MOTOTRBO™

DR3000 Repeater

Supports **two simultaneous voice or data paths** in digital Time-Division Multiple-Access (TDMA) mode.

Doubles the number of users you can have on a single licensed 12.5 kHz channel.

Integrates voice and data to increase operational efficiency.

Operates in **analogue or digital** mode—bright, clear, colored LEDs indicate mode.

IP Site Connect allows networks up to 15 repeaters to expand voice & data coverage.

Monitor and manage repeater via the Repeater Diagnostic Alarm & Control (RDAC) repeater software.

100% continuous full duty cycle at high power.

Integrated power supply.

Rack or wall-mountable; desktop housing also available. **Automated** battery back-up (battery sold separately).

Optional **Capacity Plus** trunking is a scalable, single-site digital solution that enables a large group of MOTOTRBO radio users to share both voice and data communication on the same system.

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.

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.

General Specifications*

	DR3000		
	UHF		**VHF**
Channel Capacity	16		
Frequencies	403-470 MHz	450-527 MHz	136-174 MHz
Dimension (H x W x L)	132.6 x 482.6 x 296.5 mm 5.22 x 19 x 11.67 in		
Voltage requirements	100-240 VAC / 50/60 Hz		
Weight	14 kg (31 lbs)		
Current Drain Standby Transmit	 1.0A (100 VAC), 0.5A (240 VAC) 4.0A (100 VAC), 1.8A (240 VAC)		
Operating Temperature Range	-30°C to +60°C		
Max Duty Cycle	100%		
FCC Description	1-25 W: ABZ99FT4026 25-40 W: ABZ99FT4025	1-40 W: ABZ99FT4027	1-25 W: ABZ99FT3026 25-40 W: ABZ99FT3025

Receiver			
Frequencies	403-470 MHz	450-527 MHz	136-174 MHz
Channel Spacing	12.5 kHz/ 25 kHz		
Frequency Stability (-30° C, +60° C, +25° C)	 +/- 0.5 ppm		
Analog Sensitivity	0.3 uV (12 dB SINAD) 0.4 uV (20 dB SINAD) 0.22 uV (typical)		
Digital Sensitivity	5% BER: 0.3 uV		
Intermodulation TIA603C ETS	 75 dB 70 dB		
Adjacent Channel Selectivity	60 dB @ 12.5 kHz 70 dB @ 25 kHz		
Spurious Rejection TIA603C ETS	 75 dB 70 dB		 80 dB 70 dB
Audio Distortion @ Rated Audio	3% (typical)		
Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 25 kHz		
Audio Response	+ 1, -3 dB		
Conducted Spurious Emission	-57 dBm		

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

*Specifications subject to change without notice. All specifications shown are typical. Radio meets applicable regulatory requirements.
520-527 MHz ≤ 40W
Conforms to
EC 1999/5/EC (R&TTE - Radio and Telecommunications Terminal Equipment)
EN 300 086
EN 300 113

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www.motorola.com.au

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