### **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

- \* Those feature will be available later by software upgrade
- Standard feature
- Optional feature

### Safety

- Explosion-proof
- 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

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

#### **Advance Features**

- Pseudo Trunk

- Full Duplex Call (DMR Tier 3 System)\*
- Full Duplex Call (DMR Conventional System)\*
- Single Frequency Repeater Mode\*
- Micro SD Card\*
- Smart Battery\*
- RTC Clock

### PD98X UL913 Highlight

# Hardware Advantages



#### **Better Sensitivity and Frequency Stability**

Advanced technology improves receiving performance to enhance communication distance and reliability



### **Longer Battery Life**

PD98X UL913 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.

### Systems

- DMR Conventional
- o MPT-1327

- DMRTrunking

- Telemetry
- Rent
- Phone Interconnect

# **Specifications**

	Frequency Range		UHF:350-527MHz VHF: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		2400mAh (Li-ion Anti-fake or Smart Battery)
	Battery Life (5-5-90 Duty Cycle, High TX Power)		Digital: Analog: 21 Hours @2400mAh 16.5 Hours @2400mAh
	Frequency Stability		±0.5ppm
	Antenna Impedance		50Ω
	Dimensions (H × W × D) (with standard battery, without antenna)		131 x 54.5 x 42 mm (2400mAh)
	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 SIN AD), 0.22μV (Typical) (12dB SIN AD) 0.4μV (20dB SIN AD)
		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

	RF Power Output	UHF High Power: 4W; UHF Low Power: 1W VHF High Power: 5W; VHF Low Power: 1W	
Transmitter	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 ~ +55°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	
catio	Humidity	Per MIL-STD-810 C/D/E/F/G Standard	
SUC	Shock & Vibration	Per MIL-STD-810 C/D/E/F/G Standard	
	Accuracy specs are for long-term tracking(95th percentile values>5 satellites visible at a nominal -130dBm signal strength)		
0	TTEE (Time To First Fix) Cold Start	<1 minuto	

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**



BL2415-EX

ACN-01

Hytera \*\*



SM18N15

ES-02

Stock Code: 002583.SZ



SM18N2

ES-01

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SM26N3

EH-01







EAN17

by printing materials will occur by printing reason.











EAN18 ECN18





EH-02



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Intrinsically Safe Powerful Digital Radio UL/TIA4950 Certified explosion-proof DMR Portable Tow-way Radio

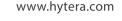












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### PD98X UL913

As the most compacted explosion-proof digital two-way radio Today, safety is the most important thing we are asking for in every aspect of life and work. Hytera understands the challenges in hazardous environments and is dedicated to designing and developing safer radios for more and more customers. Hytera believes it is rather urgent to provide an intrinsic safety radio to commercial market. Build a radio with the classic housing to provide a small and light product. Design a radio to pass UL913 certification for most dangerous areas with explosive gas and combustible dusts. Introduce a cost-effective radio with much more features for enterprises and commercial users.

# Target market

Oil & Gas, Refinery, Chemical Industry, Fire Fighting



### UL913/TIA4950 Certificate

Atmosphere
Class I: Gas, vapors;
Class II: Dust;
Class III: Fibers, flyings

Gas types by group:

A: Acetylene B: Hydrogen E: Metal dust

A: Acetylene B: Hydrogen E: Metal dust C: Ethylene and related products F: Coal dust

D: Propane and alcohol products G: Grain and non-metallic dust



### Class I II III DIV 1 Group C-G T4

Area classification: (flammable material present time)

Division 1: gas / dust normally present in explosive amounts
Division 2: gas / dust not normally present in explosive amounts

 Temperature class(maximum device surface temperature):

 T1: 450°C
 T3A: 180°C
 T4: 135°C

 T2: 300°C
 T3B: 165°C
 T5: 100°C

 T3: 200°C
 T3C: 160°C
 T6: 85°C















### PD98X UL913 Highlight

### **Brand New Features**



### Micro SD Card

Based on micro SD storage technology, PD98X UL913 helps customer to record and store critical voice call or data.

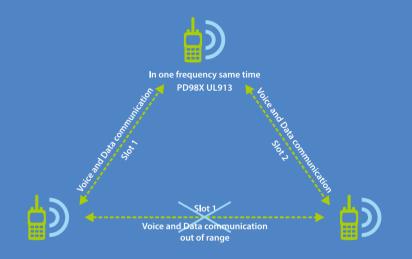
PD98X UL913 supports maximum 32G micro SD card, to record up to 576 hours digital/analog voice.



### 0

### **Single Frequency Repeater Mode**

Based on Interference cancellation technique, PD98X UL913 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 UL913 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 UL913 can make full duplex call with PD98X UL913, telephone or cell phone.

### RTC Clock

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

### Smart Battery

PD98X UL913 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.