

## Specifications

General	
Frequency Range	VHF: 136~174 MHz UHF: 350-390 MHz/ 400MHz ~ 480MHz
Channel Capacity	1024
Zone	128
Channel Spacing	12.5KHz/25KHz
Working Voltage	7.4V (±20%)
Battery Capacity	3350mAh (Duration Time 30 Hours)
Weight	315 g (include battery)
Dimensions	56(L)*33(W)*129(H)mm
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω
Transmitter	
Power Output	High Power: 3W; Low Power: 2W
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/±5.0kHz@25kHz
FM Noise	40dB@12.5kHz/45dB@25kHz
Spurious Emission	-36dBm<1GHz/-30dBm>1GHz
Adjacent Channel Power	≤ -60dB
Frequency Response	+1/-3dB
Audio Distortion	≤5%
Digital Vocoder	AMBE ++TM
Receiver	
Digital Sensitivity	-116dBm /BER1%
Analog Sensitivity	0.28μV (12dB SINAD)
Intermodulation	65dB@12.5/25kHz
Adjacent Channel Selectivity	60dB@12.5kHz/ 70dB@25kHz
Spurious Suppression	70dB@12.5kHz/ 70dB@25kHz
Blocking	84dB
Frequency Response	+1/-3dB
Audio Output Power	1.0W (8Ω Load)
Audio Distortion	≤5%
Conduction Radiation	-57 dBm
GPS Precision	Horizontal Accuracy≤10m (with good signal)
TTF (first location)Cold Boot	< 1 minute (with good signal)
TTF (first location)Hot Boot	< 10second (with good signal)
Environmental Specifications	
Operating Temperature	-20℃~ +60℃
Storage Temperature	-30℃~ +85℃
Dust& Water Proof	IP68

BelFone reserves the right to change or update the specifications without any prior notice. For more information please visit [www.belfone.com](http://www.belfone.com)



**Fujian BelFone Communications Technology Co., Ltd.**  
 Add: A15, Huaqiao Economic Development Zone, Shuangyang,  
 Luojiang, Quanzhou, Fujian, China 36200  
 Tel: +86 595 28396717  
 Fax: +86 595 22771635  
 Email: [overseas@belfone.com](mailto:overseas@belfone.com)  
 Website: [www.belfone.com](http://www.belfone.com)



To order in your local place, please contact:



## BF-TD930(MC-N)

### DMR Personal Communication Radio

BF-TD930(MC-N) is a high-end digital two-way radio which incorporates such advanced features as Pseudo Trunk, IP68 Protection, ARC4& AES256 Encryptions, GPS Positioning, Full Duplex Communication (Private Call), Conference Communication (Group Call), and Ad Hoc. Ad Hoc enables BF-TD930(MC-N) to quickly create a network that can be flexibly deployed. Moreover, the built-in Mandown, Lone Worker and Emergency Alert will keep the user safe and sound. This safe and versatile radio is designed to benefit users from fields ranging from public security to emergency response.

Mandown, Lone Worker, Emergency Alarms

IP68 for Dust & Water Protection, MIL-STD-810G compliant

Advanced Encryption with ARC4& AES256

DMO True 2-Slot, Allowing for 2 Talk Paths at 1 Frequency

Transmit Interrupt/Radio Priority for Emergency or Urgent Communication

Integrated High Precision GPS

Ad Hoc



[www.belfone.com](http://www.belfone.com)





# BF-TD930(MC-N)

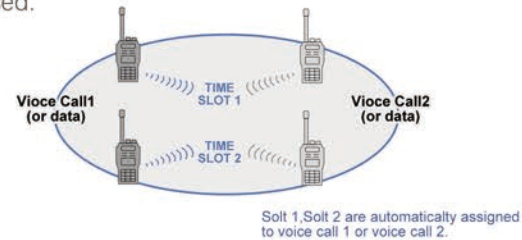
Personal Communication Radio



## Highlights

### 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.



### Full Duplex Communication (Private Call) and Conference Communication (Group Call)

BF-TD930(MC-N) incorporates full duplex calling technology to allow both parties to talk at the same time, which greatly facilitates the exchange of crucial information and increases communication efficiency. It's suitable for such scenarios as one-to-one full duplex call (Private Call) with 2 users, and one-to-group conferences call (Group Call) with unlimited user number in same group.

### GPS Positioning

With better accuracy and precision, the built-in GPS enables the commander to locate and track his team members. This contributes a lot to personnel management and also promotes command and dispatch work as it equips the commander with clear location awareness.

### Personnel Safety

Mandown: If some worker slips or falls, the mandown function will automatically activate and transmit a signal to other radios for help. Built-in Lone Worker, and Emergency alarms are also available in case of any accident.



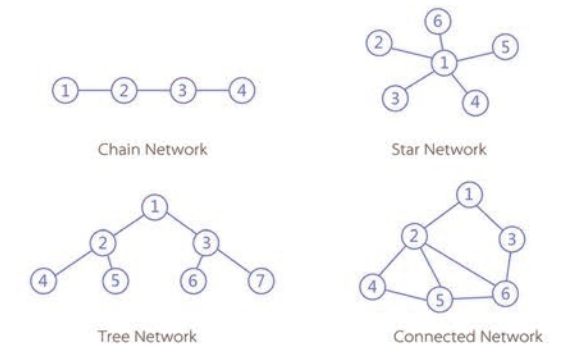
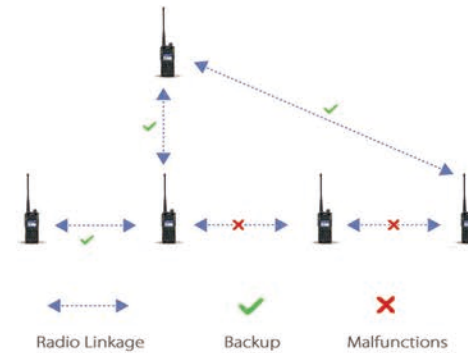
### Handheld/SFR Dual Modes

BF-TD930(MC-N) can also function as a single frequency repeater, allocating one timeslot to receive and the other to transmit at the same frequency and using DMO mode to further extend radio coverage. One single device serves two purposes.



### Ad Hoc Networking

Without the aid of repeaters, BF-TD930(MC-N) can speedily establish a portable ad hoc network which is self-adapting and dynamic with as many BF-TD930(MC-N) nodes as may be needed and which supports versatile network topologies. BF-TD930(MC-N) networking is highly flexible as well as reliable.



### Advanced Encryption with RAC4& AES256

The RAC4& AES256 encryption technology keeps your communications safe and private, optimizing your information safety.



### Automatic Roaming

BF-TD930(MC-N) automatically roams among all sites in the network and always stays connected. This delivers more efficiency and flexibility to your radio communications.

## Optional Accessories



Headset



Headset



Wireless PTT



Whip Antenna



Super Charger



Programming Cable



Earpiece



Speaker Microphone

### IP68 Protection

IP68 certified, BF-TD930(MC-N) is a tough radio designed to brave the challenges of harsh environments. So, environmental factors are one less thing to worry about.

## Standard Accessories



Battery



Belt Clip



Hand Strap



Stubby Antenna



Charger