



PROFESSIONAL WIRELESS  
COMMUNICATIONS

Specialists in Two-Way Radio



## TD60 DUAL-MODE PORTABLE RADIO

TD60 dual-mode portable radio harnesses the power of narrowband and broadband technologies to provide mission-critical voice call, data record, positioning, etc. It enables seamless communications between the DMR network and public networks such as 2G, 3G, LTE, and WLAN.



**Nationwide  
Push to Talk  
and Tracking**



# TD60 DUAL-MODE PORTABLE RADIO

## KEY FEATURES AND BENEFITS

### • All-in-one Device

Combines 4G PoC, DMR Tier II&Tier III, Analog into a single device. No need to carry multiple separate handsets for accessing voice, data, and more.

### • Rugged & Reliable

Certified with an IP68 rating and conforming to the MIL-STD-810G standard, TD60 is built rugged to withstand water, dust, shock, extreme temperatures,etc.The unwavering physical durability of the TD60 is what ensures it can continue to perform as expected even in the harshest environmental conditions.

### • Long Shift Life Battery

The TD60 is designed with powerful 3000 mAh Lithium-Ion battery to deliver up to 16 hours of operation in digital mode.

### • Flexible Call Features

TD60 provides various call types, such as private call/group call/all call/alarm call. It supports real-time storage of recordings to local and one-click playback or download on-line recordings through the dispatch platform.

### • Extraordinary User Experience

Its 2.4"color HD screen incorporates translucent display technology which allows TD60 to provide excellent readability even in bright sunlight.

### • Easy to Operate

TD60 adopts dual PTT humanized design, which makes DMR and PoC have independent PTT key operation to avoid mixed use and misoperation.

### • Secure Communication

TD60 provides basic and enhanced encryption capability,including ARC4,DES, and 256 bits AES encryption algorithm. It ensures secure communication on voice call and data transfer between team members.

### • Automatic Switch

Automatically connect to the narrowband system over the broadband network to implement the communication with a narrowband radio to ensure reliable communications at all times.

### • Loud and Clear Audio Output

Equipped with 2.5W speakers and AI-based noise cancellation technology to ensure crystal and clear audio,which is suitable for users in noisy environments.

### • Versatile Data & Emergency Services

In addition to conventional communication service,TD60 provides rich data service and selectable functions,including Text Message,Scan,Emergency,Man Down,VOX and LoneWorker.

### • Transmit Interrupt

Enables users to interrupt another radio call to deliver critical communication exactly when and where it's needed.

### • Multiple Alarm Modes

Multiple alarm modes are built into TD60 to help keep personnel safe. Users can count on immediate SOS alerts being sent out to supervisors and/or dispatchers when alarm conditions are met.



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## ACCESSORIES

### Standard Accessories



Adaptor



Single Unit Charger



Battery



Antenna



Belt Clip

### Optional Accessories



Data Cable



Bluetooth Earphone



Bluetooth Speaker



Wired Earphone



Air Acoustic Tube Earphon

## APPLICATION SCENARIOS



Construction



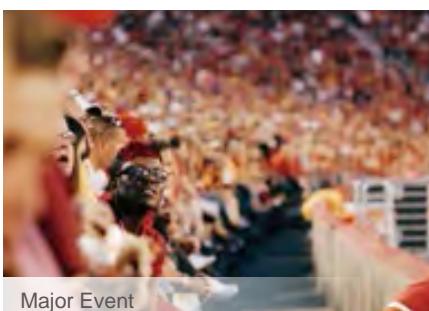
Electric Power



Public Safety



Airport



Major Event



Railway



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# TD60 Specification

## Wireless Data Communication

DMR/Analog	350MHz-400MHz
LTE	LTE FDD: B1/B3/B5/B8/B20/B28 LTE TDD: B38/B39/B40/B41
CDMA	BC0
WCDMA	B1/B8
TD-SCDMA	B34/B39
GSM	900/1800MHz
WLAN	2.4G, 802.11 b/g/n
NFC (Optional)	Communication distance > 1cm
BT	BT2.1+EDR/3.0/4.1 LE
Positioning	GPS/BDS/GLONASS Position performance for open zone : TTFF (Cold boot)< 1minute Horizontal position accuracy < 10meters

## General

Dimensions (H x W x D)	138mm*56mm*36mm
Channel Capacity	DMR:1024
Channel Spacing	25/20/12.5kHz
DMR Processor	TIOMAP138
PoC Processor	Qualcomm M8909
Operating Voltage	7.4V DC±20%
Display	2.4" HD Screen
Card Slots	1 Nano SIM cards 2 Micro SD card
Knob Switch	Stepless Knob
Standard Battery	3000 mAh Li-polymer, 7.4V(Rated)
Sensors	Support Man-down
Weight (with antenna&battery)	450g±5g

All specifications are tested according to applicable standards, and subject to change without notice due to continuous development.

## Transmitter

Audio Response	+1~-3dB
TX Power	1W/4W
4FSK Digital Modulation	12.5KHz Data:7K60F1D&7K60FXD, 12.5KHzVoice:7K60F1E&7K60FXD Combination of 12.5KHzVoice and Data:7K60F1W
Inter-modulation	TIA-603: 70dB @ 12.5/20/25kHz ETSI: 65dB @ 12.5/20/25kHz
Blocking	ETSI: 84dB;TIA-603: 80dB
Suppression of	TIA_603: 70dB @ 12.5/20/25kHz
Spurious Response	ETSI: 70dB @ 12.5/20/25kHz
Adjacent Channel Selectivity	TIA_603: 60dB @ 12.5kHz/70dB @ 20/25kHz ETSI:60dB @ 12.5kHz/70dB @ 20/25kHz
Frequency Stability	±1.5ppm
Audio Output	2.5W
Audio Distortion	≤3%
Digital Vocoder Type	AMBE+2™

## Receiver

Audio Response	+1~-3dB
Hum and Noise	40dB @ 12.5KHz, 45dB @ 20/25KHz
RX Sensitivity	0.2uV/-121dBm (12dB SINAD) 0.16uV/-123dBm (12dB SINAD) (Typical) 0.2uV/-121dBm @BER5%
Inter-modulation	TIA-603: 70dB @ 12.5/20/25kHz ETSI: 65dB @ 12.5/20/25kHz
Blocking	84dB
Suppression of	TIA_603: 70dB @ 12.5/20/25kHz
Spurious Response	ETSI: 70dB @ 12.5/20/25kHz
Adjacent Channel Selectivity	TIA_603: 60dB @ 12.5kHz/70dB @ 20/25kHz ETSI:60dB @ 12.5kHz/70dB @ 20/25kHz
Frequency Stability	±0.5ppm
Audio Output	2W
Audio Distortion	≤3%
Digital Vocoder Type	AMBE+2™

## Environment

Dust and Water Proofing	IP68
Shock and Vibration	MIL-STD-810 G
ESD	IEC 61000-4-2 (Level 4), ±8kV (Contact), ±15kV (Air)
Operating Temperature	-20°C - +60°C
Storage Temperature	-40°C - +85°C
Humidity	MIL-STD-810G, ≤ +65°C, 95%RH



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