

PD502 Digital Portable Radio







PD502

The PD502 is an open-standard DMR radio capable of providing quality voice communication in a design approved to IP54 and MIL-STD 810 testing. The Hytera-patented pseudo-trunking maximizes channel usage and the long lasting battery life wields approximately 16 hours under a 5-5-90 duty cycle in digital mode. PD502 is the ideal solution for organizations looking for a cost-effective way to migrate to clear digital communication.

Applications

Hotel

Product Features

Smaller, Sleeker, Lighter

The size is 4.6 X 2.17 X 1.1 inches, dual-color injection, weight is 9.7oz.

Long Battery Life

In digital mode, the PD502 works for approximately 16 hours under a duty cycle of 5-5-90.

Rugged & Reliable

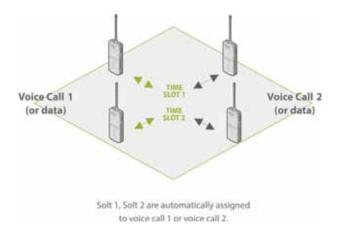
Complies with MIL-STD-810 C/D/E/F/G standards.

Advanced Signaling

Supports multiple advanced analog signaling modes, including HDC1200, 2-Tone and 5-Tone, providing better integration into existing analog radio fleets.

Pseudo Trunk

This virtual trunking feature allocates a free timeslot for urgent communications. This effectively enhances frequency efficiency and allows you to communicate in a timely manner in emergency situations. See example below.



Secure Communication

Provides basic digital encryption and Scrambler feature in analog mode.

DMRA Data Service

The data protocol is fully compliant to the DMRA standard.

One Touch Call/Text

Supports One Touch features that include Preprogrammed Text Messages, Voice Calls and Supplementary Features.

Supplementary Features (optional)

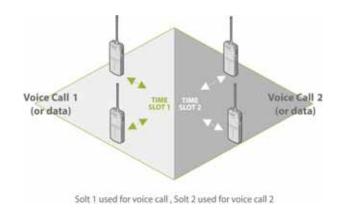
The PD502 can decode radio enable, radio disable, and remoter monitor, as well as Priority Interrupt.

Dual Mode (Analog & Digital)

Dual modes operation allows the programming of both analog to digital migration.

DMO True 2-Slot

In direct mode Hytera can provide 2-slot communication, which allows for 2 talk paths on 1 frequency. See example below.



Accessories

Included

- · Li-Ion Battery
- MCU Rapid-rate Charger
- Power Adapter
- Antenna
- Belt Clip
- Leather Strap



Remote Speaker Microphone (IP55) SM13M1



MCU Multi Unit Charger (for Thick Batteries) MCA08



Programming Cable (USB Port) PC63



Ex earset with in-Line Microphone EHM18

Specifications

Frequency Range	VHF: 136 - 174MHz UHF: 400 - 470MHz	
Channel Capacity	32	
Zone Capacity	3	
Channel Spacing	25 / 20 / 12.5KHz	
Operating Voltage	7.4V	
Battery	1500mAh (Li-lon)	
Battery Life (5/5/90)	Analog	Approx. 11hrs
	Digital	Approx. 16hrs
Frequency Stability	± 0.5ppm	
Antenna Impedance	50 Ω	
Dimensions (HxWxD)	4.53 x 2.13 x 1.06 inches	
Weight	9.17oz	
FCC ID	136-174MHz: Pending 400 - 512MHz: YAMPD50XU1	
Industry Canada ID	138-174MHz: Pending 406.1 - 470MHz: 8913A-PD502U1	
	Channel Capacity Zone Capacity Channel Spacing Operating Voltage Battery Battery Life (5/5/90) Frequency Stability Antenna Impedance Dimensions (HxWxD) Weight FCC ID	Channel Capacity Zone Capacity Channel Spacing Operating Voltage Battery Battery Life (5/5/90) Digital Frequency Stability Antenna Impedance Dimensions (HXWXD) Weight FCC ID Industry Capada ID

ions	Operating Temperature	-22°F ∼ +140°F
Environmental Specifications	Storage Temperature	-40° F∼ +185° F
peci	ESD	IEC 61000 - 4 - 2 (level 4) ± 8kV(contact) ; ± 15kV (air)
ıtal S	American Military Standard	MIL-STD-810 C/D/E/F/G
men	Dust & Water Intrusion	IP54 Standard
viron	Humidity	Per MIL-STD-810 C/D/E/F/G Standard
En	Shock & Vibration	Per MIL-STD-810 C/D/E/F/G Standard

Transmitter	RF Power Output	VHF: High 5W - Low 1W UHF: High 4W - Low: 1W)	
	FM Modulation (Analog Emissions Designator)	11K fF3E @ 12.5KHz; 14KfF3E @ 20KHz; 16KfF3E @ 25KHz	
	4FSK Digital Modulation (Digital Emissions Designator)	12.5KHz Data Only: 7K6fFXD 12.5KHz Data & Voice: 7K6fFXW	
	Conducted/Radiated Emission	-36dBm<1GHz -30dBm>1GHz	
	Modulation Limiting	± 2.5KHz @ 12.5KHz ; ± 4.0KHz @ 20KHz ; ± 5.0KHz @ 25KHz	
	FM Hum & Noise	40dB @ 12.5KHz ; 43dB @ 20KHz ; 45dB @ 25KHz	
	Adjacent Channel Power	60dB @ 12.5KHz 70dB @ 20/25KHz	
	Audio Response	+1 ~ -3dB	
	Audio Distortion	≦3%	
	Digital Vocoder Type	AMBE++ or SELP	
	Digital Protocol	ETSI-TS102 361-1, 2&3	

Receiver	Sensitivity	Analog	0.22 m V (12dB SINAD); 0.22 m V (Typical) (12dB SINAD); 0.4 m V (20dB SINAD)
		Digital	0.22 m V/BER5%
	Selectivity TIA-603 ETSI	60dB @ 12.5KHz / 70dB @ 20/25KHz 60dB @ 12.5KHz / 70dB @ 20/25KHz	
	Intermodulation TIA-603 ETSI	70dB @ 12.5/20/25KHz 70dB @ 12.5/20/25KHz	
	Spurious Response Rejection TIA-603 ETSI	70dB @ 12.5/20/25KHz 65dB @ 12.5/20/25KHz	
	S/N	40dB @ 12.5KHz ; 43dB @ 20KHz ; 45dB @ 25KHz	
	Rated Audio Power Output	0.5W	
	Rated Audio Distortion	≦3%	
	Audio Response	+1 ~ -3dB	
	Conducted Spurious Emission	<-57dBm	

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