



# BF-TP800

Hybrid Portable Radio

**Belfone** MEA  
*Communications for Efficiency and Safety*





## OVERVIEW

TP800 is a new advanced multi-mode radio which integrates Public broadband and narrowband PMR technology to provide critical voice and data services. It brings flexible usability of public network, private network, mixed network and gateway mode, and performance advancements like split-screen, dual PTT, GPS, recording, Bluetooth, etc., to be convenient and benefit for every aspect of radio experience. Designed to meet diversified requirements, it ensures mission-critical reliability, accelerates workflows and keeps responders safe and effective.

## HIGHLIGHTS AND BENEFITS



### Multi-mode Hybrid, Flexible Communications

A multi-mode radio works in DMR, analog and PoC (public 4G/3G/2G) mode, which could always be stay in connect, to communicate whenever and wherever.



### Intelligent Gateway Mode

This smart radio provides outstanding connectivity of PMR (DMR or analog) and PoC, brings all the advantages of narrowband and broadband technologies, bridging the voice communication over different networks.



### Intuitive Multi-Active Split-screen

Designed with full keypad, 1.77” transfective LCD, it offers you the choice of narrowband and broadband display up and down.



### 5000 mAh Extended Battery Life

It comes with a 14-hour smart lithium battery and a built-in PTC protection to take your communication even further.



Support 4G/3G/2G,  
national limitless  
communication.

Dual PTT of PMR and  
Poc to call at ease and  
high efficiency.

Flexible Multi-Optional  
Functions

- GPS positioning
- Bluetooth
- Recording
- Low battery voice alert

WEB-based public network dispatch  
to provide multi-functions  
like private/group call, GPS, query,  
RFID, data, messages, etc.



## APPLICATION



Large Manufacturing



Attractions



Law Enforcement



Logistic



Railway / Port

## ACCESSORIES



Battery



Belt Clip



Strap



Antenna



Charger



# SPECIFICATION

General	
Frequency Range	VHF: 136-174MHz UHF: 350-390MHz/ 400-480MHz/ 450-520MHz
Channels	100
Channel Spacing	12.5kHz/ 25kHz
Working Voltage	DC 3.7V
Frequency Stability	±1.5ppm
Antenna Impedance	50Ω
Battery Capacity	5000 mAh
Battery Average Working Time (5/5/90)	Public Network: 14hours PMR Network: 11 hours
Dimension(H*W*D)	123* 60* 30mm (Including antenna)
Weight	300g (Including battery)
Network Standards	LTE-FDD: B1/B3/B5/B8 LTE-TDD: B38/B39/B40/B41 WCDMA: B1/B8 TD-SCDMA: B34/B39
Transmitter (DMR Part)	
Output Power	High power: 4.0 ±0.2W Low power: 1.0 ±0.2W
4FSK Modulation	12.5kHz data only: 7K60FXD 12.5kHz data and voice: 7K60FXE
Modulation Limitation	±2.5kHz @ 12.5kHz ±5kHz @ 25kHz
Spurious Emission	-36 dBm ≤1GHz/ -30 dBm ≥1GHz
Adjacent Channel Power	≤-60dB
Audio Response	+1/-3dB
Audio Distortion	3%
Receiver (DMR Part)	
Digital Sensitivity	5% BER 0.25μV
Analog Sensitivity	0.22uV (12 dB SNAD)
Intermodulation	60dB
Adjacent Channel Selectivity	50dB
Spurious Suppression	ETSI/TIA603: 55dB
FM Noise	40dB @ 12.5kHz 45dB @ 25kHz
Frequency Response	+1/-3 dB
Audio Power	1.5W
Audio Distortion	≤5%
Conduction Radiation	3%(typical)
GPS Precision	Horizontal Accuracy ≤10m (with good signal)
Environmental Specifications	
Operating Temperature	-20°C~+65°C
Storage Temperature	-30°C~+85°C
Water Proof	IP54
Shock & Vibration	MIL-STD-810C/D/E/F

## BelFone Communications MEA

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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](http://www.belfone.ae)

