



# BF-TP800

## Hybrid Portable Radio

- Multi-mode Hybrid, Flexible Communications
- Intelligent Gateway Mode
- Intuitive Multi-Active Split-screen
- 5000mAh Extended Battery Life





## 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 useability 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 keep contact, 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 broadband display up and down.



### 5000mAh Extended Battery Life

It comes with a 14-hour smart lithium battery and a built-in PTC protection to guarantee the safety and reliability.



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, messagess, etc.



## APPLICATION



Large Manufacturing



Attractions



Law Enforcement



Logistic



Railway / Port

## ACCESSORIES



Battery



Belt Clip



Hang 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	DC3.7V
Frequency Stability	± 1.5ppm
Antenna Impedance	50Ω
Battery Capacity	5000mAh
Battery Average Working Time(5/5/90)	Public Network: 14 hours    PMR Network: 11 hours
Dimension(H*W*D)	123* 60* 30mm
Weight	300g (Excluding battery)
Network Standards	LTE-FDD: B1/B3/B5/B8    LTE-TDD: B38/B39/B40/B41    WCDMS: 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: 7K60FXE    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: 0.25uV
Analog Sensitivity	0.22uV (12 dB SINAD)
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℃~+65℃
Storage Temperature	-30℃~+85℃
Water Proof	IP68
Shock & Vibration	MIL-STD-810C/D/E/F

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