

TP-100D

Digital Portable Two-Way Radio

TalkPod™ TP-100D digital portable two-way radio use Time-Division Multiple-Access digital and DMR technology, operate in both digital and analogue mode, allows easily migrate from analog to digital, and well couple with MOTOTRBO series radios.

In today' s business environment, easy, discreet and prompt communication with your workforce is vital to improving response time, empowering employees to accomplish more in less time and increasing customer satisfaction.



1. Use Time-Division Multiple-Access (TDMA) digital technology which doubles the number of users on a single licensed 12.5kHz channel. Comply with the DMR digital protocol.
2. Operate in both Digital & Analogue mode, allows easily migrate from analog to digital.
3. Provides clearer voice communications in digital mode, throughout the coverage area.
4. Private call, group call and all call in digital mode.
5. Text messaging in digital mode.
6. Direct mode and Repeater mode.
7. Late Entry.
8. Integrates voice and data to increase operational efficiency.
9. Enhanced call management features include emergency, call alert, radio check, radio enable/disable.
10. Transmit admit criteria.
11. Build in CTCSS/DCS signaling in Analog mode.
12. Accessory connector incorporates USB and enhanced audio capability.
13. Tri-color LED Indicator for tx/rx status, calling, scanning.
14. Up to 1000 contacts in Digital mode.
15. Dual priority channel scan operates in both analogue/digital mode.
16. VOX (Optional)
17. Firmware can be updated easily to add new features.
18. Up to 40% longer battery duration.
19. IP65 Water Resistance & Dust Protector.

General Specifications

Model Number	TP-100D
Frequency Range	VHF:136-174MHz; UHF:400-470MHz
Channel Capacity	32
Operating Voltage	DC 7.4V
Operating Temperature	-30°C ~ + 60°C
Store Temperature	-40°C ~ + 85°C
Battery Life (5-5-90 Duty Cycle)	10 hours
Dust-protection and water resistant	IP65
Dimensions (H×W×D) (with battery, without antenna)	113.5mm x 54mm x 33.5mm
Weight (with antenna & battery)	270g

Transmitter

Frequency	VHF:136-174MHz; UHF:400-470MHz
Channel Spacing	12.5KHz
Frequency Stability	+ / - 1.0ppm
Power	1W / 4W
Hum and Noise	- 40dB @12.5KHz
Conducted, radiated spurious emission	-36dBm@ <1GHz, -30dBm@ >1GHz
Adjacent Channel Power	-60dB @12.5KHz
Adjacent Transient Channel Power	-50dB @12.5KHz
FM Modulation Mode	12.5KHz: 11K0F3E
4FSK Digital Mode	12.5KHz (data only): 7K60FXD 12.5KHz (data + voice) : 7K60FXE
Modulation Maximum Deviation	2.5KHz @12.5KHz
Nonactive Slot Power	-57dBm
Audio Response	+1dB ~ -3dB
Audio Distortion	3%v (Type)
Digital Protocol	ETSI TS 102 361-1, -2, -3
Vocoder Type	AMBE +2™

Receiver

Analog Sensitivity	0.35uV/-116dBm (20 dB SINAD) 0.22uV/-120dBm (Type)
Digital Sensitivity	0.3uV/-117.4dBm (BER 5%) 0.7uV/-110dBm (BER 1%)
Intermodulation	TIA603C: 70dB ETSI: 65dB
Adjacent Channel Selectivity	TIA603C: 65dB @12.5KHz ETSI: 60dB @12.5KHz
Co-Channel rejection	12dB @12.5KHz
Spurious Response rejection	TIA603C: 75dB ETSI: 70dB
Conducted spurious emission	-57dBm@ < 1GHz, -47dBm @ > 1GHz
Blocking	84dB
Rated Audio Power	1W
Audio Response	+1dB ~ -3dB
Rated Audio Distortion	3% (Type)

* Specifications subject to change without notice.