires Keypad Mic)
- Work Order Ticketing
- Multi-Constellation GNSS for outdoor location tracking
- High Efficiency GNSS
- · Event-Driven Location Update
- Bluetooth Audio
- Bluetooth Data
- o Bluetooth Permanent Discoverable Mode

- o Bluetooth Indoor Location Tracking
- Voice Announcement
- · Text to Speech
- o Option Board
- Home Channel Reminder

AUDIO

- · Intelligent Audio
- IMPRES Audio
- SINC+ Noise Cancellation
- Acoustic Feedback Suppressor
- Microphone Distortion Control
- User-Selectable Audio Profiles
- · Trill Enhancement

PERSONALISATION

- Wide Range of Accessories
- 4 Programmable Buttons

MANAGEMENT

- · Radio Management
- Over-the-Air Programming
- o Over-the-Air Software Update

SAFETY

- · Lone Worker
- · Basic Privacy
- · Enhanced Privacy
- o AES256 Encryption
- Transmit Interrupt (decode)
- Transmit Interrupt (encode)
- Digital EmergencyEmergency Search Tone
- Remote Monitor
- Radio Disable / Enable
- Rated IP54
- Rugged to MIL-STD 810

SYSTEMS

- Direct Mode (including Dual Capacity Direct Mode)
- IP Site Connect (Single and Multi-Site)
- Capacity Plus (Single and Multi-Site)
- O Capacity Max



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, -4 DMR Tier II and DMR Tier III					
Conducted/Radiated Emissions (TIA603D)	-36 dBm < 1 GHz, -30 dBm > 1 GHz					
Adjacent Channel Power	60 dB (12.5 kHz channel), 70dB (20² / 25 kHz)					
Frequency Stability	± 0.5 ppm					
RECEIVER SPECIFICATIONS						
Analog 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 channel), 70 dB (20² / 25 kHz)					
Adjacent Channel Selectivity, (TIA603D)-2T	45 dB (12.5 kHz channel), 70 dB (20² / 25 kHz)					
Spurious Rejection (TIA603D)	70 dB					
AUDIO SPECIFICATIO	ONS					
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 channel), -45 dB (20² / 25 kHz)					
Conducted Spurious Emissions (TIA603D)	-57 dBm					

BLUETOOTH SPECIF	ICATIONS				
Version	4.0				
Range	Class 2, 10 m				
Supported Profiles	Bluetooth Headset Profile (HSP), Serial Port Profile (SPP), Motorola Solutions fast push-to-talk.				
Simultaneous Connections	1 x audio accessory and 1 x data device				
Permanent Discoverable Mode	Optional				
GNSS SPECIFICATIO	NS				
Constellation Support	GPS, GLONASS				
Time To First Fix, Cold Start	< 60 s				
Time To First Fix, Hot Start	< 10 s				
Horizontal Accuracy	< 5 m				
Wi-Fi SPECIFICATIONS					
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)				
ENVIRONMENTAL S	PECIFICATIONS				
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				

MILITARY STANDARDS										
	MIL-STD 810C		MIL-STD 810D		MIL-STD 810E		MIL-STD 810F		MIL-STD 810G	
	METHOD	PROCEDURE	METHOD	PROCEDURE	METHOD	PROCEDURE	METHOD	PROCEDURE	METHOD	PROCEDURE
Low Pressure	500.1	1	500.2	II	500.3	II	500.4	II	500.5	П
High Temp	501.1	I, II	501.2	I/A1, II/A1	501.3	I/A1, II/A1	501.4	I/Hot, II/Hot	501.5	I/A1, II/A1
Low Temp	502.1	T	502.2	I/C3, II/C1	502.3	I/C3, II/C1	502.4	I/C3, II/C1	502.5	I/C3, II/C1
Temp Shock	503.1	1	503.2	A1/C3	503.3	A1/C3	503.4	1	503.5	I-C
Solar Radiation	505.1	П	505.2	I/Hot-Dry	505.3	I/Hot-Dry	505.4	I/Hot-Dry	505.5	I/A1
Rain	506.1	I, II	506.2	1, 11	506.3	1, 11	506.4	1, 111	506.5	I, III
Humidity	507.1	П	507.2	II/Hot-Humid	507.3	II/Hot-Humid	507.4	-	507.5	I/Hot-Humid
Salt Fog	509.1	1	509.2	1	509.3	1	509.4	-	509.5	-
Dust	510.1	1, 11	510.2	1, 11	510.3	1, 11	510.4	1, 11	510.5	1, 11
Vibration	514.2	VIII/CatF/ CurveW, XI	514.3	I/Cat10, II/ Cat3	514.4	I/Cat10, III/ Cat3	514.5	I/Cat24, II/ Cat5	514.6	I/Cat24, II/ Cat5
Shock	516.2	I, II	516.3	I, IV	516.4	I, IV	516.5	I, IV	516.6	I, V, VI

² 20 kHz channel not available for 300MHz models

To get connected with MOTOTRBO, visit www.motorolasolutions. com/mototrbo or find your closest Motorola representative or authorised Partner at www.motorolasolutions.com/contactus

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NOTES $^{\rm 1}\,\rm DM4401e$ and DM4601e models include GNSS and Bluetooth as standard.