



BF-TD516LF

446 License Free
DMR Portable Radio



OVERVIEW

BF-TD516LF is an entry-level DMR portable radio designed for customers who want to enjoy radio communications without having to apply for frequency licenses. With loud and crystal-clear audio, longer battery life, and of course a higher spectrum efficiency delivered at a 12.5KHz channel spacing, BF-TD516LF provides you with a whole package of basic digital features and wonderful user experience.

HIGHLIGHTS AND BENEFITS



License Free to Save Cost

Utilizing unlicensed spectrum is a great benefit for users to save the cost of frequency and enhance digital communication efficiency at the same time.

Migrate from Analog to Digital Effortlessly

It operates in both digital and analog modes so that the existing analog system keeps running while being ready for migration to digital.



Slim, Discreet, and Ergonomic

Small size and lightweight, it fits easily in your hands. You can move freely and comfortably without feeling a burden. Sleek and compact, it blends well with the business attire.



Excellent Audio Quality

The FEC technology and AMBE+2M vocoder deliver clear and crisp audio.

Longer Battery Life

It can function for longer than any conventional analog radio, meeting the battery needs of a long-day operation.



Private Calls, Group Calls And All Calls (programmable)

The versatile calling functions bring more efficiency to your team-work.

Compatible with Motorola Audio Accessories

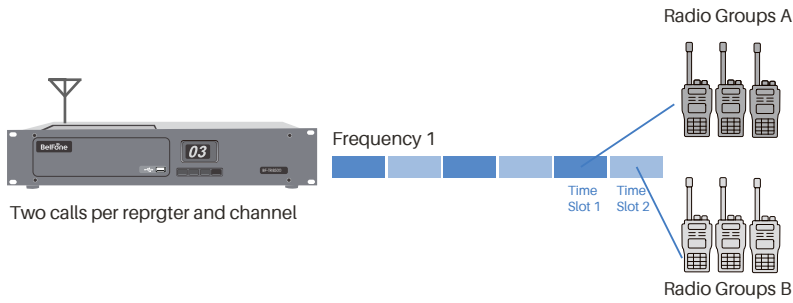
BF-TD516LF is compatible with Motorola audio accessories. So, if you already have a Motorola analog earpiece or microphone, you can pair them with it and go hand-free.



NETWORKING MODE

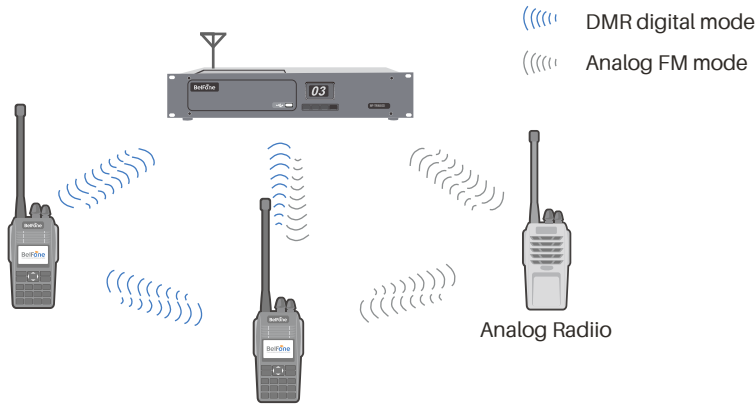
TDMA 2-Slot

In repeater mode, this radio supports two voice calls simultaneously due to DMR two timeslots, which means two communication paths at 1 frequency with no extra costs or frequency license.



Digital/Analog Mixed Mode




Receive both analog and digital signals on a single channel and can automatically switch into the needed mode for efficient communications.



STANDARD ACCESSORIES

			
Battery	Belt Clip	Strap	Charger

OPTIONAL ACCESSORIES

		
Programming Cable	Earpiece	Remote Speaker

SPECIFICATION

General	
Frequency Range	UHF:446.0–446.2MHz
Channel Capacity	16
Zones	2
Channel Spacing	12.5KHz
Working Voltage	DC 7.4V (± 20%)
Frequency Stability	± 1.5ppm
Antenna Impedance	50Ω
Battery Average Working Time (5/5/90)	Digital 18 Hours; Analog 14 Hours
Weight	259g(including battery pack)
Battery Capacity	Real 1800 mAh(Li-ion Battery)
Dimensions	35(L)x 59.7(W)x114(H)mm
Transmitter	
Power Output	0.5W
4FSK Modulation	12.5KHz data only: 7K60FXD 12.5KHz data and voice: 7K60FXE
FM Modulation	12.5 KHz: 8K50F3E/ 25 KHz: 16KΦF3E;
Modulation Limitation	+/- 2.5KHz @ 12.5kHz; +/- 5KHz @ 25kHz
FM Noise	-40dB
Spurious Emission	-36 dBm≤1GHz/-30 dBm≥1GHz
Adjacent Channel Power	≤-60dB
Frequency Response	+1/-3 dB
Audio Distortion	AMBE+2™
Vocoder	3%
Receiver	
Digital Sensitivity	5% BER: 0.25 UV
Analog Sensitivity	0.25 uV (12 dB SINAD)
Intermodulation	60dB
Adjacent Channel Selectivity	60dB
Spurious Response Rejection	60dB
FM Noise	-40dB
Frequency Response	+1/-3 dB
Audio power	1.5W
Audio Distortion	3% (typical)
Conduction Radiation	-57dBm
Environmental Specifications	
Working Temperature	-20°C—+60°C
Storage Temperature	-30°C—+85°C
Water Proof	IP54
Shock & Vibration	MIL-STD-810C/D/E/F

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Dedicated to increasing the efficiency and reliability of mission critical communications, BelFone MEA is always on the way to offer responsive, flexible and reliable products. For more information about our products and solutions, contact us or visit us at www.belfone.ae

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