

Digital Migration Radio PD6 Series

DMR Standard Radio, Feature-Rich, Innovative Design,
Compact Size, Integrates with Hytera Applications

New Software! TDMA Direct Mode removed—high quality as always!



Features

Small, Sleek, Light

The radio is 119 X 54 X 27mm (PD60X)/133 X 55 X 27mm (PD66X/68X) and 290g (PD60X)/310g (PD66X/68X), and with metal frame.



IP67 Compliance

The radio is IP67 certificated and can withstand up to 1m submersion for 30 minutes.

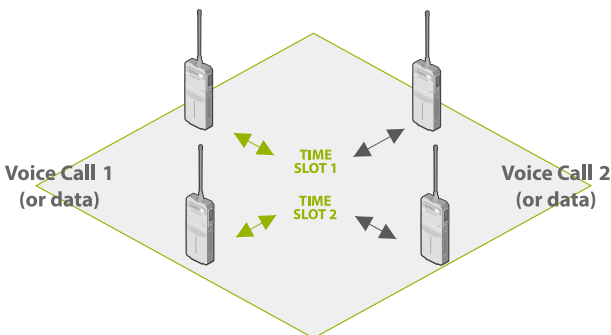


Rugged & Reliable

The radio complies with MIL-STD-810 C/D/E/F/G standards.

Pseudo Trunk

The free slot can be allocated to enhance frequency efficiency and timely response under emergency.



Solt 1, Solt 2 are automatically assigned to voice call 1 or voice call 2.

Full Band

Expanded frequency range of 400-527MHz.

Dual Modes (Analog & Digital)

The radio can work in both analog and digital modes for a smooth analog-to-digital migration.

Secure Communication

The radio supports basic encryption in digital mode and scrambler feature in analog mode.

Advanced Signaling

The radio can transmit various analog signals, including HDC1200, 2-tone and 5-tone, for better communication with analog users.

DMRA Data Service

The data protocol is fully compliant to DMRA standard.

GPS Positioning (Optional)

The built-in GPS module supports GIS applications.

Man Down (Optional)

The radio automatically alerts other team members if it tilts over the specified gradient and is not placed upright within the time, or stays motionless within the specified gradient.

Secondary Development

The third party partner can develop applications via the accessory port to extend radio functionality.

One Touch Call/Text

The radio supports One Touch Call/Text features to transmit call or text message via the programmed key. PD68X supports input 256 character message via keyboard.

Supplementary Features

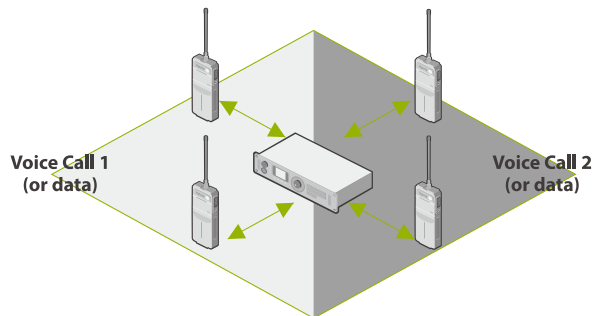
The radio supports radio enable, radio disable, remote monitor, alert call and radio check.

Priority Interruption

The radio can interrupt an ongoing call on the channel to transmit a new call or data services.

Dual Capacity in TMO

Hytera provides 2-slot solution in Repeater Mode. The radio can use both slots for the communication.



Solt 1 used for voice call , Solt 2 used for voice call 2

Small, Sleek, Light

PD60X: 119 x 54 x 27mm, 290g

PD66X/68X: 122 x 55 x 27mm, 310g

Metal Frame

Metal frame design

Smooth texture

Comfortable to hold and use



Target Markets



Construction

The radio delivers clear voice at noisy construction site.



Forestry

Features such as man down, lone worker and emergency secure your safety when you work alone or on remote locations.



Bank

Complete dispatch system provides security recording and monitoring.



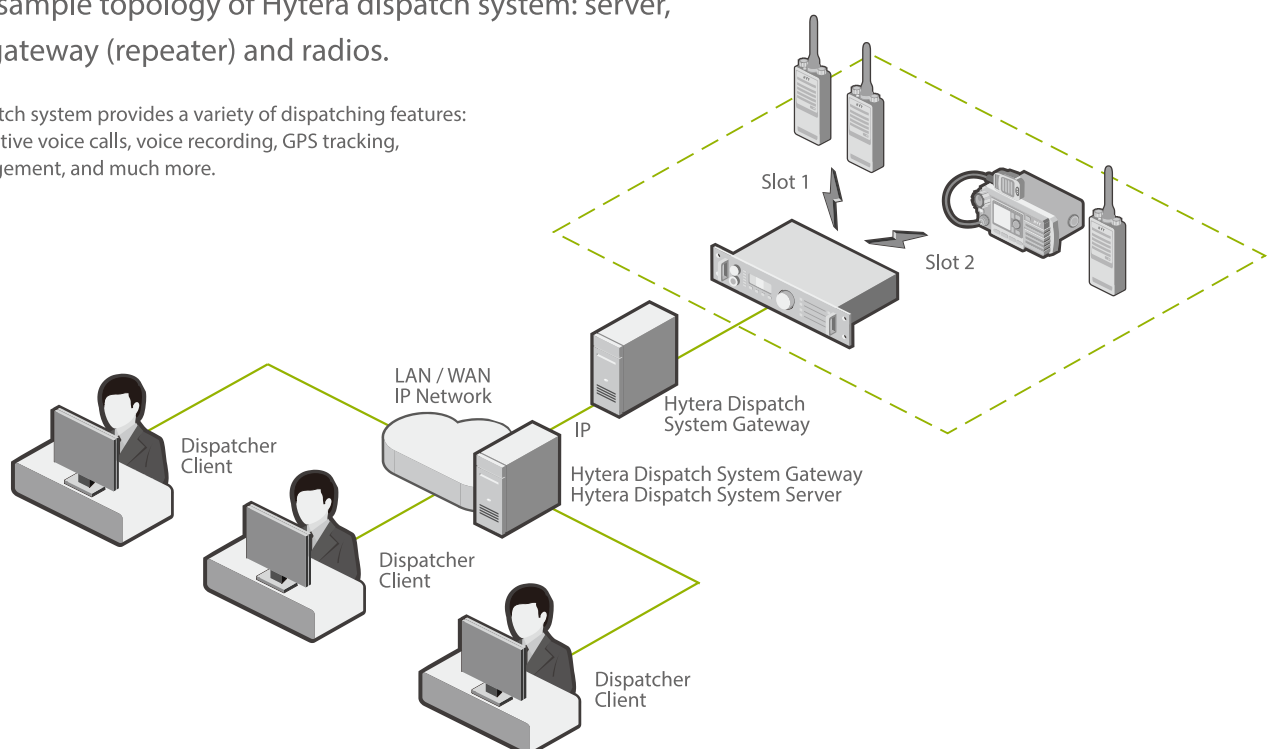
Factory

The IP67 rating enables the radio to operate normally in the environments with dust and water.

Applications

This is a sample topology of Hytera dispatch system: server, clients, gateway (repeater) and radios.

Hytera dispatch system provides a variety of dispatching features: such as selective voice calls, voice recording, GPS tracking, alarm management, and much more.



Accessories



Pictures above are for reference only and may vary from actual products.

BL1504	Li-ion Battery (1500mAh)	EHN21	Remote C-Earset
BL2010	Li-ion Battery (2000mAh)	ESN14	Remote Earbud
RO03	Strap	EHN20	Remote Swivel Earset
MCA08	MCU Multi-Unit Charger (for Thick Battery)	EAN22	Detachable Earpiece with Transparent Acoustic Tube
MCA05	Battery Optimizing System	PC45	Programming Cable (USB Port)
BC08	Belt Clip(PD60X)	NCN011	Nylon Carrying Case (half-folded, non-swivel, black)
BC22	Belt Clip(PD66X, PD68X)	CH10A07	General MCU Rapid-rate Charger (for Li-Ion/Ni-MH Batteries)
ESW01-N2	Wireless Earset Kit	Adapter	
Antenna			

High-Capacity Battery & Battery Charger:

BL1502 Li-ion Battery 1500mAh; BL2010 Li-ion Battery 2000mAh, MCA05 Battery Optimizing System & MCA08 MCU Multi-Unit Charger (for Thick Battery) . A large capacity battery is the best choice if you require long-time operation. The 2000mAh Li-ion battery for PD6 series ensures up to 16 hours of work.

Audio Accessories:

EHN21 Remote C-Earset, ESN14 Remote Earbud, EHN20 2-wire Surveillance Earpiece with Transparent Acoustic Tube (Black), EAN22 Detachable Earpiece with Transparent Acoustic Tube. PD6 Series have a variety of audio accessories for flexible use in different environments.

Specifications

General	
Frequency Range	UHF: 400-527MHz VHF: 136-174MHz
Channel Capacity	1024
Zone Capacity	16 (PD60X, each with a maximum of 16 channels) 64 (PD66X/PD68X, each with a maximum of 256 channels)
Channel Spacing	25/20/12.5kHz
Operating Voltage	7.4 V
Battery(Li-Ion)	1500mAh/2000mAh
Battery Life (5/5/90)	Digital: 16 Hours @1500mAh 21 Hours @2000mAh Analog: 11 Hours @1500mAh 14.5 Hours @2000mAh
Weight	PD60X: 290g (1500mAh) 309g (2000mAh) PD66X/PD68X: 310g (1500mAh) 329g (2000mAh)
Dimensions	PD60X: 119 x 54 x 27 mm (1500mAh) 119 x 54 x 31 mm (2000mAh) PD66X/PD68X: 122 x 54 x 27 mm (1500mAh) 122 x 54 x 31 mm (2000mAh)
Frequency Stability	±0.5 ppm
Antenna Impedance	50Ω
Receiver	
Sensitivity (Analog)	0.3μV (12dB SIN AD) 0.22μV (Typical) (12dB SIN AD) 0.4μV (20dB SIN AD)
Sensitivity (Digital)	0.22μV/BER 5%
Adjacent Selectivity	TIA-603 60dB @ 12.5kHz/70dB @ 20 & 25kHz
	ETSI 60dB @ 12.5kHz/70dB @ 20 & 25kHz
Spurious Response Rejection	TIA-603 70dB @ 12.5/20/25kHz
	ETSI 70dB @ 12.5/20/25kHz
Inter-Modulation	TIA-603 70dB @ 12.5/20/25kHz
	ETSI 65dB @ 12.5/20/25kHz
Hum & Noise	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

Transmitter	
RF Power Output	UHF: 1/4W VHF: 1/5W
FM Modulation	11K0F3E @ 12.5kHz 14K0F3E @ 20kHz 16K0F3E @ 25kHz
4FSK Digital Modulation	12.5kHz Data Only: 7K60FXD 12.5kHz Data & Voice: 7K60FXW
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
Environmental	
Operating Temperature	-30°C ~ +60°C
Storage Temperature	-40°C ~ +85°C
ESD	IEC 61000-4-2 (Level 4) ±8kV (Contact) ±15kV (Air)
American Military Standard	MIL-STD-810 C/D/E/F/G
Dustproof & Waterproof	IP67
Humidity	Per MIL-STD-810 C/D/E/F/G
Shock & Vibration	Per MIL-STD-810 C/D/E/F/G
GPS	
TTF (Time To First Fix) Cold Start	<1 minute
TTF (Time To First Fix) Hot Start	<10 seconds
Horizontal Accuracy (5 satellites visible at nominal -130dBm)	<5m (50% probable) <10m (95% probable)

All specifications are subject to change without notice due to continuous development.

PD60X/66X/68X, X=0, 2, 5, 6 or 8, model number varies geographically. For details, please contact our regional sales representatives.



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