



# BF-TD821

## Commercial Portable Radio

- Digital/analog Dual Modes
- A Longer Battery Life
- Excellent Audio Quality
- Private Call, Group Call And All Call
- Automatic Roaming
- Scan/ Monitor
- DMO Pseudo Trunk
- Digital/Analog Dual Modes
- Radio Priority-Based Interruption





## OVERVIEW

BF-TD821 is a high power DMR migration radio with a high power output of 7W. It enjoys a communication range of up to 15km long, and consistently delivers a clear and loud digital audio even in the fringe areas. Its rugged, compact and ergonomic design features with anti-slip function, making it an ideal choice for a great variety of users, like public securities, construction sites, shopping malls and so on.

## HIGHLIGHTS AND BENEFITS

### Digital/analog Dual Modes

BF-TD821 gives you a smooth transition from the analog world to the digital.

### A Longer Battery Life

BF-TD821 can function for longer than any conventional analog radios.(digital 17hours; analog 13 hours)

### Excellent Audio Quality

Excellent digital audio quality comes from the AMBE + 2™ vocoder and FEC technology

### Private Call, Group Call And All Call

The versatile calling functions bring more efficiency to your teamwork.

### Automatic Roaming

In an IP multi-site network, this feature enables BF-TD821 to automatically roam among all sites and stay connected, delivering more flexibility and efficiency.

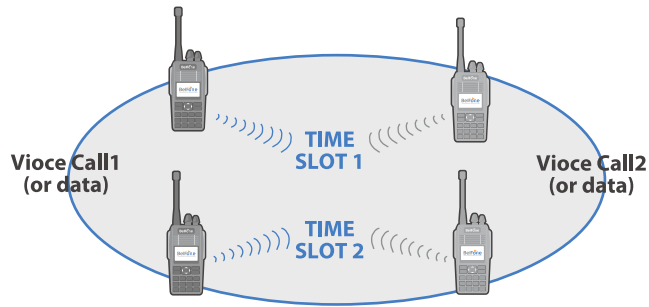
### Scan/ Monitor

At a convenient push of a button you can monitor all the conversations on your channel or you can scan conversations on different channels.



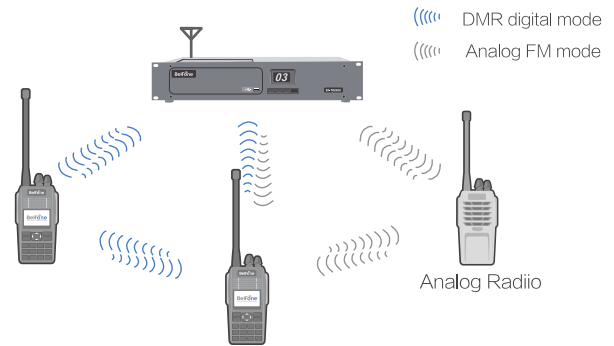
## DMO Pseudo Trunk

The user can choose slot 1 or slot 2 for communications. When one slot is occupied the radio will automatically switch into the free slot. Frequency efficiency is greatly increased.



## Digital/Analog Dual Modes

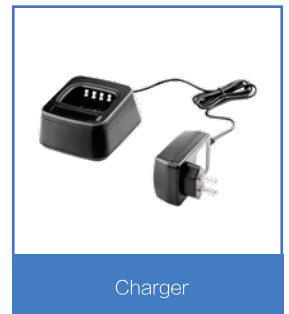
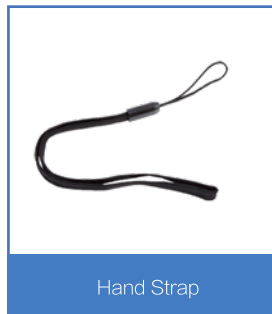
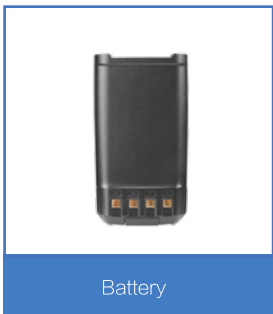
Receive both analog and digital signals on a single channel and can automatically switch into the needed mode for efficient communications.



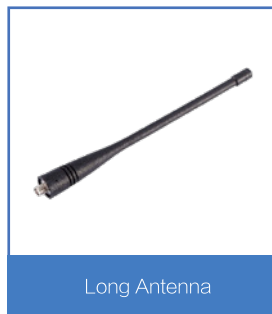
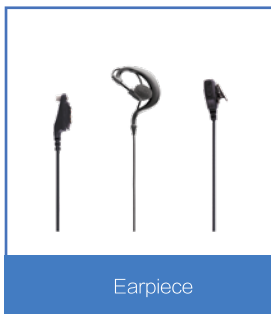
## Radio Priority-Based Interruption

A radio with higher priority can interrupt communications between radios with lower priorities, either to transmit or to clear a channel for more important communications. This brings better dispatching efficiency to the team.

## STANDARD ACCESSORIES



## OPTIONAL ACCESSORIES



# SPECIFICATION

General	
Frequency Range	VHF: 136-174MHz; UHF: 350-390MHz/ 400-480MHz/ 450-520MHz
Channels	160
Zones	32
Channel Spacing	12.5KHz/ 25KHz
Working Voltage	DC7.4V (±20%)
Frequency Stability	±1.5ppm
Antenna Impedance	50Ω
Battery Capacity	2600mAh
Battery Average Working Time	Digital 17 hours; Analog 13 hours
Dimension	59(L)* 33(W)* 115(H) mm
Weight	236g (including battery pack)

Transmitter	
Power Output	High power: 5W; Middle power: 3W; Low power: 1W
4FSK Modulation	12.5KHz data only: 7K60FXD; 12.5KHz data and voice: 7K60FXE
FM Modulation	12.5KHz: 8K50FXD; 25KHz: 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/-3dB
Vocoder	AMBE+2™
Audio Distortion	< 3%

Receiver	
Digital Sensitivity	5% BER: 0.25 uV
Analog Sensitivity	0.25 uV (12 dB SINAD)
Intermodulation	65dB
Adjacent Channel Selectivity	60dB
Spurious Suppression	70dB
FM Noise	-40dB
Frequency Response	+1/-3 dB
Audio Power	500mW
Audio Distortion	3% (typical)
Conduction Radiation	-57 dBm

Environmental Specifications	
Operating Temperature	-20℃~+60℃
Storage Temperature	-30℃~+85℃
Water Proof	IP54

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