Talkpod

D40

DMR Digital Portable Radio

The Talkpod D40 is a DMR radio capable of providing quality voice communication in a small pocket–sized design approved to IP54 testing. This is the ideal radio solution for small organizations looking for a cost–effective way to migrate to clear digital communication.

DMR DIGITAL MOBILE RADIO ASSOCIATION

RATED **IP54**

Talkpod Technology Co., Ltd.

Features

- PMR446/400–480MHz
- Digital & Analog Dual Mode
- DMO 2–Slot
- Intelligent Noise Reduction
- STD–MIL810C/D/E/F/G
- 40% Battery Life Increase
- DMR Tier II
- SOS Alarm

- Multiple Scan
- High/Low Power Switch
- VOX Sound–Control
- AMBE ++ or AMBE +2TM
- Trill Enhancement
- Microphone Distortion Control
- Unique Serial Number
- Intelligent Audio

| Special Function

- **Analog & Digital Dual Mode**

  Get all the benefits of digital, including better voice quality, better range and better battery life–but retain compatibility with your existing radio fleet. With analog and digital capability, you have thefreedom to migrate to the latest technology at your own pace.

- **Smaller, Handheld Design**

  The D40 Smaller Handheld design, Anti–skidding design,functionality and style to meet the communication needs of customers in the express, transportation, warehouse, events, andsecurity.

- **Better Radio Call Quality**

  With the combined application of narrowband codec and digital error correction technologies, D40 is capable of ensuring you superior voice in noisy environments or at the edge of the coverage area. In addition, D40 built–in a 1W speaker to ensures clear and crisp voice communication.

- **DMO True 2–Slot / DMRA Direct Mode**

  In Directmode D40 can provide 2–slot communication, which allows for 2 talk paths on 1 frequency.

- **Voice Announcement**

  Audible prompts confirm operations on your radio, allowing you to keep your eyes on the job.

- **Various Analog Signaling Types**

  Various analog signaling types various squelch control types (CTCSS/ CDCSS), thus providing higher function expansion capacity to the analog world.

- **Longer Battery Life**

  In digital mode, the D40 can operate for approximately 8 hours under a duty cycle of 5–5–90.
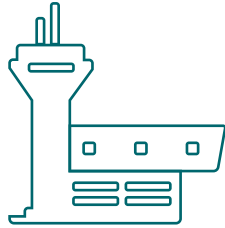
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User Scenario

From the front desk to the factory dock, moving on campus or across the country, the D40 allows more people to maintain close contact easily and effectively. No matter where they work, information can reach anywhere instantly, making decision–making easier; security is enhanced; productivity is improved; service levels are improved; customers are more satisfied.

Hotel

Airport

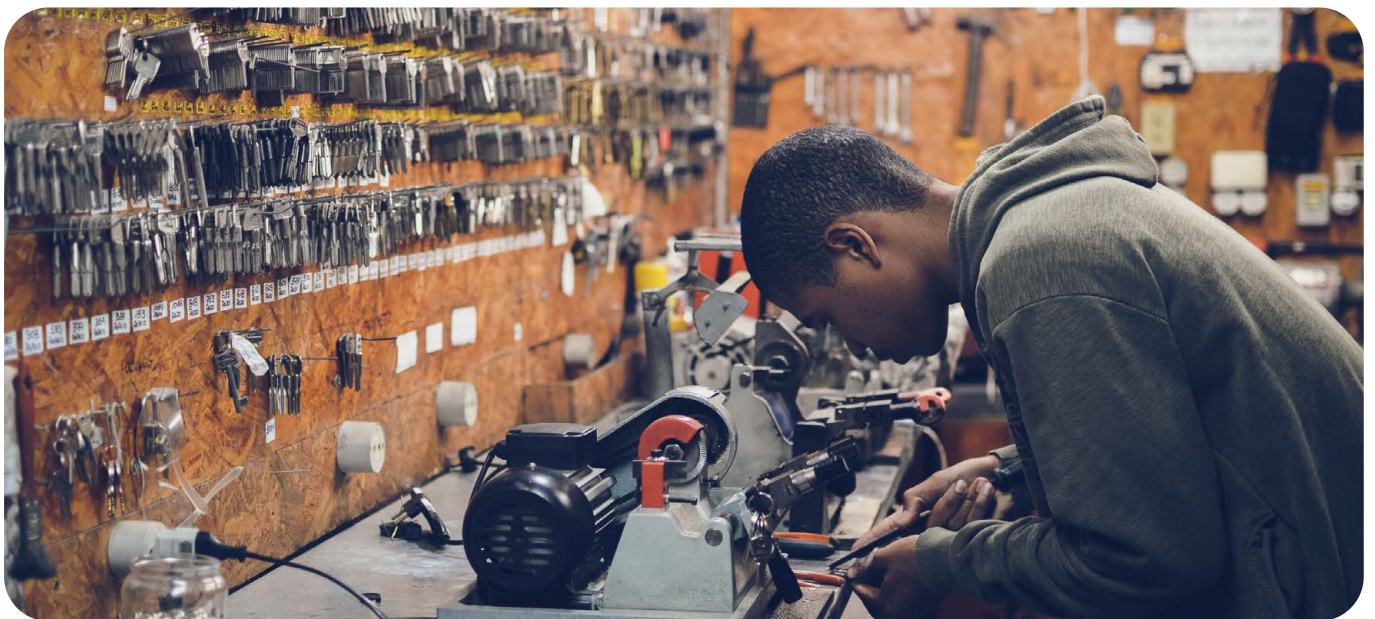Shopping center

Retail

Warehouse

Education

Administrative

Engineering

Product Description

The quality strictly conforms to the US military standard MIL–STD–810 C/D/E/F/G, and the waterproof and dustproof level reaches IP54, which can cope with various working environments and ensure durability.

On/off volume knob

Headphone/data interface

Back clip

Custom side key 2

Charging contacts

Charging card slot

Antenna

Channel selection button

LED indicator

microphone

PTT launch button

speaker

Custom side key 1

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Product Acessories

Choose from a variety of Talkpod accessories designed, tested, and certified to optimize D30 performance. However, in order to ensure the use effect, we recommend using the accessories recommended by Talkpod.

Standard Accessories

TBL05	TBC01	TAT01	TCA02	TCL02	TST01

Optional Accessories

TBL08	TBC02	TCC01	TMC01	TPC02	TBL05E
TAT02	TEM10	TPH01	TPH06		

Product Specification

Transmitter	
Channel spacing	12.5/25kHz
4FSK digital modulation	12.5/25kHz data ony：7K60FXD 12.5kHz data & voice：7K60FXW
Digital protocol	ETSI–TS102 361–1, 2&3
Conducted / radiated emission	−36dBm <1GHz −30dBm >1GHz
Modulation limit	±2.5KHz @ 12.5KHz ±5.0KHz @ 25KHz
FM modulation(Analog emissions designator	11K fF3E @ 12.5kHz 16K fF3E @ 25kHz
Adjacent channel power	60dB @ 12.5KHz 70dB @ 25KHz
Frequency stability	±0.5ppm
FM hum & Noise	12.5kHz @ 11K0F3E

Receiving Part	
Sensitivity (digital)	0.35µV/−117dBm(SINAD) 0.22µV/−110dBm(Typical)
Sensitivity (analog)	0.35µV/−116dBm(SINAD) 0.22µV/−120dBm(Typical)
Adjacent channel selectivity 1T	60dB (12.5KH channel) 70dB (25KHz channel)
Adjacent channel selectivity 2T	60dB (12.5KH channel) 70dB (25KHz channel)
Inter modulation	70dB
Spurious rejection	70dB

General Specifications

Model number	D40-S3-U1	D40-S3-U3
Output Power	5W	0.5W
Frequency Range	400-470MHz	446MHz
Band	UHF	
Zone capacity	3	
Channel spacing	25/12.5 KHz	
Channel capacity	48	
Dimensions	97x58x30(mm)/3.81x2.28x0.98(in)	
Weight	235g/8.28oz	
Battery Life	1650mAh Battery: Talk (5-5-90): 18hrs 2000mAh Battery: Talk (5-5-90): 20hrs	
Battery	7.4V/1650(Standard)/2000(Optional)mAh	
Frequency Stability	±1.5ppm	
Frequency Stability	50Ω	
Increased Capacity	2-slot time division multiple access in 12.5kHz channel	

Audio

Digital vocoder type	AMBE++ or AMBE + 2TM
Speaker	ND3662
Audio IC	ST TDA2822
Audio response	+1~-3dB
Rated audio output	1W
Rated audio distortion	≤3%
Conducted spurious	< -57dBm

Certification

CE FCC & IC ID	CE
Dustproof and waterproof	IP54 Standard/IP66 Optional

The above specifications are tested according to applicable standards. Due to the continuous development of technology, the above index data is subject to change without notice.

Environmental Index

MIL-STD	810C	810D	810E	810F	810G
Low Pressure	500.1/ I	500.2/ I, II	500.3/ I, II	500.4/ I, II	500.5/ I, II
High Temperature	501.1/ I, II	501.2/ I, II	501.3/ I, II	501.4/ I, II	501.5/ I, II
Low Temperature	502.1/ I	502.2/ I, II	502.3/ I, II	502.4/ I, II	502.5/ I, II
Temperature Shock	503.1/ I	503.2/ I	503.3/ I	503.4/ I, II	503.5/ I, II
Solar Radiation	505.1/ I	505.2/ I	505.3/ I	505.4/ I	505.5/ I
Rain	506.1/ I, II	506.2/ I, II	506.3/ I, II	506.4/ I, III	506.5/ I, III
Humidity	507.1/ I, II	507.2/ II, III	507.3/ II, III	507.4	507.5/ II
Salt Fog	509.1/ I	509.2/ I	509.3/ I	509.4	509.5
Dust	510.1/ I	510.2/ I	510.3/ I	510.4/ I, III	510.5/ I
Vibration	514.2/ VIII, X	514.3/ I	514.4/ I	514.5/ I	514.6/ I
Shock	516.2/ I, II, V	516.3/ I, IV	516.4/ I, IV	516.5/ I, IV	516.6/ I, IV

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Talkpod is committed to developing products that help protect the environment.

Talkpod

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