



# BF-TM8250

Enhanced Conventional  
Mobile Radio



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



## 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 a 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 real-time, which increases commanding efficiency and personnel safety.

### Remote Kill/Retrieve

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

### 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.



# SPECIFICATION

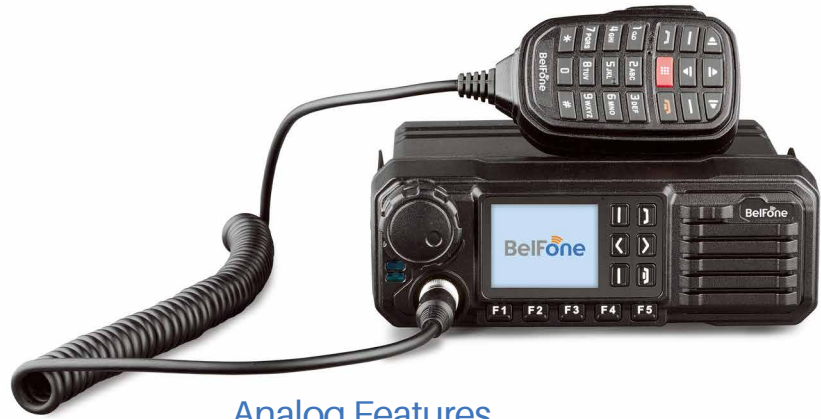
General	
Frequency Range	VHF:136–174MHz/UHF:350–390 MHz/UHF:400–470 MHz
Zones	128
Channel Capacity	1024
Channel Spacing	12.5KHz/25KHz
Operating Voltage	DC 13.8V(± 20%)
Frequency Stability	± 1.5ppm
Antenna Impedance	50 Ω
Dimensions	Radio:175 ( L ) *175 ( W ) *63(H) mm Microphone: 130 ( L ) *62 ( W ) *25(H) mm
Weight	1448g
Bluetooth	BT5.0
Transmitter	
RF Output Power	High Power:50W / Middle Power:25W / Low Power:10W
4FSK Modulation	Only Data: 7K60FXD, Data and Audio: 7K60FXE
FM Modulation	12.5 kHz: 8K50F3E; 25 kHz: 16KΦF3E;
Modulation Limiting	+/- 2.5kHz @ 12.5kHz; +/- 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

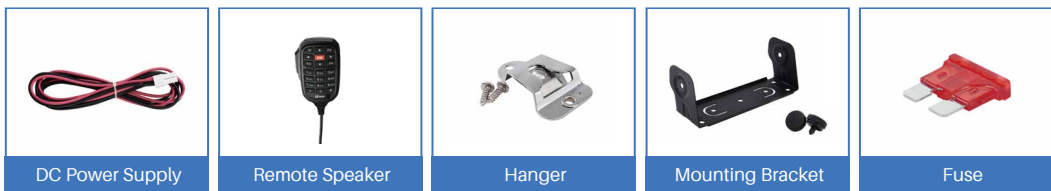
Voice Call 1 or Data 1  
(Direct Mode)



Voice Call 2 or Data 2  
(Direct Mode)



# STANDARD ACCESSORIES



# OPTIONAL ACCESSORIES



## 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)

