### **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

#### Audio

- Auto Gain Control
- Acoustic Feedback Suppressor
- 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
- VibrationGPS 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)
- o Single Frequency Repeater Mode Micro SD Card
- Smart Battery
- RTC Clock

### **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		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)		366g
	LCD Display		160 x 128 pixels, 65536 colors 1.8 inch, 6rows
	Sensitivity	Analog	0.22μV (12dB SIN AD), 0.22μV (Typical) (12dB SIN AD) 0.4μV (20dB SIN AD)
		Digital	0.22μV /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

**Optional Accessories** 

SM18N15

ES-02

	Operating Temperature	-30°C ~ +55°C
Environmental Specifications	Digital Protocol	ETSI-TS102 361-1,-2,-3
Transmitter	Digital Vocoder Type	AMBE++or SELPor NVOC
	Audio Distortion	+1~-30B ≤3%
	Adjacent Channel Power  Audio Response	60dB @ 12.5kHz; 70dB @ 20/25kHz +1 ~ -3dB
	FM Hum & Noise	40dB @ 12.5kHz 43dB @ 20kHz 45dB @ 25kHz
	Modulation Limiting	±2.5kHz @ 12.5kHz ±4.0kHz @ 20kHz; ±5.0kHz @ 25kHz
	4FSK Digital Modulation	12.5kHz Data Only: 7K60FXD 12.5kHz Data & Voice: 7K60FXW
	FM Modulation	11K0F3E @ 12.5kHz 14K0F3E @ 20kHz 16K0F3E @ 25kHz
	RF Power Output	UHF High Power: 4W; UHF Low Power: 1W VHF High Power: 5W; VHF Low Power: 1W

	Accuracy specs are for long-term tracking(95th percentile values>5 satellites visible at a nominal -130dBm signal strength)		
GPS	TTFF (Time To First Fix) Cold Start	<1 minute	
	TTFF (Time To First Fix) Hot Start	<10 seconds	
	Horizontal Accuracy	<5 meters	

### PD982i UL913 Highlight

## Hardware Advantages



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

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





### **IP68 Protection**

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



### **Enhanced Voice Quality**

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



### **Longer Battery Life**

PD982i UL913 adopts new battery saving technology to guarantee longer communication time.



Battery life 33%

Compared with PD782i, PD982i UL913 adopts new battery saving technology extending +33% battery life.



### 360 Degree Stepless Channel Knob

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



BL2415-EX



SM18N2

ES-01

### MYRO Inc.

EAN17

ESN12

EH-02

SM26N3

EH-01

301 Enterprise St. Ste. 2 Escondido, CA 92029 (615)763-3430 www.myradiooutlet.com myro@edgetechinc.com

EAN18

ECN18





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









Hytera

1 K 2ABC 30EF

4 SHI 5 JKL 6 MNO

7 PORS 8 TUY 9 WXYZ

\*\_ 0 + # :



## PD982i(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
C: Ethylene and related products

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

F: Coal dust



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

**Area classification:** (flammable material present time)
NEC 500

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













RTC Clock



Smart Battery

PD982i UL913 Highlight

### **Brand New Features**

# 1

#### Micro SD Card

Based on micro SD storage technology, PD982i UL913 helps customer to record and store critical voice call or data.

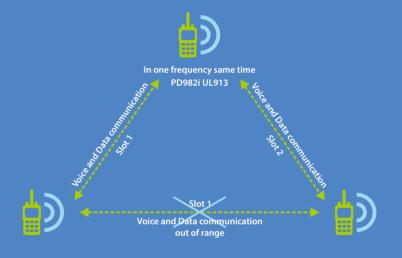
PD982i UL913 supports maximum 32G micro SD card, to record up to 576 hours digital/ analog voice.



## 0

#### **Single Frequency Repeater Mode**

Based on Interference cancellation technique, PD982i 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

PD982i 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

PD982i UL913 can make full duplex call with PD982i UL913, telephone or cell phone.

### RTC Clock

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

## VV

### Smart Battery

Compared with PD78X UL913, PD982i 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.