i SERIES

Hytera

Versaltile Digital Portable Two-Way Radios

PD6 i SERIES

PD602i

PD662i

PD682i

- Durable and Feature-Rich in an Innovative, Compact Design
- GPS Option and Integration with Data Applications

DMR RATED IP67

www.hytera.us

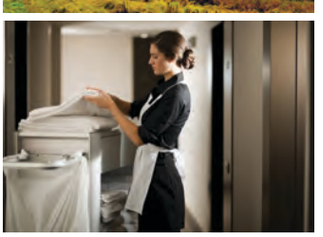
PD6 iSERIES

The PD6i Series is an open-standard DMR radio rich in features for both voice and data communication in a design approved to rigorous IP67 and MIL-STD 810 testing. It is the ideal solution for organizations looking for an affordable migration from analog to digital technology. The Pseudo Trunking feature maximizes channel usage. The PD6i Series G also comes with an optional GPS chip that allows the radio to integrate with Hytera Dispatch System or other 3rd party GPS dispatching software.

Applications

Construction Education Hospital Hotel Security Factories Farming Forestry






Product Features

- **Over-the-air Alias**
  PD6i Series can support sending radio alias over the air when PTT. The radio receives the call can decide to create a new contact or overwrite the old one automatically. It gives a great convenience to the customer to manage the fleet with the correct contact stored in each radio without touching each unit for re-programming.

- **Voice with GPS**
  PD6i is able to transmit GPS data in the same channel during transmitting voice. This gives the customer an option to upload location information once pushing to talk. It helps to target where the speaker is immediately.

- **OTAP**
  OTAP for Conventional Repeater System: Over the Air Programming modifies the parameters of remote terminals through the air interface signaling, including digital conventional channel parameters and part parameters of the terminal. It saves time and manpower to operate and maintain a radio system.

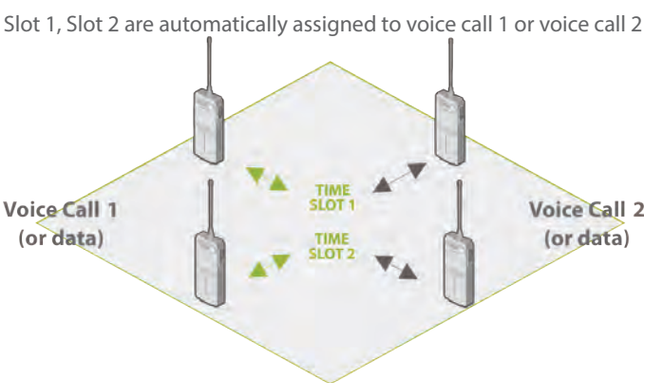
- **Secure Communication**
  Allows basic/advanced end-to-end encryption and over the air encryption in digital mode. Allow scrambler feature in analog mode. (A feature for both DMR conventional and Tier III Trunked operation mode).

- **Out-of-range Notification in RMO**
  A radio is always notified when it has left the repeater coverage. The users can realize if they are in the talk range all the time by paying attention to the alert tone.

- **Enhanced Quick GPS**
  Compressed GPS data can be packaged in a single frame to greatly increase the capacity up to 450 units/min, which is tripled in DMR Tier II system. This enhancement improves channel efficiency for data and reduce hardware cost.

- **Trunked & Conventional Switch**
  By pressing a single button or twisting the channel knob, it enables radios to be switched between DMR Tier 3 trunking and conventional mode without restarting. During this process, registration & deregistration in trunking system is done automatically, and over the air authentication is still available.

- **Optimized Push-to-talk**
  It allows a radio to set up audio buffer and store what the user speaks before the call is established. Then it sends the stored audio together with the coming real-time audio after the call is established. Therefore, users can talk right after pressing PTT without waiting for the "go-ahead tone". This feature also enhances the handover function without dropping communications in Tier III system during sites switch.



Accessories

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

See website for full list

Optional


Detachable Earpiece with Transparent Acoustic Tube
EHN22


MCU Multi-Unit Charger (for Thick Battery)
MCA08


Programming Cable (USB Port)
PC45


Battery 2000mAh (Li-Ion)
BL2010

Specifications

General	Frequency Range	VHF: 136 - 174MHz UHF1: 400 - 527MHz	
	Channel Capacity	PD602i	48
		PD662i PD682i	1024
	Zone Capacity	PD602i	3
		PD662i PD682i	64
	Channel Spacing	25 / 20 / 12.5KHz	
	Operating Voltage	7.4V	
	Battery	2000mAh (Li-Ion)	
	Battery Life (5/5/90)	Analog	Approx. 11hrs
		Digital	Approx. 16hrs
	Frequency Stability	±0.5ppm	
	Antenna Impedance	50 Ω	
	Dimensions (HxWxD)	PD602i	4.7 x 2.13 x 1.1 inches
		PD662i PD682i	4.8 x 2.17 x 1.1 inches
	Weight	PD602i	10.23oz
		PD662i PD682i	10.93oz
	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	IP67 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: 7KϕFXW
	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	
	Blocking TIA-603 ETSI	90dB 84dB	
	S/N	40dB @ 12.5KHz ; 43dB @ 20KHz ; 45dB @ 25KHz	
	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

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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