

## MOTOTRBO

DM 3400 / DM 3401 / DM 3600 / DM 3601 PROFESSIONAL DIGITAL TWO-WAY MOBILE RADIOS

MOTOTRBO PROFESSIONAL DIGITAL TWO-WAY RADIO SYSTEM THE FUTURE OF TWO-WAY RADIO

Motorola is a company of firsts with a rich heritage of innovation. We continue to invent what's next, connecting people, delivering mobility and making technology personal. Versatile and powerful, MOTOTRBO combines the best in two-way radio functionality with digital technology, making it the ideal communication solution for your business. You get enhanced features, increased capacity, integrated data applications, exceptional voice quality and extended battery performance. This means more productive employees and lower operating costs for your business.



- Integrates voice and data into one device to increase your operational efficiency and support integrated applications including MOTOTRBO Text Messaging Services.
  Also features an integrated GPS module for use with third-party location-tracking applications.
- Uses Time-Division Multiple-Access (TDMA) digital technology to provide twice the calling capacity (as compared to analogue or FDMA radios) for the price of one frequency license. A second call doesn't require a second repeater, saving you equipment costs.
- In digital mode, provides clearer voice communications throughout the coverage area, as compared to analogue radios, rejecting static and noise.
- Provides easy migration from analogue to digital with the ability to operate in both analogue and digital modes and utilising the dynamic mixed mode repeater functionality allows for automatic switching between analogue and digital mode on the same repeater.

- Enables additional functionality including dispatch data, enhanced call signaling, basic and enhanced privacy-scrambling and option board expandability.
- Meets demanding specifications, U.S. Military 810 C, D, E and F, and Motorola standards for durability and reliability.
- Designed to comply with the globally recognised European Telecommunications Standard Institute (ETSI) Digital Mobile Radio (DMR) Tier 2 standard for professional twoway radio users.
- Utilises Motorola's state-of-the-art IMPRES™ technology in audio accessories, providing clearer audio delivery.
- Features the transmit interrupt suite, voice interrupt, remote voice dekey, emergency voice interrupt or data over voice interrupt to help prioritise critical communication exactly when needed.

- The IP Site Connect digital solution uses the Internet to extend coverage of your MOTOTRBO communication system to users anywhere in the world for dramatically improved customer service and increased productivity.
- Capacity Plus is a scalable, single-site digital trunking solution that can expand the capacity of your MOTOTRBO communication to over a thousand radio users without adding new frequencies.
- Motorola's Application Partner Programme enables the development of customised data applications that adapt MOTOTRBO radios to meet the unique needs of your business.
- Backed by a two-year Standard warranty. Extended Care Option available.

## STANDARDS BASED, FUTURE READY SOLUTION

MOTOTRBO is designed to comply with the globally recognised European Telecommunications Standard Institute (ETSI) Digital Mobile Radio (DMR) Tier 2 standard for professional two-way radio users.

DMR is widely backed by industry leading two-way radio manufacturers, and it is the

most widely deployed digital mobile radio technology for professional radio users around the world. This open standard assures long-term stability and develops a community of manufacturers who build interoperable equipment that can compete on features, benefits and price.



The DMR Association represents a collection of companies and organisations that manufacture DMR equipment, supply related products and service or support the standard in other ways. Motorola is an active member of the DMR Association so you can be assured that MOTOTRBO will always be a robust and future-ready digital radio solution.

## MOTOTRBO™ DM3400 / DM3401 / DM3600 / DM3601 MOBILE RADIO SPECIFICATIONS

General Specifications		
	Display DM 3600 / DM 3601	Numeric Display DM 3400 / DM 3401
Channel Capacity	1000	32
Typical RF Output		
Low Power UHF1 and VHF	1-25 W	1-25 W
High Power UHF2 (450-512 MHz)	1-40 W	1-40 W
High Power UHF2 (512-527 MHz) High Power UHF1	1-25 W 25-40 W	1-25 W 25-40 W
High Power VHF	25-45 W	25-45 W
Frequency	136-174 MHz (VHF)	136-174 MHz (VHF)
	403-470 MHz (UHF1)	403-470 MHz (UHF1)
Dimensions (HxWxL)	450-527 MHz (UHF2) 51 x 175 x 206 mm	450-527 MHz (UHF2) 51 x 175 x 206 mm
Veight	1.8 kg	1.8 kg
Current Drain:		
Standby Rx @ Rated Audio	0.81 A max 2 A max	0.81 A max 2 A max
Fransmit	1-25 W: 11.0A max	1-25 W: 11.0A max
	1-40 W: 14.5A max (11.0A max < 25 W)	1-40 W: 14.5A max (11.0A max < 25 W)
	25-40 W: 14.5A max 25-45 W: 14.5A max	25-40 W: 14.5A max 25-45 W: 14.5A max
	25-45 VV. 14:5A Max	25-45 W. 14.5A Max
Receiver		
	Display DM 3600 / DM 3601	
requency	136-174 MHz (VHF)	136-174 MHz (VHF)
	403-470 MHz (UHF1) 450-527 MHz (UHF2)	403-470 MHz (UHF1) 450-527 MHz (UHF2)
Channel Spacing	12.5 kHz / 20 kHz / 25 kHz	12.5 kHz / 20 kHz / 25 kHz
		+/- 1.5 ppm (DM 3400)
Frequency Stability (-30° C, +60° C, +25° C)	+/- 1.5 ppm (DM 3600) +/- 0.5 ppm (DM 3601)	+/- 1.5 ppm (DM 3400) +/- 0.5 ppm (DM 3401)
Analogue Sensitivity	0.30 uV (12 dB SINAD)	0.30 uV (12 dB SINAD)
	0.22 uV (typical) (12 dB SINAD)	0.22 uV (typical) (12 dB SINAD)
Digital Sensitivity	0.4 uV (20 dB SINAD) 5% BER: 0.3 uV	0.4 uV (20 dB SINAD) 5% BER: 0.3 uV
ntermodulation	70 dB	70 dB
Adjacent Channel Selectivity	60 dB @ 12.5 kHz 70 dB @ 20/25 kHz	60 dB @ 12.5 kHz 70 dB @ 20/25 kHz
Spurious Rejection	70 dB @ 20/23 kH2	70 dB @ 20/25 kHz
Rated Audio	3 W (Internal)	3 W (Internal)
lated Addio	7.5 W (External - 8 ohms)	7.5 W (External - 8 ohms)
	13 W (External - 4 ohms)	13 W (External - 4 ohms)
Audio Distortion @ Rated Audio	3% (typical)	3% (typical)
Hum and Noise	-40 dB @ 12.5 kHz	-40 dB @ 12.5 kHz
Audio Response	-45 dB @ 20/25 kHz +1, -3 dB	-45 dB @ 20/25 kHz +1, -3 dB
Conducted Spurious Emission	-57 dBm	-57 dBm
Transmitter		
Frequency	136-174 MHz (VHF)	136-174 MHz (VHF)
	403-470 MHz (UHF1)	403-470 MHz (UHF1)
Channel Spacing	450-527 MHz (UHF2) 12.5 kHz / 20 kHz / 25 kHz	450-527 MHz (UHF2) 12.5 kHz / 20 kHz / 25 kHz
Frequency Stability	+/- 1.5 ppm (DM 3600)	+/- 1.5 ppm (DM 3400)
-30° C, +60° C, +25° C)	+/- 0.5 ppm (DM 3601)	+/- 0.5 ppm (DM 3400)
Power Output	· · · · · · · · · · · · · · · · · · ·	
Low Power UHF1 and VHF	1-25 W	1-25 W
High Power UHF2 (450-512 MHz) High Power UHF2 (512-527 MHz)	1-40 W 1-25 W	1-40 W 1-25 W
ligh Power UHF1	25-40 W	25-40 W
High Power VHF	25-45 W	25-45 W
Modulation Limiting	+/- 2.5 kHz @ 12.5 kHz	+/- 2.5 kHz @ 12.5 kHz
	+/- 4 kHz @ 20 kHz +/- 5.0 kHz @ 25 kHz	+/- 4 kHz @ 20 kHz +/- 5.0 kHz @ 25 kHz
M Hum and Noise	-40 dB @ 12.5 kHz	-40 dB @ 12.5 kHz
	-45 dB @ 20/25 kHz	-45 dB @ 20/25 kHz
Conducted / Radiated Emission	-36 dBm < 1 GHz	-36 dBm < 1 GHz
Adjacent Channel Power	-30 dBm > 1 GHz -60 dB @ 12.5 kHz	-30 dBm > 1 GHz -60 dB @ 12.5 kHz
agazoni oriannon i ovvoi	-70 dB @ 20/25 kHz	-70 dB @ 20/25 kHz
Audio Response	+1, -3 dB	+1, -3 dB
Audio Distortion	3%	3%
Digital Vocoder Type	AMBE+2	AMBE+2
Digital Protocol	ETSI-TS 102 361-1, 2 & 3	ETSI-TS 102 361-1, 2 & 3
GPS		
Accuracy specs are for long-term tracking (95th percentile values	> 5 satellites visible at a nominal -130 dBm signal strength)	
TFF (Time To First Fix) Cold Start	< 1 minute	< 1 minute
TFF (Time To First Fix) Hot Start	< 10 seconds	< 10 seconds
Horizontal Accuracy	< 10 meters	< 10 meters
·	< 10 meters	< 10 III E (E ) 5
Environmental Specifications		
Operating Temperature	-30° C / +60° C	-30° C / +60° C
Storage Temperature	-40° C / +85° C	-40° C / +85° C
Temperature Shock	Per MIL-STD	Per MIL-STD
Humidity	Per MIL-STD	Per MIL-STD
Water and Dust Intrusion	IP54, MIL-STD	IP54, MIL-STD

<sup>\*</sup> With Lilon battery, operating temperature specification is -10° C / +60° C. With NiMH battery, operating temperature specification is -20° C / +60° C

Specifications subject to change without notice. All specifications shown are typical. Radio meets applicable regulatory requirements.



Recommended Dealer: www.hkrsolutions.com



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