i 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 DIGITAL MOBILE RADIO ASSOCIATION RATED IP54

www.hytera.us

PD5 iSERIES

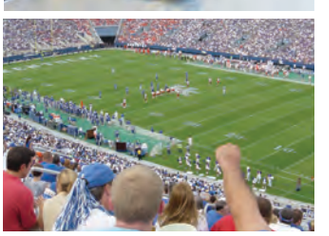
The PD5i Series is an open-standard DMR radio capable of providing quality voice communication in a design approved to IP54 and MIL-STD 810 testing. The radio maximizes channel usage and the long lasting battery life yields approximately 16 hours under a 5-5-90 duty cycle in digital mode. The PD5i Series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

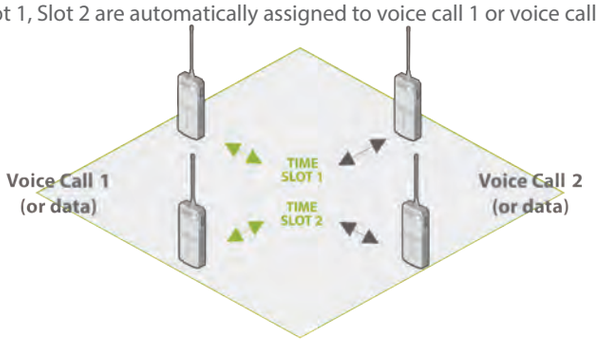
- **Pseudo Trunk**
  This virtual trunking feature allocates a free timeslot for urgent communications. This effectively enhances frequency efficiency and allows you to communicate in a timely manner in emergency situations. See example below.

- **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

See website for full list

Optional

Remote Speaker Microphone (IP55)
SM13M1

MCU Multi Unit Charger (for Thick Batteries)
MCA08

Programming Cable (USB Port)
PC63

Battery 2000mAh (Li-Ion)
BL2010

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 Specifi ations	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	TTFF (Time To First Fix) Cold Start	<1 minute
	TTFF (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	0.22μ V (12dB SINAD) ; 0.22μ V (Typical) (12dB SINAD); 0.4μ V (20dB SINAD)
		Digital	0.22μ 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	

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

Hytera reserves the right to change product designs or specifications at any time. If you have any questions regarding the accuracy of this information please contact your local sales representative or Hytera directly.

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