

## Specification

General	
Frequency Range	VHF:136-174MHz UHF: 400-470MHz,/450-520MHz
Channel Capacity	38
Weight	326g
Channel Spacing	12.5KHz/25KHz
Working Voltage	DC 7.4V
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω
Battery	18/23 hours(2600mAh)
Dimensions	57*33.5*125mm (L/W/H)
Battery capacity	2600mAh
GPS	Cold Start: 25s / Hot Start: 1s Accuracy: Position < 5m(Typical Open Sky)
Transmitter	
RF Power Output	UHF: 5 W(H) / 1 W(L) VHF: 5 W(H) / 1 W(L)
4FSK Modulation	12.5KHz Data Only: 7K60FXD 12.5KHz Data & Voice: 7K60FXW
FM Modulation	11K0F3E @ 12.5KHz
Modulation Limiting	±2.5KHz @ 12.5KHz
FM Hum & Noise	40dB @ 12.5KHz
Conducted/Radiated Emission	-36dBm <1GHz, -30dBm >1GHz
Adjacent Channel Power	60dB @ 12.5KHz
Audio Response	+1/-3 dB
Audio Distortion	≤3%
Digital Vocoder Type	AMBE+
Receiver	
Sensitivity	0.22μV / BER 5%
Adjacent Selectivity	60 dB
Inter-modulation	70 dB
Hum & Noise	40 dB
Spurious Response Rejection	70 dB
Conduction Radiation	-57dBm
Audio Response	+1/-3 dB
Rated Audio Power Output	0.5W
Audio Distortion	≤3%
Environmental Specifications	
Audio Response	-30℃-+60℃
Storage Temperature	-40℃-+85℃
Dustproof & Waterproof	IP67 Standard
Humidity	Per MIL-STD-810 C/D/E/F/G Standard
Shock & Vibration	Per MIL-STD-810 C/D/E/F/G Standard

BelFone reserve the right to change any specifications without warning due to the technology improvement.For more information, please visit [www.belfone.com](http://www.belfone.com) or contact marketing [Fujian Beifeng Teleco@belfone.com](mailto:Fujian Beifeng Teleco@belfone.com)



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## BF-TD800

### DMR DMR Portable Radio

DMR Tier II portable radio TD800 designed to use in smart dispatch patrol system which provide versatile voice and data service for critical communication. TD800 integrated with GPS and RFID technology, offers smart management method for personnel and facilities, ensure higher safety and efficiency for the organizations. Supporting multi sites roaming and with IP67 for dust & water protection BF- TD800 is a rough and compact radio you can trust to keep your work teams connected.

- ETSI DMR Tier I and Tier II, support BelFone SDP pseudo trunk mode
- UHF: 400-470 MHz VHF: 136-174 MHz
- RF output power: 4W/1W(UHF), 5W/1W(VHF)
- IP67 for dust & water protection
- 2600mAh Lion battery, long battery working time
- Inbuilt GPS
- Inbuilt RFID reader
- Roaming work mode in multi sites (upgradable)
- Voice announcement for different status
- Support text message
- Device user level management, terminal dispatcher
- Caller direction indicator
- Support DMR standard Telemetry



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# BF-TD800

DMR Radio for Commercial & Business



## High Lights

### DMR TDMA 2 time slots on a 12.5kHz single frequency channel

It provides group call, private call and emergency call on one slot, and used the other slot to provide versatile data services, such as Text Message, Patrolling Checking (RFID), Location Positioning and Tracking (GPS for outdoors and RFID for indoors), and can make dispatching and remote controlling over the same frequency.

### Patrolling Checking RFID

With planned RFID checkpoint and RFID radio, can set rules for users in patrol group, can set the route, start time, arrive time, duration, required working days in the week or in the calendar. And a result of patrol statistic will be calculated automatically by the system.

### Location Positioning and Tracking GPS

You can track vehicles and assets without additional equipment to purchase, install or maintain. It can send location information to dispatcher systems and you can view GPS positioning information.

### Roaming Function

Create wide area coverage and automatically roam from one coverage area to another with no manual intervention.

### IP67 for dust & water protection

Dustproof and splashproof, so you can work with confidence in challenging environments.

### Geo fence

An alert will be given to control center if he goes out the boundary of the fence, or doesn't have any movements for a set period.

### Device user level management, terminal dispatcher

Different user level can be set (commander, level1/2/3 user etc.) to fit different communication scenarios and dispatching priority.

## Features

### Main Features

- TOT
- Scan
- Monitor
- Low Battery Alert
- High/Low Power Switchable

### Digital Features

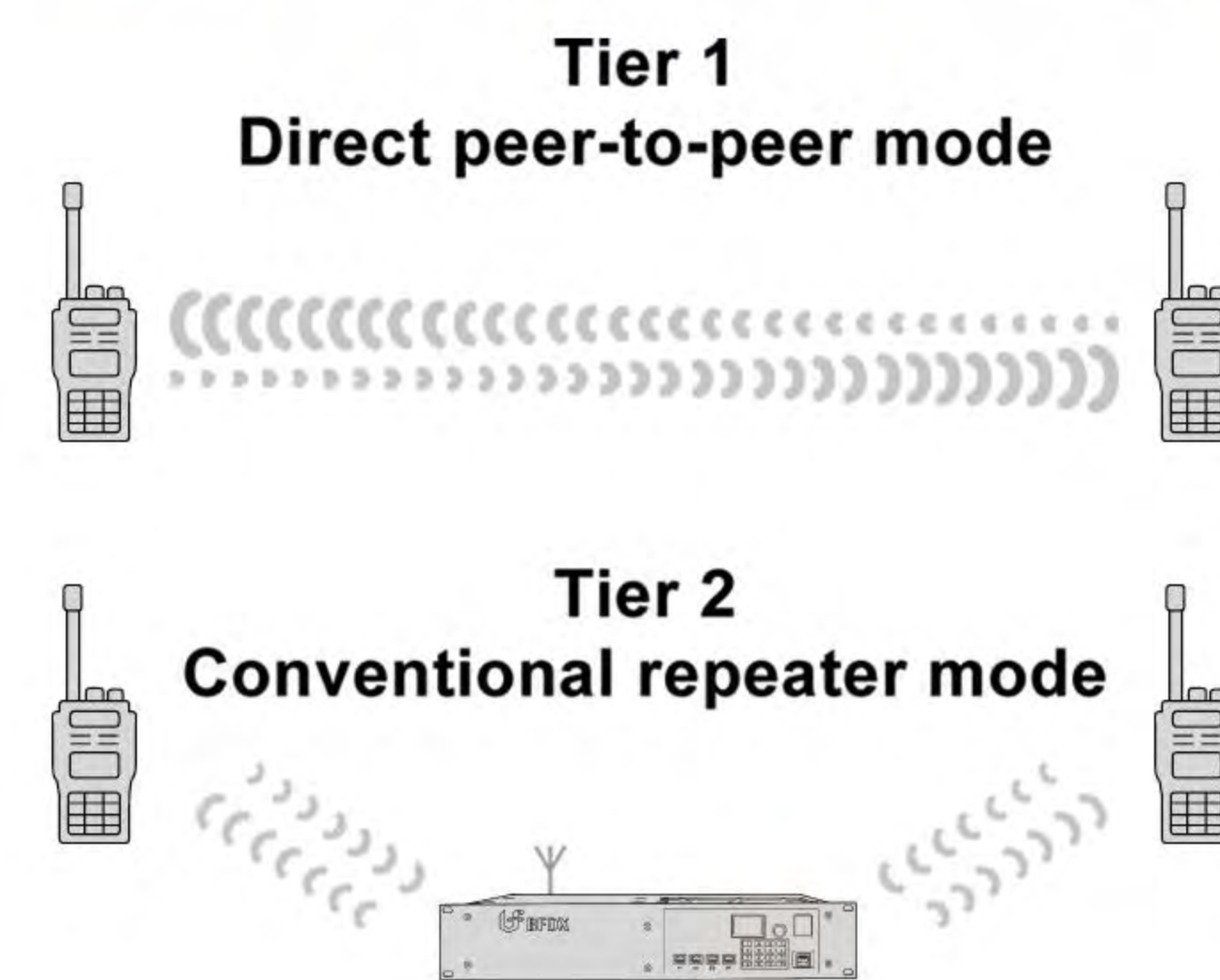
- Private Call
- Group Call
- All Call
- Remote Kill/Revive
- Remote Monitor
- Radio Check
- Emergency Alarm
- Call Prompt
- Digital Encryption
- GPS (Optional)
- RFID
- Roaming

### Analog Features

- CTCSS/DCS
- Squelch Setting
- Busy Channel Lockout
- Narrow/Wide Band



## Two-channel Digital TDMA System



## Standard Accessories



## Optional Accessories

