

Features

Small, Sleek, Light

The size is 119 X 54 X 27mm (PD60X)/133 X 55 X 27mm(PD66X/68X), PC & Metal frame, weight is 290g (PD60X)/310g (PD66X/68X).



IP67 Compliance

IP67 rated withstanding up to 1m submersion for 30 minutes or more.

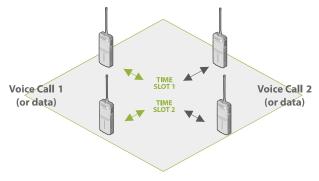


Rugged & Reliable

Compliant with MIL-STD-810 C/D/E/F/G standards.

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.



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

Full Band

Expanded frequency range of 400-527MHz.

Dual Mode (Analog & Digital)

Dual mode (analog & digital) operation ensures a smooth analog to digital migration.

Secure Communication

Provides basic/advanced digital encryption and Scrambler feature in analog mode.

Advanced Signaling

Supports multiple advanced analog signaling modes, including HDC1200, 2-Tone and 5-Tone, providing better integration into existing analog radio fleets.

DMRA Data Service

The data protocol is fully compliant to DMRA standard.

GPS Positioning (Factory Option)

The built-in GPS module supports GIS applications.

Man Down (Factory Option)

When a user falls down, the radio can automatically alert others.

Further Development Port

The reserved side port in PD6 Series allow users or any third party partner to further develop other helpful applications to extend radio functionalities.

One Touch Call/Text

Supports One Touch features that comprise of Preprogrammed Text Messages, Voice Calls and Supplementary Features. PD68X supports input 256 character message via keyboard.

Supplementary Features

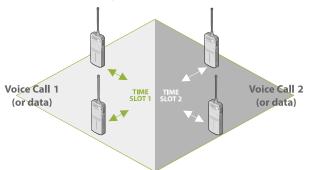
PD6 Series provide radio enable/disable, remoter monitor and Priority Interrupt.

Radio Priority-Based Interruption

Enable an administration or manager radio to interrupt calls for emergency or urgent communication.

DMO True 2-Slot

In DMO Hytera can provide 2-slot communication, which allows for 2 talk paths on 1 frequency.



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Target Markets



Construction

At a noisy construction site a good voice quality radio can make all the difference.



Forestry

Safety functions (man down, lone worker, emergency alarm) give you peace of mind when working alone or on remote locations.



Bank

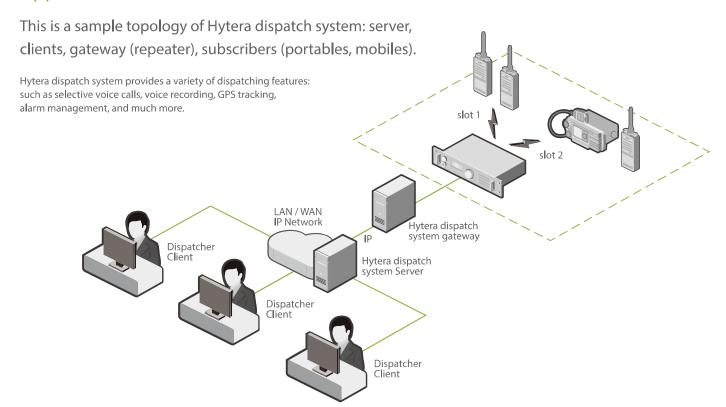
Complete dispatch system can provide security recording and monitoring.



Factory

Highest dust and water rating (IP67) to withstand dust and liquid impact on the factory floor.

Applications





EHN21 Remote C-Earset BL1504 Li-ion Battery (1500mAh) BL2010 ESN14 Remote Earbud Li-ion Battery (2000mAh) RO03 EHN20 Remote Swivel Earset EAN22 Detachable Earpiece with Transparent Acoustic Tube MCA08 MCU Multi-Unit Charger (for Thick Battery) 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**

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). For users requiring long-time operation, a high-capacity battery with battery optimizing system is undoubtedly the best match.

The 2000mAh Li-ion battery for PD6 Series ensure up to 16 hours of work.

Audio Accessories:

Antenna

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		VHF1: 136-174MHz UHF1: 400-527MHz	
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-lon)		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)		0.22μV (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	101=10 1	
RF Power Output	VHF High power 5W VHF Low power 1W UHF High power 4W UHF Low power 1W	
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++ or SELP	
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 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	

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











Hytera Communications Corporation Limited

Address: Hytera Tower, Hi-Tech Industrial Park North, Beihuan Rd., Nanshan District, Shenzhen, China

Tel: +86-755-2697 2999 Fax: +86-755-8613 7139 Post: 518057 Http://www.hytera.com Stock Code: 002583.SZ









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