

 SERIES

Hytera 



Digital Portable Radio

PD5 *i* SERIES

PD562i

PD502i

- Analog / Digital Dual Mode Operation for Easy Transition to Digital
- Pseudo Trunk Enhances System Access Without Additional Infrastructure

DMR RATED
DIGITAL MOBILE RADIO ASSOCIATION **IP54**

www.hytera.us



The PD5i Series is an open-standard DMR radio capable of providing quality voice communication in a design approved to IP54 and MIL-STD 810 testing. The radio maximizes channel usage and the long lasting battery life yields approximately 16 hours under a 5-5-90 duty cycle in digital mode. The PD5i Series is the ideal solution for organizations looking for a cost-effective way to migrate to clear digital communication.

Applications

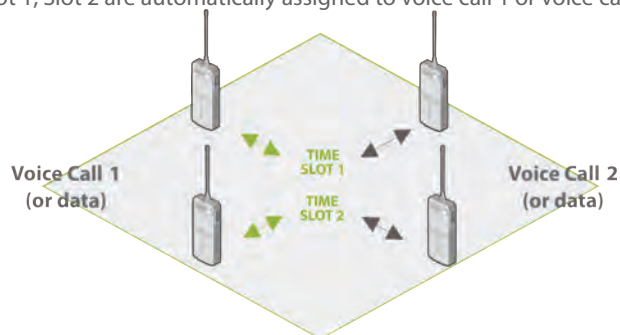
Hotel Education Security Warehouse Retail Events



Product Features

- Smaller, Sleeker, Lighter**
 The PD502i is 4.53 x 2.13 x 1.06 inches, weighing 9.7oz. The PD562i is 4.53 x 2.13 x 1.18 inches, weighing 9.9oz. The PD5i Series has dual-color injection molding.
- Long Battery Life**
 In digital mode, the PD5i Series can operate 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 and is IP54 (5: Generally protected against dust; 4: Protected against the effects of light rain or minor water splashes) ensuring outstanding performance.
- Advanced Signaling**
 Supports multiple advanced analog signaling modes, including HDC1200, 2-Tone and 5-Tone, providing better integration into existing analog radio fleets.
- 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.
- 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.
- Supplementary Features (Option License)**
 The PD5i Series 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.
- Additional Features**
 The PD5i Series support Radio Registration Service (RRS), Emergency Call, Lone Worker and Single Site XPT operation (via software licence)

Slot 1, Slot 2 are automatically assigned to voice call 1 or voice call 2



Accessories

Included

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

Optional



Remote Speaker
Microphone (IP55)
SM13M1



MCU Multi Unit Charger
(for Thick Batteries)
MCA08



Programming Cable
(USB Port)
PC63



Battery 2000mAh
(Li-Ion)
BL2010

See website for full list

Specifications

General	Frequency Range	VHF: 136 - 174MHz UHF: 400 - 470MHz	
	Channel Capacity	PD502i	32
		PD562i	512
	Zone Capacity	PD502i	3
		PD562i	32
	Channel Spacing	25 / 20 / 12.5KHz	
	Operating Voltage	7.4V	
	Battery	1500mAh (Li-Ion)	
	Battery Life (5/5/90)	Analog	Approx. 11hrs
		Digital	Approx. 16hrs
	Frequency Stability	± 0.5ppm	
	Antenna Impedance	50 Ω	
	Dimensions (HxWxD)	PD502i	4.53 x 2.13 x 1.06 inches
		PD562i	4.6 x 2.17 x 1.18 inches
Weight	PD502i	9.17oz	
	PD562i	9.9oz	
FCC ID	See website for full list		
Industry Canada ID	See website for full list		

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

GPS	TTF (Time To First Fix) Cold Start	<1 minute
	TTF (Time To First Fix) Hot Start	<10 seconds
	Horizontal Accuracy	<10 meters

Transmitter	RF Power Output	VHF: High 5W - Low 1W UHF: High 4W - Low: 1W
	FM Modulation (Analog Emissions Designator)	11K φF3E @ 12.5KHz; 14KφF3E @ 20KHz; 16KφF3E @ 25KHz
	4FSK Digital Modulation (Digital Emissions Designator)	12.5KHz Data Only: 7K6φFXD 12.5KHz Data & Voice: 7K6φFXW
	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+2™
	Digital Protocol	ETSI-TS102 361-1, 2&3

Receiver	Sensitivity	Analog	0.22 μ V (12dB SINAD); 0.22 μ V (Typical) (12dB SINAD); 0.4 μ V (20dB SINAD)
		Digital	0.22 μ 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 65dB @ 12.5/20/25KHz	
	Spurious Response Rejection TIA-603 ETSI	70dB @ 12.5/20/25KHz 70dB @ 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		

Your Local Dealer

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20KHz / 25KHz will not be available on new equipment in the U.S. after January 1st, 2011

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