Hytera

ENRICHING YOUR DIGITAL EXPERIENCE

NEW MEMBER TO WORLD'S MOST COMPLETE DMR PORTFOLIO

PD98X

www.hytera.com

PD98X Highlight

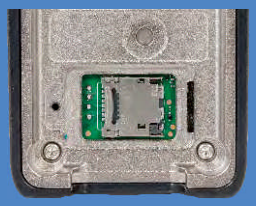
Brand New Features

01

Micro SD Card

Based on micro SD storage technology, PD98X helps customer to record and store critical voice call or data.

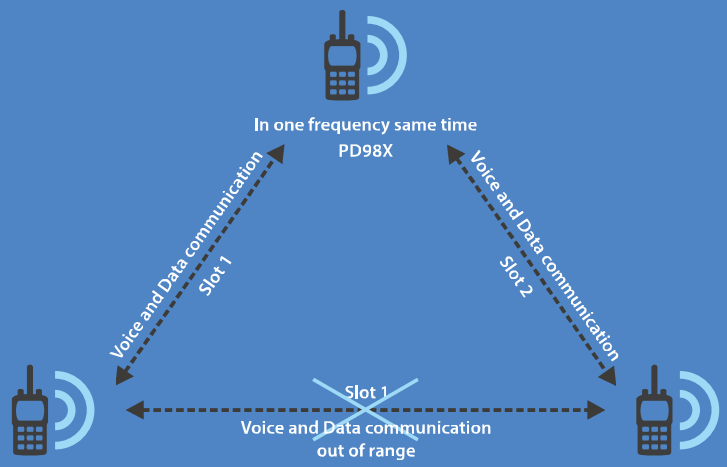
PD98X supports maximum 32G micro SD card, to record up to 576 hours digital/ analog voice.



02

Single Frequency Repeater Mode

Based on Interference cancellation technique, PD98X can use one slot to receive signal and another slot to transmit it in the same frequency at the same time in DMO mode to extend communication distance.



03

Bluetooth 4.0

PD98X has built in Bluetooth 4.0, which not only supports audio transmission, but also allows data transmission, such as programming via Bluetooth etc.

04

Full Duplex Call

PD98X can make full duplex call with PD98X, telephone or cell phone.

05

RTC Clock

RTC clock feature allows customers to check the accurate time of received message and call.

06

Smart Battery

Compared with PD78X, PD98X support smart battery, which makes it easier to monitor the battery status, such as battery life time and remaining charge time by smart battery charge. This also reduces the charging time dramatically.

Features

Base Information

- Full Keypad, Color Screen, 1024 Channels
- Analog and Digital Dual Mode
- Bluetooth (4.0) Audio
- Bluetooth (4.0) Data*
- Integrated GPS
- Integrated GLONASS
- Pre-programmed Text Messaging
- Freeform Text Messaging
- Option Board
- Roaming
- Scan
- Voice Notification

Audio

- Auto Gain Control
- Acoustic Feedback Suppressor
- Loudness Quality Optimization
- Multi Band Equalization*
- Noise Reduction Technology

Safety

- Emergency Alarm
- Dedicate Emergency Button
- Alert Call
- Man Down
- Lone Worker
- Basic Encryption
- Enhanced Encryption(40bit)
- Enhanced Encryption(128/256bit)
- Multiple Key Encryption
- Priority Interrupt
- Remote Monitor
- Radio Enable/Disable
- Radio Check
- IP68 Dust and Waterproof
- Vibration
- GPS SMS
- GPS Location check

Systems

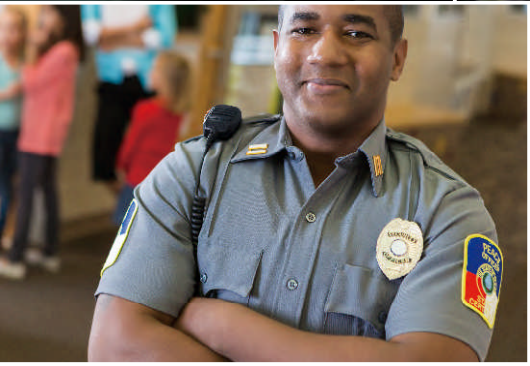
- Analog Conventional
- DMR Conventional
- IP Site Connect
- MPT-1327
- DMR Simulcast System
- XPT Trunking
- DMR Trunking

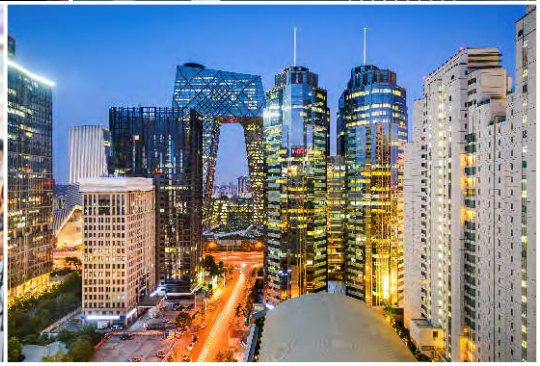
Advance Features

- Pseudo Trunk
- Telemetry
- Rent
- Phone Interconnect
- Full Duplex Call (DMR Tier 3 System)*
- Full Duplex Call (DMR Conventional System)*
- Single Frequency Repeater Mode*
- Micro SD Card*
- Smart Battery*
- RTC Clock

NOTES

* Those feature will be available later by software upgrade
● Standard feature
○ Optional feature





Specifications

General	Frequency Range		UHF:350-527MHz VHF:136-174MHz
	Channel Capacity		1024
	Zone Capacity		64 (maximum of 256 channels per zone)
	Channel Spacing		12.5kHz / 20kHz / 25kHz
	Operating Voltage		7.4V (rated)
	Battery		2000mAh (Li-ion Anti-fake or Smart Battery) 2500mAh (Li-ion Anti-fake or Smart Battery) 3000mAh (Li-ion Anti-fake or Smart Battery)
	Battery Life (5-5-90 Duty Cycle, High TX Power)		Digital: 19.5 Hours @2000mAh 24 Hours @2500mAh 27 Hours @3000mAh Analog: 14.5 Hours @2000mAh 18 Hours @2500mAh 21 Hours @3000mAh
	Frequency Stability		±0.5ppm
	Antenna Impedance		50Ω
	Dimensions (H × W × D) (with standard battery, without antenna)		131 x 54.5 x 36 mm (2000mAh) 131 x 54.5 x 41 mm (2500mAh) 131 x 54.5 x 41 mm (3000mAh)
	Weight (with antenna & standard battery)		350g (2000mAh), 361g (2500mAh), 366g (3000mAh)
	LCD Display		160 x 128 pixels, 65536 colors 1.8 inch, 6rows
Receiver	Sensitivity	Analog	0.22μV (12dB SINAD), 0.22μV (Typical) (12dB SINAD) 0.4μV (20dB SINAD)
		Digital	0.22μV /BER5%
	Selectivity TIA-603 ETSI		60dB @ 12.5kHz / 70dB @ 20/25kHz (TIA-603) 60dB @ 12.5kHz / 70dB @ 20/25kHz (ETSI)
	Spurious Response Rejection TIA-603 ETSI		70dB @ 12.5/20/25kHz (TIA-603) 70dB @ 12.5/20/25kHz (ETSI)
	Hum and 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 High Power: 4W; UHF Low Power: 1W VHF High Power: 5W; VHF 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
	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 SELPor NVOC
	Digital Protocol	ETSI-TS102 361-1,-2,-3
Environmental Specifications	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
	Dust & Water Intrusion	IP68 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	Accuracy specs are for long-term tracking(95th percentile values>5 satellites visible at a nominal -130dBm signal strength)	
	TTFF (Time To First Fix) Cold Start	<1 minute
	TTFF (Time To First Fix) Hot Start	<10 seconds
	Horizontal Accuracy	<5 meters

Optional Accessories

Remote Speaker Microphone (IP57)
SM18N2

C-Earset
EHN16

Swivel Earset
EHN17

Earbud
ESN12

3-Wire Surveillance Earpiece with Transparent Acoustic Tube (beige)
EAN17

Receive-only Earpiece
EAS03

Six-Unit Switching Powe
PS7002

Programming Cable (USB Port)
PC38

Battery Optimizing System MCA05

MCU Multi-unit Charger (for Thick Battery)
MCA08

3-wire Surveillance Earpiece with Transparent Acoustic Tube(Black)
EAN18

2-wire Earpiece with Wireless Earphone and Neck Loop(Beige)
EWN09

Receive-only Earpiece
ESS10

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

Contact your dealer for more accessories information.

Hytera
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