



- UL/TIA4950 Certified explosion-proof DMR Portable Tow-way Radio
- Designed for Hazardous Working Environments
- DMR TIER II &TIER III Standard Radio, Innovative Design
- Compact Size, Integrates with Hytera Applications





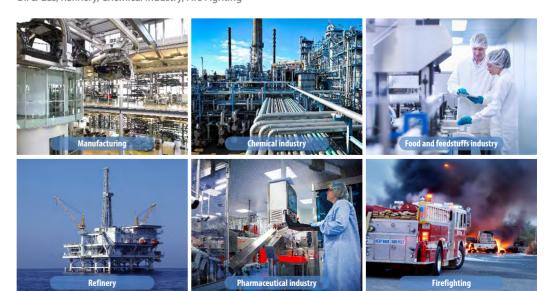


PD602i PD662i PD682i(UL913)

PD602i/PD682i(UL913) are specially designed for those who work in environments with explosive gas and combustible dusts, where using regular radios could be unsafe. Hytera understands the challenges in hazardous environments and is dedicated to designing and developing safer radios for more and more customers. Hytera launched PD602i/PD662i/PD682i(UL913), portable explosion-proof DMR radio with ergonomic and rugged design. Easy to use, long battery life and UL913/TIA4950-rated for safety.

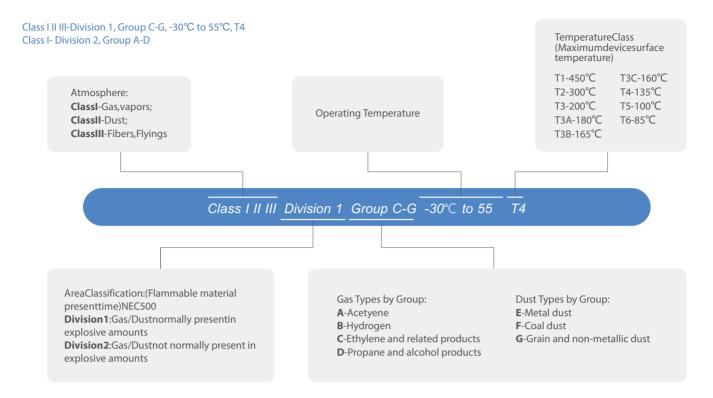
# **Applications**

Oil & Gas, Refinery, Chemical Industry, Fire Fighting



PD602i/PD662i/PD682i(UL913) in this document are intrinsically safe, they are different from the conventional types.

### UL913/TIA4950 Certificate







### **Features**

#### Small, Sleek, Light

The size is 119x54x33mm (PD602i(UL913))/133x54x33mm(PD662i/PD602i(UL913)), PC & Metal frame, weight is 324g(PD602i(UL913))/344g(PD662i/PD682i(UL913)).

#### **IP67 Compliance**

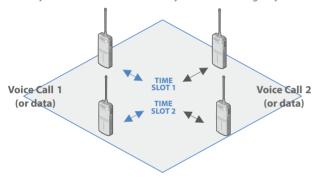
IP67 rated withstanding up to 1m submersion for 30 minutes or more.

#### **Rugged & Reliable**

Compliant with MIL-STD-810 C/D/E/F/G standards.

#### **Pseudo Trunk**

This virtual trunking feature allocates a free timeslot for urgent communications. This effectively enhances frequency efficiency and allows you to communicate in a timely manner in emergency situations.



Solt 1, Solt 2 are automatically assigned to voice call 1 or voice call 2.

#### **Secure Communication**

Provides basic/advanced digital encryption and Scrambler feature in analog mode.

#### **DMRA Data Service**

The data protocol is fully compliant to DMRA standard.

#### **GPS Positioning (Factory Option)**

The built-in GPS module supports GIS applications.

#### **Man Down (Factory Option)**

When a user falls down, the radio can automatically alert others.

#### **Further Development Port**

The reserved side port in PD6 Series allow users or any third party partner to further develop other helpful applications to extend radio functionalities.

#### **Supplementary Features**

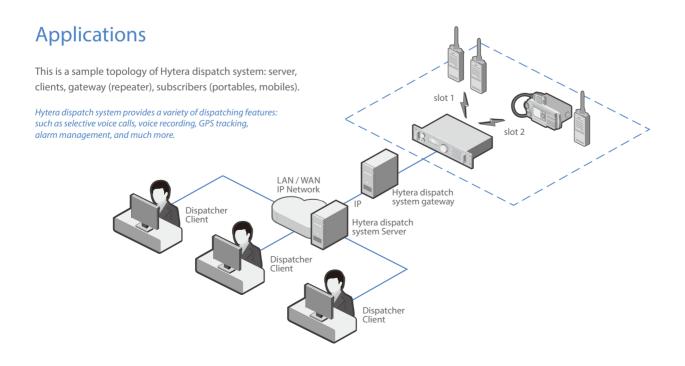
Pd6 Series provide radio enable/disable, remoter monitor and Priority Interrupt.

#### **Radio Priority-Based Interruption**

Enable an administration or manager radio to interrupt calls for emergency or urgent communication.

#### **Advanced Signaling**

Supports multiple advanced analog signaling modes, including HDC1200, 2-Tone and 5-Tone, providing better integration into existing analog radio fleets.



### Accessories



Pictures above are for reference only and may vary from actual products.

• EAN19	3-wire Surveillance Earpiece with Transparent Acoustic Tube	• EH-01	Receive-Only C Style Earloop
• EAN24	2-wire Surveillance Earpiece with Transparent Acoustic Tube	• EH-02	Receive-Only Swivel Earpiece
• EHN21	C Style Earloop Earpiece with PTT&MIC cable	• ES-01	Receive-Only Earbud
• EHN26	C-earset with in-line MIC	• EAS03	Receive-Only Earpiece with Transparent Acoustic Tube
• EHS17	Receive-only Flexible Earpiece	• ESS10	Receive-Only Earbud
• EHS18	Receive-only C-style Earpiece	• SM26N2	Remote Speaker Microphone with emergency button
• ESN14	Earbud with PTT&MIC cable		and 2.5mm audio jack(IP54)
• ACN-02	PTT&MIC cable (used with Receive-Only Earpiece)	• CH10A06	Dual Pocket MCU Charger Kit
• ES-02	Receive-Only Transparent Acoustic Tube Earpiece	• MCA05	Battery Optimizing System
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# **Specifications**

General				
Frequency Range		VHF1: 136-174MHz UHF1: 400-470MHz, 400-527MHz		
Channel Capacity		1024		
Zone Capacity		16 (PD602i(UL913), each with a maximum of 16 channels) 64 (PD662i/PD602i(UL913), each with a maximum of 256 channels)		
Channel Spacing		25/20/12.5kHz		
Operating Voltage		7.4 V		
Battery(Li-lon)		2000mAh		
Battery Life (5/5/90)		Digital: 21 Hours @2000mAh Analog: 14.5 Hours @2000mAh		
Weight		PD602i(UL913): 324g (2000mAh) PD662i/PD682i(UL913): 344g (2000mAh)		
Dimensions		PD602i(UL913): 119 x 54 x 33 mm (2000mAh) PD662i/PD682i(UL913): 122 x 54 x 33 mm (2000mAh)		
Frequency Stability		±0.5 ppm		
Antenna Impedance		50Ω		
Receiver				
Sensitivity (Analog)		0.22μV (12dB SIN AD) 0.22μV (Typical) (12dB SIN AD) 0.4μV (20dB SIN AD)		
Sensitivity (Digital)		0.22μV/BER 5%		
Adjacent Selectivity	TIA-603	60dB @ 12.5kHz/70dB @ 20 & 25kHz		
Aujacent Selectivity	ETSI	60dB @ 12.5kHz/70dB @ 20 & 25kHz		
Spurious	TIA-603	70dB @ 12.5/20/25kHz		
Response Rejection	ETSI	70dB @ 12.5/20/25kHz		
Inter Medulation	TIA-603	70dB @ 12.5/20/25kHz		
Inter-Modulation	ETSI	65dB @ 12.5/20/25kHz		
Hum & Noise		40dB @ 12.5kHz 43dB @ 20kHz 45dB @ 25kHz		
Rated Audio Power Ou	ıtput	0.5W		
Rated Audio Distortion	า	≤3%		
Audio Response		+1 ~ -3dB		
Conducted Spurious Emission		<-57dBm		

Transmitter			
RF Power Output	VHF High power 5W VHF Low power 1W UHF High power 4W UHF 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		
Conducted/Radiated Emission	-36dBm <1GHz -30dBm >1GHz		
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 SELP		
Digital Protocol	ETSI-TS102 361-1,-2,-3		
Environmental			
Operating Temperature	-30 ~ +55		
Storage Temperature	-40 ~ +85		
ESD	IEC 61000-4-2 (Level 4) ±8kV (Contact) ±15kV (Air)		
American Military Standard	MIL-STD-810 C/D/E/F/G		
Dustproof & Waterproof	IP67 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			
TTFF (Time To First Fix) Cold Start	<1 minute		
TTFF (Time To First Fix) Hot Start	<10 seconds		
Horizontal Accuracy	<10 meters		

All specifications are subject to change without notice due to continuous development.













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