

DM 3400/3401

Numeric Display Mobile Radios



- 1 Accessory connector supports USB and enhanced audio capability.
- Multi-colored LED indicators for clear, visible feedback of calling, scanning and monitoring.
- 3 Large, easy-to-use volume knob.
- 4 DM 3401 includes integrated GPS module.
- 5 Large, easy-to-use channel navigation buttons.
- 6 Powerful, front-projecting speaker.
- 7 32 channels; channel number is easy to read on large, clear numeric two-digit display.
- Two programmable buttons for easy access to favourite features. New features such as one-touch calling are made even easier through programmable button access.
- 9 Compact and ergonomically friendly microphone.

Numeric Display Mobile Radio Standard Package

- Radio with Numeric Display Control Head
- Trunnion
- Cabling (power cord)
- Compact Microphone
- Quick Reference Guide

Additional Features

- Enhanced call management
 - Encode: emergency, push-to-talk ID Decode: radio check, remote monitor, radio disable, all call
- DM 3401 can transmit GPS coordinates
- Dual-mode analogue/digital scan facilitates a smooth migration from analogue to digital
- Send quick text messaging via programmable buttons

MOTOTRBO™ System Components and Benefits

DM 3400/3401 Numeric Display Mobile Radios

Specifications

GENERAL SPECIFICATION	ONS
Channel Capacity Typical RF Output	32
Low Power UHF1 and	I VHF 1-25 W
High Power UHF2 (45	0-512 MHz) 1-40 W
High Power UHF2 (51	2-527 MHz) 1-25 W
High Power UHF1	25-40 W
High Power VHF	25-45 W
Frequency	136-174 MHz (VHF)
	403-470 MHz (UHF1)
B	450-512 MHz (UHF2)
Dimensions (HxWxL)	51 x 175 x 206 mm
Weight Current Drain:	1.8 kg
Standby	0.81 A max
Rx @ Rated Audio	2 A max
Transmit	1-25W: 11.0A max
) W: 14.5A max (11.0A max < 25 W)
	25-40 W: 14.5A max
	25-45 W: 14.5A max
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RECEIVER	
Frequency	136-174 MHz (VHF)
	403-470 MHz (UHF1)
	450-512 MHz (UHF2)
Channel Spacing	12.5 kHz/ 20 kHz/ 25 kHz
Frequency Stability	+/- 1.5 ppm (DM 3400)
(-30° C, +60° C, +25° C)	+/- 0.5 ppm (DM 3401)
Analogue Sensitivity	0.30 uV (12 dB SINAD)
	0.22 uV (typical) (12 dB SINAD)
	0.4 uV (20 dB SINAD)
Digital Sensitivity	5% BER: 0.3 uV
Intermodulation	70 dB
Adjacent Channel Selectivity	60 dB @ 12.5 kHz,
	70 dB @ 20/25 kHz
Spurious Rejection	70 dB
Rated Audio	3 W (Internal)
	7.5 W (External - 8 ohms)
.,,	13 W (External - 4 ohms)
Audio Distortion @ Rated Aud	- 1-71 7
Hum and Noise	-40 dB @ 12.5 kHz
	-45 dB @ 20/25 kHz
Audio Response	+1, -3 dB

TRANSMITTER	
Frequency	136-174 MHz (VHF)
	403-470 MHz (UHF1)
	450-512 MHz (UHF2)
Channel Spacing	12.5 kHz/ 20 kHz/ 25 kHz
Frequency Stability	+/- 1.5 ppm (DM 3400)
(-30° C, +60° C, +25° C)	+/- 0.5 ppm (DM 3401)
Power Output	
Low Power UHF1 and VHF	1-25 W
High Power UHF2 (450-512 MH	
High Power UHF2 (512-527 MH	·
High Power UHF1	25-40 W
High Power VHF	25-45 W
Modulation Limiting	+/- 2.5 kHz @ 12.5 kHz
	+/- 4 kHz @ 20 kHz
***************************************	+/- 5.0 kHz @ 25 kHz
FM Hum and Noise	-40 dB @ 12.5 kHz
	-45 dB @ 20/25 kHz
Conducted / Radiated Emission	-36 dBm < 1 GHz
	-30 dBm > 1 GHz
Adjacent Channel Power	-60 dB @ 12.5 kHz
	-70 dB @ 20/25 kHz
Audio Response	+1, -3 dB
Audio Distortion	3%
Digital Vocoder Type	AMBE+2
Digital Protocol	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) TTFF (Time To First Fix) Cold Start < 1 minute TTFF (Time To First Fix) Hot Start < 10 seconds Horizontal Accuracy < 10 meters

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-30° C / +60° C
Storage Temperature	-40° C / +85° C
Temperature Shock	Per MIL-STD
Humidity	Per MIL-STD
Water and Dust Intrusion	IP54, MIL-STD

MILITARY STANDARDS				
	810E		810F	
Applicable MIL-STD	Methods	Procedures	Methods	Procedures
Low Pressure	500.3	II	500.4	II
High Temperature	501.3	I/A, II/A1	501.4	I/Hot, II/Hot
Low Temperature	502.3	I/C3, II/C1	502.4	I/C3, II/C1
Temperature Shock	503.3	I/A, 1C3	503.4	l
Solar Radiation	505.3	I	505.4	l
Rain	506.3	1,11	506.4	I, III
Humidity	507.3	II	507.4	-
Salt Fog	509.3	I	509.4	l
Dust	510.3	I	510.4	I
Vibration	514.4	I/10, II/3	514.5	1/24
Shock	516.4	I. IV	516.5	I. IV

-57 dBm

For more information please contact your local Motorola Authorised Dealer or Distributor



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Conducted Spurious Emission