

MOTOTRBO"

DM3600/DM3601/DM3400/DM3401 Mobile Radios



Mobile radios available in Display and Numeric Display, **GPS and Non-GPS models**.

Uses Time-Division Multiple-Access (TDMA) digital technology which **doubles the number of users** you can have on a single licensed 12.5 kHz channel.

Integrates voice and data to increase operational efficiency.

Provides **clearer voice communications** throughout the coverage area as compared to analogue radios.

Enhanced call management

features include call alert, emergency, remote monitor, push-to-talk ID, radio check, private call, all call and radio disable.

IP Site Connect provides automatic roaming from one coverage area to another with no manual intervention or interruption.

The **enhanced privacy** mode further protects the voice and data communications.

Optional **Capacity Plus** trunking enables repeaters to manage the availability of active channels. Users are automatically connected to co-workers without switching channels.

Four programmable buttons (two buttons for DM3400) for **easy access to favorite features;** Replacement Button Kit offers customised feature-specific buttons

Emergency button (or footswitch) **alerts supervisor** or dispatcher in emergency situations.

Lone Worker feature alerts supervisor or dispatch by sending out an alarm when there is no radio activity over a specified duration of time.

DM3601 can **transmit location coordinates** with an emergency call using Location Services application.

Allows **easy migration** from analogue to digital as all units operate in analog and digital modes.

Meets U.S. Military Standards 810 C, D, E, and F, and **Motorola standards** for durability and reliability.

Newly designed and durable IMPRES™ keypad microphone supports unit to unit **short free form and quick text messaging** via programmable buttons.

Utilises the IMPRES Audio System for **enhanced audio functionality**.

DM3600/3601 contacts list accommodates up to **500/1000 contacts** (analogue/digital).

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.

Accelerate performance.

The next-generation professional two-way radio communications solution is here, with more performance, productivity and value – thanks to digital technology that delivers increased capacity and spectrum efficiency, integrated data communications and enhanced voice communications.

MOTOTRBO complies with the European Telecommunications Standards Institute (ETSI) Digital Mobile Radio (DMR) tier two standard, a globally recognised and approved standard for the professional two-way radio market.

MOTOTRBO offers you a private, standards-based, cost-effective solution that can be tailored to meet your unique coverage and feature needs. This versatile portfolio provides a complete system of portable radios, mobile radios, repeaters, accessories and data applications.

	DM3600 Display Non-GPS Model DM3601 Display GPS Model	1 1		DM3400 Non-Display Non-GPS Model DM3401 Non-Display GPS Model			
	UHF	VHF	UH	F	VHF		
Channel Capacity	10	00		32			
Frequencies	403-470 MHz 450-527 MHz	136-174 MHz	403-470 MHz	450-527 MHz	136-174 MHz		
Dimension (HxWxT)	51 x 175 >	51 x 175 x 206 mm			51 x 175 x 206 mm		
Weight	1.8 kg (1.8 kg (4.0 lbs)		1.8 kg (4.0 lbs)			
Current Drain (High Power)							
Standby	0.81 A	0.81 A max		0.81 A max			
Rx @ Rated Audio	2 A	2 A max		2 A max			
Tx @ Rated Audio	14.5 A	14.5 A max 14.5 A max		max			
Power Supply	13.8	13.8 VDC		13.8 VDC			
FCC Description	1-25 W : ABZ99FT4081	1-25 W : ABZ99FT3083	1-25 W : ABZ	99FT4081	1-25 W : ABZ99FT3083		
	1-40 W : ABZ99FT4083		1-40 W : ABZ	99FT4083			

Receiver						
Frequencies	403-470 MHz 450-527 MHz	136-174 MHz	403-470 MHz 450-527 MHz	136-174 MHz		
Channel Spacing	12.5 kHz/ 25	12.5 kHz/ 25 kHz		12.5 kHz/ 25 kHz		
Frequency Stability	+/- 1.5 ppm (DN	+/- 1.5 ppm (DM3600)		+/- 1.5 ppm (DM3400)		
(-30°C, +60°C, +25°C)	+/- 0.5 ppm (DI	+/- 0.5 ppm (DM3601)		+/- 0.5 ppm (DM3401)		
Analog Sensitivity	0.3 uV (12 dB S	SINAD)	0.3 uV (12 dB SINAD)			
	0.4 uV (20 dB S	SINAD)	0.4 uV (20 dB SINAD)			
	0.22 uV (typ	ical)	0.22 uV (typical)			
Digital Sensitivity	5% BER: 0.3	5% BER: 0.3 uV		R: 0.3 uV		
Intermodulation						
TIA603C	75 dB	78 dB	75 dB	78 dB		
ETS	60 dB	60 dB	60 dB	60 dB		
Adjacent Channel Selectivity	60 dB @ 12.5	60 dB @ 12.5 kHz		60 dB @ 12.5 kHz		
(TIA603, ETS)	70 dB @ 25	70 dB @ 25 kHz		70 dB @ 25 kHz		
Spurious Rejection						
TIA603C	75 dB	80 dB	75 dB			
ETS	70 dB	70 dB	70 dB	70 dB		
Rated Audio	3 W (Internal)		3 W (Internal)			
	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% (typica	3% (typical)		3% (typical)		
Hum and Noise	-40 dB @ 12.5 kHz		-40 dB @ 12.5 kHz			
	-45 dB @ 25	kHz	-45 dB @ 25 kHz			
Audio Response	+ 1, -3 dE	3	+ 1, -3 dB			
Conducted Spurious Emission	-57 dBm	· · · · · · · · · · · · · · · · · · ·	-57 dBm			

Transmitter							
Frequencies	403-470 MHz	450-527 MHz	136-174 MHz	403-470 MHz	450-527 MHz	136-174 MHz	
Channel Spacing		12.5 kHz/ 25 kHz		12.5 kHz/ 25 kHz			
Frequency Stability		+/- 1.5 ppm (DM3600)		+/- 1.5 ppm (DM3400)			
(-30°C, +60°C, +25°C)		+/- 0.5 ppm (DM3601)	+/- 0.5 ppm (DM3401)		DM3401)	
Power Output	1-25 W	1-40 W	1-25 W	1-25 W	1-40 W	1-25 W	
Modulation Limiting		+/- 2.5 kHz @ 12.5 kHz			+/- 2.5 kHz @ 12.5 kHz		
		+/- 5.0 kHz @ 25 kHz			+/- 5.0 kHz @ 25 kHz		
FM Hum and Noise		-40 dB @ 12.5 kHz			-40 dB @ 12.5 kHz		
		-45 dB @ 25 kHz			-45 dB @ 25 kHz		
Conducted / Radiated Emission		-36 dBm < 1 GHz			-36 dBm < 1 GHz		
		-30 dBm > 1 GHz			-30 dBm > 1 GHz		
Adjacent Channel Power		-60 dB @ 12.5 kHz			-60 dB @ 12.5 kHz		
		-70 dB @ 25 kHz			-70 dB @ 25 kHz		
Audio Response		+1, -3 dB		+1, -3 dB			
Audio Distortion		3%			3%		
FM Modulation		12.5 kHz : 11K0F3E			12.5 kHz : 11K0F3E		
		25 kHz: 16K0F3E			25 kHz: 16K0F3E		
4FSK Digital Modulation		12.5 kHz Data Only: 7K60FXD			12.5 kHz Data Only: 7K60FXD		
		12.5 kHz Data & Voice: 7K60FXE		12.5 kHz Data & Voice: 7K60FXE			
Digital Vocoder Type		AMBE+2 TM			AMBE+2™		
Digital Protocol		ETSI-TS102 361-1			ETSI-TS102 361-1		

GPS		Environmental Specifications		
Accuracy specs are for long-term tracking (95th	h percentile values > 5 satellites visible at a nominal -130 dBm signal strength)	Operating Temperature	-30°C / +60°C	
TTFF (Time To First Fix) Cold Start	< 1 minute	Storage Temperature	-40°C / +85°C	
TTFF (Time To First Fix) Hot Start	< 10 seconds	Thermal Shock	Per MILSTD	
Horizontal Accuracy	< 10 meters	Humidity	Per MILSTD	
		Humidity ESD	IEC-801-2KV	
		Water Intrusion	IEC 60529 - IP54	
		Packaging Test	MIL-STD 810D and E	

^{*}Awailability subject to country law and regulations. Specifications subject to change without notice. All specifications shown are typical. Radio meets applicable regulatory requirements. Conforms to EC 1999/5/EC (R&TTE - Radio and Telecommunications Terminal Equipment) EN 300 086 EN 300 113



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