



- 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





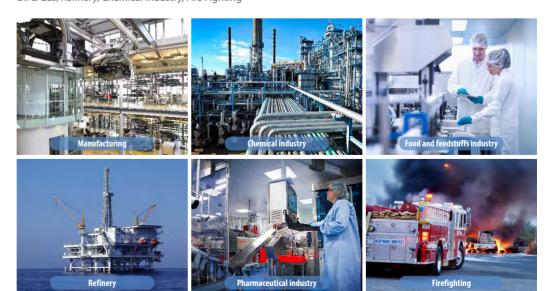


PD602i PD662i PD682i(UL913)

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.

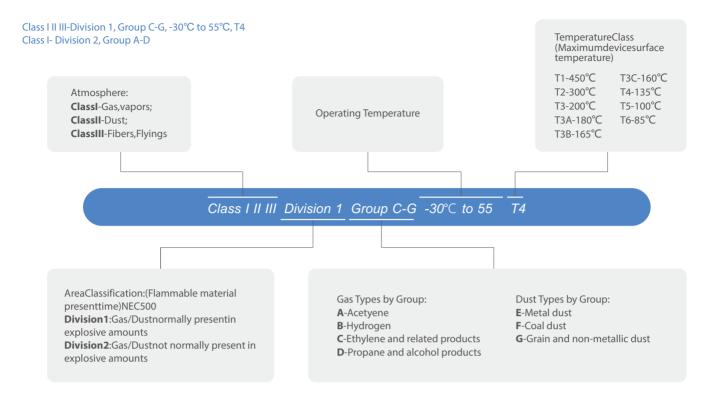
Applications

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

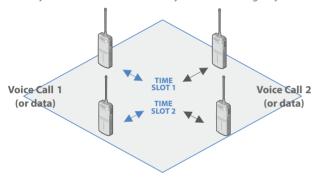
IP67 rated withstanding up to 1m submersion for 30 minutes or more.

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

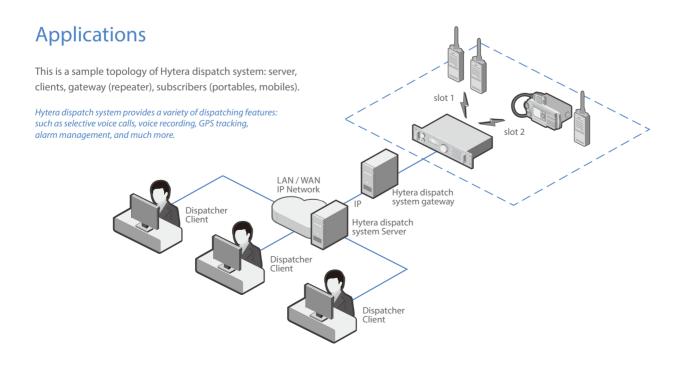
Pd6 Series provide radio enable/disable, remoter monitor and Priority Interrupt.

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 Markulatia	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	n	≤3%	
Audio Response		+1 ~ -3dB	
Conducted Spurious E	mission	<-57dBm	

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CEPRE		CHAR C012-Q
	ISO 9001	-









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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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