

ENRICHING YOUR DIGITAL EXPERIENCE

NEW MEMBER TO WORLD'S MOST COMPLETE DMR PORTFOLIO

PD98X



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.

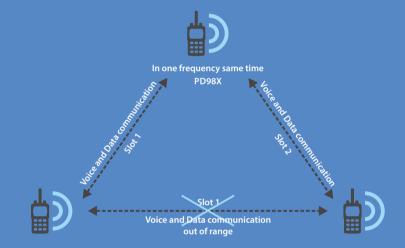
PD98X supports maximum 32G micro SD card, to record up to 576 hours digital/ analog voice.



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 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.









Micro SD Card



Single Frequency Repeater Mode



Full Duplex Call



RTC Clock



Smart Battery

PD98X Highlight Hardware Advantages



Better Sensitivity and Frequency Stability

Advanced technology improves receiving performance to enhance communication distance and reliability.



Sensitivity 26%

Compared with PD78X, PD98X adopts brand new hardware design enhance +26% Sensitivity.



Longer Battery Life

PD98X adopts new battery saving technology to guarantee longer communication time.



Battery life 33%

Compared with PD78X, PD98X adopts new battery saving technology extending +33% battery life.



IP68 Protection

IP68 Dust and Waterproof Standards ensures outstanding performance even in harsh environments.



360 Degree Steplless Channel Knob

With this kind of knob user can change channel and zone easily and comfortably.



Enhanced Voice Quality

Maximum 2.5W output speaker and new noise cancelling technology ensures clear and loud voice communication.

Noisy environment

Figure 1 Without noise cancellation



Figure 2 With noise cancellation

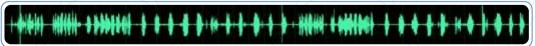


Windy environment

Figure 1 Without echo cancellation



Figure 2 With echo cancellation



Features

Base Information

- Full Keypad, Color Screen, 1024 Channels
- Analog and Digital Dual Mode
- o Bluetooth (4.0) Audio
- o Bluetooth (4.0) Data*
- Integrated GPS
- Integrated GLONASS
- Pre-programmed Text Messaging
- Freeform Text Messaging
- o 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
- o MPT-1327
- DMR Simulcast System
- XPT Trunking
- DMRTrunking

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
	Channel Capacity		1024
	Zone Capacity		64 (maximum of 128 channels per zone)
	Channel Spacing		12.5KHz / 20KHz / 25KHz
	Operating Voltage		7.4V (rated)
	Battery		2000mAh (Li-Ion)
	Battery Life (5-5-90 Duty Cycle, High TX Power) High-capacity 2000mAh Li-lon Battery		Analog:14.5h Digital: 19.5h
	Frequency Stability		± 0.5ppm
	Antenna Impedance		50
	Dimensions (H× W× D) (with standard battery, without antenna)		131 X 54.5 X 36mm
	Weight (with antenna & standard battery)		335g
	LCD Display		160× 128 pixels, 65535 colors 1.8 inch, 4 rows
Receiver	Sensitivity	Analog	0.22µV
		Digital	0.22µ V/BER5%
	Selectivity TIA-603 ETS C		60dB @ 12.5KHz / 70dB @ 20/25KHz 60dB @ 12.5KHz / 70dB @ 20/25KHz
	Spurious Response Rejection TIA-603 ETSI C		70dB @ 12.5/20/25KHz 70dB @ 12.5/20/25KHz
	Blocking TIA-603 ETSI		84dB
	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

	RF Power Output	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
Trans	Modulation Limiting	±2.5KHz @ 12.5KHz ±4.0KHz @ 20KHz; ±5.0KHz @ 25KHz
Transmitter	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
т.	Operating Temperature	-30 ~+60
viro	Storage Temperature	-40 ~ +85
Environmental Specifications	ESD	IEC 61000-4-2 (level 4) ±8kV (contact) ±15kV (air)
al Sp	American Military Standard	MIL-STD-810 C/D/E/F/G
ecifi	Dust & Water Intrusion	IP68 Standard
catic	Humidity	Per MIL-STD-810 C/D/E/F/G Standard
Suc	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	<10 meters	

Optional Accessories



Remote Speaker Microphone (IP57) SM18N2





Swivel Earset EHN17



Earbud ESN12



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



Receive-only Earpiece



Six-Unit Switching Powe PS7002



Programming Cable



Battery Optimizing System MCA05

Hytera



MCU Multi-unit Charger (for Thick Battery) MCA08



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



2-wire Earpiece with Neck Loop(Beige) EWN06



Receive-only Earpiece



Contact your dealer for more accessories information.













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