



DR 3000

Repeater



- 1 100% continuous full duty cycle
- 2 Supports two simultaneous voice or data paths in digital TDMA mode.
- 3 Integrated power supply.
- 4 Operates in analogue or digital mode, bright, clear, colored LEDs indicate mode.
- 5 LEDs clearly indicate transmit and receive modes in both channel slots.
- 6 Sturdy handles make installation and handling easier.

Repeater Standard Package

- Repeater
- Power Cord

Additional Features

- Repeater Diagnostics and Control
- Multiple Site Support (IP Site Connect)
- 16 channels

MOTOTRBO™ System Components and Benefits

DR 3000 - REPEATER

Specifications

GENERAL SPECIFICATIONS

Channel Capacity	16
Typical RF Output	
Low Power UHF1 and VHF	1-25 W
High Power UHF2 (450-512 MHz)	1-40 W
High Power UHF2 (512-527 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) 450-527 MHz (UHF2)
Dimensions (HxVxL)	132.6 x 482.6 x 296.5 mm
Weight	14 kg
Voltage Requirements	100-240 V AC (13.6 V DC)
Current Drain:	
Standby	0.1A (100 V AC) 0.5A (240 V AC) 1.0A (typical) (13.4 V DC)
Transmit	
Low Power	2.5A (100 VAC) 1.5A (240 VAC) 7.5A (typical) (13.4 VDC)
High Power	4.0A (100 V AC) 1.8A (240 V AC) 12A (typical) (13.4 V DC)
Operating Temperature Range	-30°C to +60°C
Max Duty Cycle	100%

TRANSMITTER

Frequency	136-174 MHz (VHF) 403-470 MHz (UHF1) 450-527 MHz (UHF2)
Channel Spacing	12.5 kHz/ 20 kHz/ 25 kHz
Frequency Stability	+/- 0.5 ppm (-30° C, +60° C, +25° C)
Power Output	
Low Power UHF1 and VHF	1-25 W
High Power UHF2 (450-512 MHz)	1-40 W
High Power UHF2 (512-527 MHz)	1-25 W
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

RECEIVER

Frequency	136-174 MHz (VHF) 403-470 MHz (UHF1) 450-527 MHz (UHF2)
Channel Spacing	12.5 kHz/ 20 kHz/ 25 kHz
Frequency Stability	+/- 0.5 ppm (-30° C, +60° C, +25° C)
Analogue Sensitivity	0.30 uV (12 dB SINAD) 0.22 uV (typical) (12 dB SINAD) 0.4uV (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
Audio Distortion @ Rated Audio	3% (typical)
Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 20/25 kHz
Audio Response	+1, -3 dB
Conducted Spurious Emission	-57 dBm < 1GHz



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