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

NOTES

• Standard feature • Optional feature

- Auto Gain Control
- Acoustic Feedback Suppressor
- Multi Band Equalization
- Noise Reduction Technology

Systems

Safety

Alert Call

Man Down

Enhanced

Lone Worker

Basic Encryption

Priority Interrupt

Remote Monitor

Radio Check

• Vibration

GPS SMS

Radio Enable/Disable

GPS Location check

• IP68 Dust and Waterproof

Explosion-proof

Emergency Alarm

• Dedicate Emergency Button

• Enhanced Encryption(40bit)

Encryption(128/256bit)

Multiple Key Encryption

- Analog Conventional
- DMR Conventional
- IP Site Connect
- 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

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 ($H \times W \times D$) (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





BL2415-EX

SM26N3





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PD982i UL913 Highlight Hardware Advantages

* Those feature will be available later by software upgrade



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.



360 Degree Stepless Channel Knob

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









EH-01





















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
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
Humidity	Per MIL-STD-810 C/D/E/F/G Standard
Shock & Vibration	Per MIL-STD-810 C/D/E/F/G Standard

	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	



ESN12

EH-02











EHN17

EHN16





EAN23

EAN17



PD982i UL913

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





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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.

UL913/TIA4950 Certificate







Target market

Oil & Gas, Refinery, Chemical Industry, Fire Fighting



PD982i(UL913) in this document are intrinsically safe, they are different from the conventional types

PD982i UL913 Highlight Brand New Features



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.



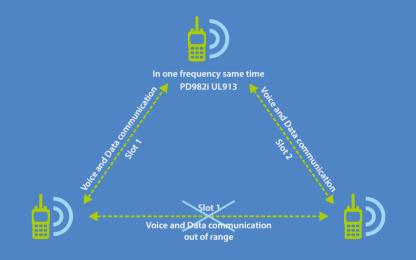


Bluetooth 4.0

PD982i UL913 has built in Bluetooth 4.0, which not only supports audio transmission, but also allows data programming via Bluetooth etc.

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.





Full Duplex Call

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



RTC Clock

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



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.