

# ENRICHING YOUR DIGITAL EXPERIENCE

NEW MEMBER TO WORLD'S MOST COMPLETE DMR PORTFOLIO





## 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.

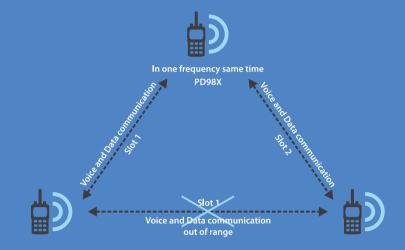
PD98X supports maximum 32G micro SD card, to record up to 576 hours digital/ analog voice.



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.









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.





#### **Longer Battery Life**

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





#### **IP68 Protection**

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



#### 360 Degree Stepless 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
- 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
- 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**

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@2500mAh
Ah), 366g (3000mAh)
1.8 inch, 6rows
Typical) (12dB SIN AD)
5kHz (TIA-603) 5kHz (ETSI)
;)
7:
-

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 SM18N2



C-Earset



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 (USB Port)



**Battery Optimizing** System MCA05



MCU Multi-unit Charger (for Thick Battery)



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



2-wire Earpiece with Neck Loop(Beige) EWN09



Receive-only Earpiece



Contact your dealer for more accessories information.











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