



YOUR MOBILE VOICE JUST GOT STRONGER

MOTOTRBO™ DM4000 SERIES DIGITAL TWO-WAY MOBILE RADIOS

From the delivery driver crisscrossing the city to the sanitation crew clearing streets, MOTOTRBO™ can transform your enterprise and make employee interactions smarter and safer. Our best-in-class audio and exceptional data capabilities empower people like never before.

Versatile and powerful, MOTOTRBO combines the best of two-way radio functionality with the latest digital technology. DM4000 Series radios integrate voice and data seamlessly, offer enhanced features that are easy to use, and deliver operations-critical advantages like integrated Bluetooth® and Intelligent Audio.

The DM4000 Series can remaster your workplace and the way people collaborate to help you achieve even greater efficiency.

AUDIO BEYOND EXPECTATIONS

When it comes to exceptional audio clarity, the quality of digital can't be denied. With the DM4000 Series mobiles, you get digital quality plus unique features to help your employees hear and speak clearly, wherever they work.

With Intelligent Audio, the radio volume automatically adjusts to compensate for background noise so workers don't have to adjust their radio volume to avoid missing a call in loud situations or disturbing others when they move into quiet places. Increased background noise suppression filters out unwanted external clamor – from road traffic to the roar of engines.

Bluetooth® audio, embedded right in the radio, provides voice communication with exceptional clarity – giving your people the freedom to move without wires. Also, IMPRES™ audio accessories enhance noise suppression and improve voice intelligibility for smarter audio than they've ever experienced before.

INDUSTRY-LEADING DATA

DM4000 Series radios feature integrated GPS that enables location tracking of mobile work teams and text messaging to enable communication when voice isn't feasible, and the large, full-colour display operates in day or night mode, for easy viewing of contact lists, text messages and work order tickets even in bright sunlight. These radios also feature integrated Bluetooth®, enabling the radio to wirelessly interface with Bluetooth®-enabled devices such as barcode scanners and magnetic card readers to facilitate the collection of critical information in the field.

MOTOTRBO's Application Developer program offers customised data applications that allow you to adapt your radios to your business challenges. With the industry's largest developer program, data applications answer your objectives – from work order ticket management to telephony integration, and more.

HIGH-POWERED PERFORMANCE

Because MOTOTRBO uses TDMA digital technology, you get integrated voice and data, twice the calling capacity and clearer voice communications. Also, the smart IMPRES technology in our high-powered accessories enables easier communications – everywhere your people travel.

RICH FUNCTIONALITY

DM4000 Series radios offer plenty of features your business seeks – including enhanced call signaling, basic and enhanced privacy-scrambling, option board expandability, the transmit interrupt suite to prioritise critical communication the moment you need it and compatibility with SCADA solutions for utility and public service monitoring and alarms. Programmable button features appear on the display for easy viewing and quick access. And when workers can't be distracted, customisable voice announcement provides audible confirmation of channel and zone changes as well as programmable button features, eliminating the need to view the display.

EXPANDED CAPACITY AND COVERAGE

Your work crews are on the go – picking up loads, dropping off cargo, repairing roads or restoring power after a storm. That's why you need the far-reaching performance of MOTOTRBO™.

IP Site Connect helps to dramatically improve customer service and productivity by using the Internet to extend coverage to create a wide area network, enhance single site coverage or link geographically dispersed locations. Capacity Plus single-site trunking expands capacity to over 1,000 users without adding new frequencies. Connect Plus multi-site digital trunking enables you to accommodate the high volume, wide area communication your business requires. So whether you want expanded coverage at a single site or across multiple ones, MOTOTRBO can be scaled to your needs.

MIGRATE AT YOUR OWN PACE

Keeping operations running smoothly during a change in communication systems is vital to business. It's easy to migrate to digital with DM4000 Series radios because they operate in analogue and digital mode while the dynamic mixed mode repeater functionality streamlines automatic switching between analogue and digital calls. So you can begin using MOTOTRBO radios and repeaters on your existing analogue system, and when your time and budget allow, move to digital at your own pace.



DM4000 SERIES SPECIFICATIONS

GENERAL SPECIFICATIONS*									
		DM4600/DM4601			DM4601	DM4400/DM4401			
		VHF	UHF Band 1	UHF Band 2	800	VHF	UHF Band 1	UHF Band 2	800
Channel Capacity		Up to 1,000				32			
Typical RF Output	Low Power	1-25 W	1-25 W	1-40 W	10-35 W	1-25 W	1-25 W	1-40 W	10-35 W
Dimensions (H x W x L)		53.3 x 175.3 x 205.7 mm				53.3 x 175.3 x 205.7 mm			
Weight		1.8 kg				1.8 kg			
Current Drain	Standby	0.81 A max				0.81 A max			
	Rx @ Rated Audio	2 A max				2 A max			
	Transmit	1-25 W: 11.0 A max	1-25 W: 11.0 A max	1-25 W: 11.0 A max	12 A	1-25 W: 11.0 A max	1-25 W: 11.0 A max	1-25 W: 11.0 A max	12 A
FCC Description		1-25 W: ABZ99FT3086	1-25 W: ABZ99FT4087	1-40 W: ABZ99FT4085	AZ492FT5862	1-25 W: ABZ99FT3086	1-25 W: ABZ99FT4087	1-40 W: ABZ99FT4085	AZ492FT5862

RECEIVER					TRANSMITTER				
	VHF	UHF Band 1	UHF Band 2	800		VHF	UHF Band 1	UHF Band 2	800
Frequencies	136-174 MHz	403-470 MHz	450-527 MHz	806-870 MHz	Frequencies	136-174 MHz	403-470 MHz	450-527 MHz	806-870 MHz
Channel Spacing	12.5 kHz / 25 kHz				Channel Spacing	12.5 kHz / 25 kHz			
Frequency Stability (-30°C, +60°C, +25°C Ref)	± 0.5 ppm				Frequency Stability (-30°C, +60°C, +25°C Ref)	± 0.5 ppm			
Analog Sensitivity (12dB SINAD)	0.3 uV 0.22 uV (typical)				Modulation Limiting	± 2.5 kHz @ 12.5 kHz / ± 5.0 kHz @ 25 kHz			
Digital Sensitivity	5% BER @ 0.25 uV (0.19 uV typical)			5% BER @ 0.3 uV	FM Hum and Noise	-40 dB @ 12.5 kHz / -45 dB @ 25 kHz			
Intermodulation (TIA603D)	78 dB	75 dB	75 dB	75 dB	Conducted/Radiated Emission	-36 dBm < 1 GHz / -30dBm > 1GHz			
Adjacent Channel Selectivity (TIA603D)	50 dB @ 12.5 kHz 80 dB @ 25 kHz	50 dB @ 12.5 kHz 75 dB @ 25 kHz	50 dB @ 12.5 kHz 75 dB @ 25 kHz	50 dB @ 12.5 kHz 75 dB @ 25 kHz	Adjacent Channel Power	60 dB @ 12.5 kHz / 70 dB @ 25 kHz			50 dB @ 12.5 kHz / 60 dB @ 25 kHz
Spurious Rejection (TIA603D)	80 dB	75 dB	75 dB	75 dB	Audio Response	TIA603D			
Rated Audio	3 W (Internal) 7.5 W (External - 8 ohms) 13 W (External - 4 ohms)				Audio Distortion	3%			
Audio Distortion @ Rated Audio	3% (typical)				FM Modulation	12.5 kHz: 11K0F3E / 25 kHz: 16K0F3E			
Hum and Noise	-40 dB @ 12.5 kHz / -45 dB @ 25 kHz				4FSK Digital Modulation	12.5 kHz Data: 7K60F1D & 7K60FXD 12.5 kHz Voice: 7K60F1E & 7K60FXE Combination of 12.5 kHz Voice & Data: 7K60F1W			
Audio Response	TIA603D				Digital Vocoder Type	AMBE+2™			
Conducted Spurious Emission (TIA603D)	-57 dBm				Digital Protocol	ETSI TS 102 361-1, -2, -3			

*Availability subject to country law and regulations. Specifications subject to change without notice.
All specifications shown are typical. Radio meets applicable regulatory requirements.

PRODUCT SPEC SHEET
MOTOTRBO™ DM4000 SERIES MOBILE RADIOS

MILITARY STANDARDS: DM4000

	810C		810D		810E		810F		810G	
APPLICABLE MIL-STD	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES	METHOD	PROCEDURES
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	II	500.5	II
High Temperature	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
Low Temperature	502.1	I	502.2	I/C3, II/C1	502.3	I/C3, II/C1	502.4	I/C3, II/C1	502.5	I/C3, II
Temperature Shock	503.1	-	503.2	I/A1/C3	503.3	I/A1/C3	503.4	I	503.5	I/C
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	I	505.5	I/A1
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, III	506.5	I, III
Humidity	507.1	II	507.2	II	507.3	II	507.4	-	507.5	II - Aggravated
Salt fog	509.1	-	509.2	-	509.3	-	509.4	-	509.5	-
Dust	510.1	I	510.2	I	510.3	I	510.4	I	510.5	I
Vibration	514.2	VIII/F, Curve-W	514.3	I/10, II/3	514.4	I/10, II/3	514.5	I/24	514.6	I/24
Shock	516.2	I, II	516.3	I, IV	516.4	I, IV	516.5	I, IV	516.6	I, IV, V, VI

GPS: DM4601 & DM4401

Accuracy specs are for long-term tracking (95th percentile values > 5 satellites visible at a nominal -130 dBm signal strength)

TTFF (Time To First Fix) Cold Start	< 1 minute
TTFF (Time To First Fix) Hot Start	< 10 seconds
Horizontal Accuracy	< 5 meters

**ENVIRONMENTAL SPECIFICATIONS:
DM4000 SERIES**

Operating Temperature	-30° C / +60° C
Storage Temperature	-40° C / +85° C
Thermal Shock	Per MIL-STD
Humidity	Per MIL-STD
ESD	IEC 61000-4-2 Level 3
Dust and Water Intrusion	IP54, MIL-STD
Packaging test	MIL-STD 810C, D, E, F, and G

BLUETOOTH: DM4601 & DM4401

Version	Supports Bluetooth® 2.1 + EDR Specification
Profiles Supported	Bluetooth Headset Profile (HSP), Serial Port Profile (SPP), Motorola fast push-to-talk.
Devices Supported	Radio supports 1 Bluetooth audio accessory and 1 Bluetooth data device simultaneously
Range	Class 2, 10 meters

Availability subject to country law and regulations. Specifications subject to change without notice. All specifications shown are typical. Radio meets applicable regulatory requirements.

For more information on how to strengthen your mobile voice,
visit motorolasolutions.com/mototrbo

Motorola Solutions Australia Pty Limited

The information presented herein is to the best of our knowledge true and accurate. No warranty or guarantee expressed or implied is made regarding the capacity, performance or suitability of any product. MOTOROLA, MOTO, MOTOROLA SOLUTIONS and the Stylised M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license. All other trademarks are the property of their respective owners. © 2012 Motorola Solutions, Inc. All rights reserved. BTB/MA672 05/14

MOTOTRBO
DIGITAL
REMASTERED.

