



BF-TM8250R

DMR Mobile Radio And Repeater in One

BF-TM8250R is a DMR mobile terminal with 2 timeslots which is able to function as a single frequency repeater. It allocates one timeslot to receive a signal and the other to transmit it on the same frequency, using DMO mode to extend radio coverage. In this way, it saves another frequency to function as a repeater without the need of a duplexer or an extra antenna, making it a cost-effective and suitable choice for commercial users who value



BelFone DMR Commercial Products

Single Frequency Repeater



Accessories



- DMR Mobile/Repeater Dual Modes
- Enlarge DMO Communication Distance
- Power-on Password
- Cost-effective DMR Repeater Solution
- IP Multisites Connectivity (With Extra Devices)



Specifications

General	
Frequency Range	VHF:136-174MHz;UHF:350-390MHz/400-470MHz/450-520MHz
Channel Capacity	160
Weight	1.29Kg
Channel Spacing	12.5KHz
Working Voltage	DC 13.8V(±15%)
Frequency Stability	±1.5ppm
Antenna Impedance	50Ω
Dimensions	156(L)*158(W)*47(H)mm
Transmitter	
Power Output	VHF/UHF H:30W VHF/UHF L:10W
4FSK Modulation	12.5KHz (data only): 7K60FXD 12.5KHz (data and voice): 7K60FXE
FM Modulation	12.5 KHz: 8K50F3E
Modulation Limitation	+/- 2.5KHz @ 12.5KHz
FM Noise	-40dB
Spurious Emission	-36 dBm≤1GHz/-30 dBm≥1GHz
Adjacent Channel Power	≤-60dB
Frequency Response	+1/-3 dB
Audio Distortion	<3%
Vocoder	AMBE+2™
Receiver	
Digital Sensitivity	5% BER: 0.25 uV
Analog Sensitivity	0.25 uV (12 dB SINAD)
Intermodulation	60dB
Adjacent Channel Selectivity	60 dB
Spurious Suppression	70 dB
FM Noise	-40dB
Frequency Response	+1/-3 dB
Audio Power	3W
Audio Distortion	3%(typical)
Conduction Radiation	-57dBm
GPS Precision	Horizontal Accuracy≤-10m (when signal is good)
TTFF (first location)Cold Boot	< 1 minute (good signal)
TTFF (first location)Hot Boot	< 10 seconds (good signal)
Environmental Specifications	
Working Temperature	-20°C-+70°C
Storage Temperature	-40°C-+80°C

 Belfone reserves the right to change or update the above specifications without any prior notice. For more information please visit www.belfone.com



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