





Pseudo Trunk Enhances System Access Without Additional Infrastructure

PD562

PЗ

CH AI

Hytera



Hytera

PD502

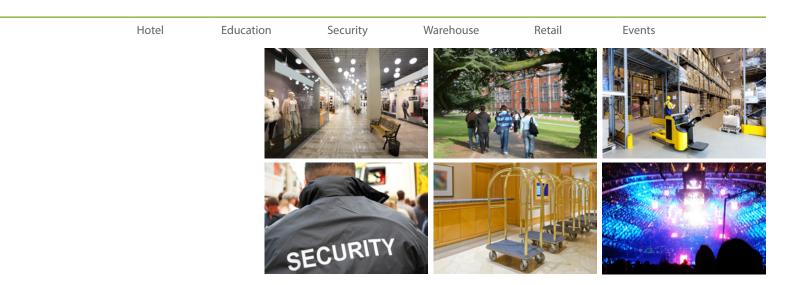
PD502



PD5 Series

The PD5 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 Hytera-patented pseudotrunking maximizes channel usage and the long lasting battery life yields approximately 16 hours under a 5-5-90 duty cycle in digital mode. The PD5 Series is the ideal solution for organizations looking for a cost-effective way to migrate to clear digital communication.

Applications



Product Features

Smaller, Sleeker, Lighter

The PD502 is 4.53 x 2.13 x 1.06 inches, weighing 9.7oz. The PD562 is 4.53 x 2.13 x 1.18 inches, weighing 9.9oz. The PD5 Series has dual-color injection molding.

Long Battery Life

In digital mode, the PD502 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.

• Supplementary Features (optional) The PD502 can decode radio enable, radio disable, and remoter monitor, as well as Priority Interrupt.

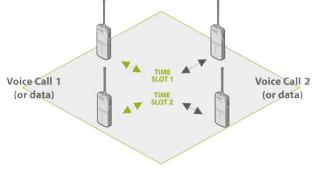
Dual Mode (Analog & Digital)

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

• 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.

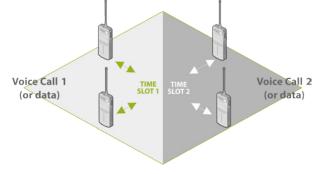
Slot 1, Slot 2 are automatically assigned to voice call 1 or voice call 2



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.

Slot 1 is used for voice call, Slot 2 is used for voice call 2



Accessories

Included

- Li-lon Battery
- MCU Rapid-rate Charger
- Power Adapter
- Antenna
 Dalt Cline
- Belt Clip
- Leather Strap



Remote Speaker Microphone (IP55) SM13M1



MCU Multi Unit Charger (for Thick Batteries) MCA08



Programming Cable (USB Port) PC63



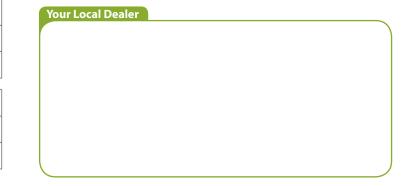
Battery 2000mAh (Li-lon) BL2010

Specifications

	Frequency Range	VHF: 136 - 174MHz UHF: 400 - 470MHz		
	Channel Capacity	PD502	32	
		PD562	512	
	Zone Capacity	PD502	3	
		PD562	32	
	Channel Spacing	25 / 20 / 12.5KHz		
	Operating Voltage	7.4V		
	Battery	1500mAh (Li-lon)		
General	Battery Life (5/5/90)	Analog	Approx. 11hrs	
Gen		Digital	Approx. 16hrs	
	Frequency Stability	±0.5ppm		
	Antenna Impedance	50 Ω		
	Dimensions (HxWxD)	PD502	4.53 x 2.13 x 1.06 inches	
		PD562	4.6 x 2.17 x 1.18 inches	
	Weight	PD502	9.17oz	
		PD562	9.9oz	
	FCC ID	See website for full list		
	Industry Canada ID	See website for full list		
su	Operating Temperature	-22° F ~ +140° F		
al Specifications	Storage Temperature	-40° F~ +185° F		
oecif	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		
Environmen	Humidity	Per MIL-STD-810 C/D/E/F/G Standard		
2 E	Shock & Vibration	Per MIL-STD-810 C/D/E/F/G Standard		
	TTFF (Time To First Fix) Cold Start	<1 minute		
GPS	TTFF (Time To First Fix) Hot Start	<10 seconds		

Transmitter	RF Power Output	VHF: High 5W - Low 1W UHF: High 4W - Low: 1W	
	FM Modulation (Analog Emissions Designator)	11К фF3E @ 12.5KHz ; 14КфF3E @ 20KHz ; 16КфF3E @ 25KHz	
	4FSK Digital Modulation (Digital Emissions Designator)	12.5KHz Data Only: 7КбфFXD 12.5KHz Data & Voice: 7КбфFXW	
	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 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		



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GSA Contract Holder



Horizontal Accuracy

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

<10 meters

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