Features

Base Information

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

Audio

- Auto Gain Control
- Audio Feedback Suppressors
- Three Band Equalize

Safety

Man Down

Lone Worker

Basic Encryption

Priority Interrupt

Remote Monitor

Radio Check

Position SMS

Position View

Vibration

Radio Enable/Disable

IP68 Dust and Waterproof

- Emergency Alarm
- Dedicated Emergency Button
- Alert Call

Enhanced Encryption(40bit)

Multiple Key Encryption

Advanced Encryption(128/256bit)

- DMRTrunking
- MPT Trunking

Advance Features

- Telemetry
- Phone Interconnect

- Micro SD Card
- Smart Battery
- RTC

Systems

- Analog Conventional
- DMR Conventional • IP Multi-site Connect
- DMR Simulcast System
- XPT Trunking

- Pseudo Trunk
- Rent
- Full Duplex Call (DMR Tier 3 System)
- Full Duplex Call (DMR Conventional System)
- Single Frequency Repeater Mode

 Standard feature Optional feature

Specifications

	Frequency Range		UHFx: 350-527MHz UHF5: 806-941MHz VHF1: 136-174Mhz
General	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: Analog: 19.5 Hours @2000mAh 14.5 Hours @2000mAh 18 Hours @2500mAh 27 Hours @3000mAh 21 Hours @3000mAh
	Frequency Stability		±0.5ppm
	Antenna Impedance		50Ω
	Dimensions (H \times W \times 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
	Sensitivity	Analog	0.28μV (12dB SIN AD), 0.22μV (Typical) (12dB SIN AD) 0.4μV (20dB SIN AD)
		Digital	VHF: 0.22μV/BER5% UHF: 0.28μV/BER5%
Receiver	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

RF Power Output	UHFx: 1W/4W; VHF1: 1W/5W; UHF5: 1W/3W (806-870MHz) UHF5: 1W/2.5W (896-941MHz)
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+2™ SELP
Digital Protocol	ETSI-TS102 361-1,-2,-3
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 Protection	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

Accuracy specs are for long-term tracking (5 satellites visible at nominal -130dBm)		
TTFF (Time To First Fix) Cold Start	<1 minute	
TTFF (Time To First Fix) Hot Start	<10 seconds	
Horizontal Accuracy	<5m (50% probable) <10m (95% probable)	

All specifications are tested according to applicable standards, and subject to change without notice due to continuous development.

Optional Accessories











Acoustic Tube (beige) EAN17

































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Acoustic Tube(Black)





PD98X Highlights Brand New Features

01

Micro SD Card

PD98X records and stores critical voice call or data in Micro SD card.

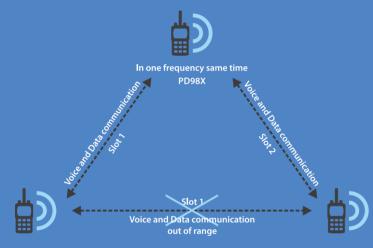
PD98X supports maximum 32G Micro SD card, and records record up to 576 hours digital/ analog voice.



U.

Single Frequency Repeater Mode

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



03

BT 4.0

PD98X has built in BT 4.0, which not only supports audio transmission, but also data transmission, such as programming via Bluetooth etc. 04

Full Duplex Call

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

RTC

RTC allows the radio to display the accurate time of received message and call. 06

Smart Battery

PD98X support smart battery, which makes it easier to monitor the battery status, such as life time, charging time, etc. This also reduces the charging time dramatically.





BT 4.0



Micro SD Card





Full Duplex Call





Smart Battery

PD98X Highlights 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 Standard 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 ensure clear and loud voice.

Noisy environment

Figure 1 Without noise cancellation



Figure 2 With noise cancellation



Windy environment

Figure 1 Without echo cancellation

Toward pages and any property of the second second

Figure 2 With echo cancellation

