



# BF-TM8250

## Enhanced Conventional Mobile Radio

- GPS/SMS
- Remote Kill/Revive
- Secure Communications
- Radio priority-Based Interruption
- Can be updated to Trunking version



## OVERVIEW

BF-TM8250 comes with a large color display which delivers good visibility even under strong light environments. Also, the five programmable buttons allow the user to access any features he needs and thus greatly facilitate radio communications. Besides a full set of digital features, the integrated remote kill/stun/revive features bring unprecedented efficiency to teamwork and radio management.

## HIGHLIGHTS AND BENEFITS

### Radio priority-Based Interruption

This function enables a radio with higher level to interrupt communications between radios with lower levels, giving higher priority to radios with higher levels. This means better dispatching efficiency.

### GPS

BF-TM8250 can send location information to the command center and the commander can view GPS information in realtime, which increases commanding efficiency and personnel safety.

### Secure Communications

Use digital encryption to code and decode all voice calls, and support both ARC4 and AES256 encryption for secure communications.

### SMS

BF-TM8250 supports messages with up to 140 characters when discreet communications are needed.

### Remote Kill/Revive

Such functions greatly facilitate dispatching work and can be especially useful if you want to kill a lost radio.



# SPECIFICATION

## General

|                     |                                                                                   |
|---------------------|-----------------------------------------------------------------------------------|
| Frequency Range     | VHF:136~174MHz/UHF:350~390 MHz/UHF:400~470 MHz                                    |
| Zones               | 128                                                                               |
| Channel Capacity    | 1024                                                                              |
| Channel Spacing     | 12.5KHz/25KHz                                                                     |
| Operating Voltage   | DC 13.8V(±20%)                                                                    |
| Frequency Stability | ±1.5ppm                                                                           |
| Antenna Impedance   | 50Ω                                                                               |
| Dimensions          | Radio:175 ( L ) *175 ( W ) *63(H) mm<br>Microphone: 130 ( L ) *62 ( W ) *25(H) mm |
| Weight              | 1448g                                                                             |
| Bluetooth           | BT5.0                                                                             |

## Transmitter

|                          |                                                    |
|--------------------------|----------------------------------------------------|
| RF Output Power          | High Power:50W / Middle Power:25W<br>Low Power:10W |
| 4FSK Modulation          | Only Data: 7K60FXD,<br>Data and Audio: 7K60FXE     |
| FM Modulation            | 12.5 kHz: 8K50F3E;<br>25 kHz: 16KΦF3E;             |
| Modulation Limiting      | +/- 2.5kHz @ 12.5kHz;<br>+/- 5kHz @ 25kHz          |
| FM Noise                 | -40dB                                              |
| Conducted Emission       | -36 dBm≤1GHz/-30 dBm≥1GHz                          |
| Adjacent Channel Power   | ≤-60dB                                             |
| Audio Response           | +1/-3 dB                                           |
| Audio Distortion         | 3%                                                 |
| Digital Voice coder Type | AMBE                                               |

## Receiver

|                                     |                                              |
|-------------------------------------|----------------------------------------------|
| Digital Sensitivity                 | 5% BER: 0.25 uV                              |
| Analog Sensitivity                  | 0.28 uV (12 dB SINAD)                        |
| Intermodulation                     | 65 dB                                        |
| Adjacent Channel Selectivity        | 60 dB                                        |
| Spurious Response Rejection         | 70 dB                                        |
| FM Noise                            | -45 dB                                       |
| Audio Response                      | +1/-3 dB                                     |
| Rated Audio Output Power            | 3W(loudspeaker)                              |
| Maximum Audio Output Power          | 4.5W(loudspeaker)                            |
| Audio Distortion                    | 3 %( Typical)                                |
| Conducted Spurious Emission         | -57dBm                                       |
| Positioning Accuracy                | Horizontal Accuracy≤10m ( with well signal ) |
| TTFF (Time To First Fix) Cold Start | < 1minuter ( with well signal )              |
| TTFF (Time To First Fix) Hot Start  | < 1minuter ( with well signal )              |

## Environmental Specifications

|                       |              |
|-----------------------|--------------|
| Operating Temperature | -20℃—+60℃    |
| Storage Temperature   | -20℃—+70℃    |
| Humidity              | MIL-STD-810G |
| Vibration & Shock     | MIL-STD-810G |

# Features

## Main Features

- Digital/analog Dual Modes
- Pseudo Trunk
- Adjustable Power Levels
- GPS+Beidou(optional)
- Bluetooth 4.0(optional)



## Digital Features

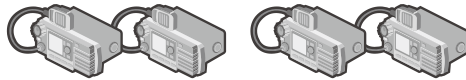
- Private Call
- Group Call
- All Call
- Radio Check
- Remote Kill/Revive
- Remote Monitor
- Emergency Alarm
- Digital Encryption
- SMS
- Roaming

## Analog Features

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

## DMO True 2-Slot

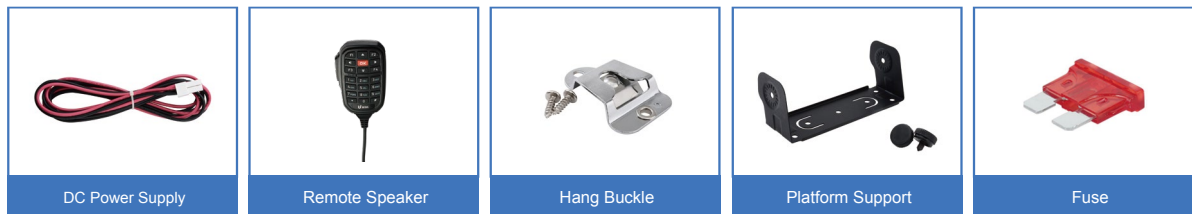
Voice Call 1 or Data 1  
(Direct Mode)



Voice Call 2 or Data 2  
(Direct Mode)



## STANDARD ACCESSORIES



## OPTIONAL ACCESSORIES



### Fujian Belfone Communications Technology Co., Ltd

**Add:** A-15 Huaqiao Economic Development Zone, Luojiang, Quanzhou, Fujian, China

**Email:** overseas@belfone.com

**Phone:** +86 595 28396717

**Fax:** +86 595 22771635

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