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# Hytera Intrinsically Safe Two-Way Radio Catalog





Hytera Intrinsically Safe Two-way Radios Introduction



HP70X UL913    HP78X UL913    HP50X UL913    HP56X UL913    PD98X UL913    PD70X UL913    PD78X UL913



PD60X UL913    PD66X UL913    PD68X UL913    PD50X UL913    PD56X UL913    PT580H Plus UL913



PNC460U    HP79XEX SERIES    PT890Ex

Introduction to Intrinsically Safe Certification

IIB Intrinsically Safe Two-way Radios

- HP70X/HP78X UL913
- HP50X/HP56X UL913
- PD98X UL913
- PD70X/PD78X UL913
- PD60X/PD66X/PD68X UL913
- PD50X/PD56X UL913
- PT580H Plus UL913
- PNC460U

IIC Intrinsically Safe Two-way Radios

- HP79XEx Series
- PT890Ex

Intrinsically Safe Accessories

Intrinsically Safe Two-way Radio Comparison Table





Example of IIB Intrinsically Safe Certificate (HP780 UI913):

CCC

Ex ib II B T4 Gb, Ex ib IIIC T130°C Db

UL913

Class I, II, III, Division 1, Groups C-G, T4, -30 °C to 60 °C  
Class I, Division 2, Groups A-D, T4, -30 °C to 60 °C

Example of IIC Intrinsically Safe Certificate (PT890Ex):

IECEX

Ex ib I Mb  
Ex ib IIC T4 Gb  
Ex ib IIIC T90°C Db  
IP66/IP67/IP68, -25°C≤Ta≤+60°C

ATEX

I M2 Ex ib I Mb  
II 2G Ex ib IIC T4 Gb  
II 2D Ex ib IIIC T90°C Db  
IP66/IP67/IP68, -25°C≤Ta≤+60°C

US

Class I, Zone 1, AEx ib IIC T4 Gb  
Zone 21, AEx ib IIIC T90°C Db  
IP66/IP67/IP68, -25°C≤Ta≤+60°C

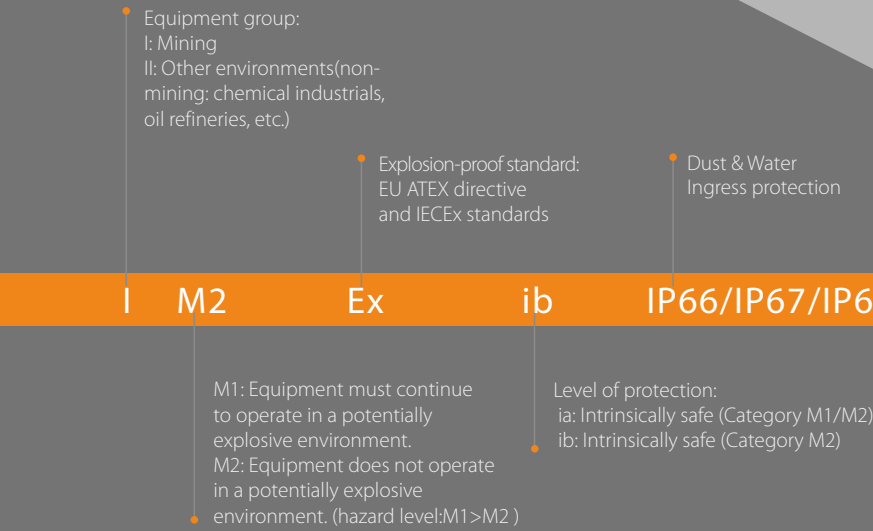
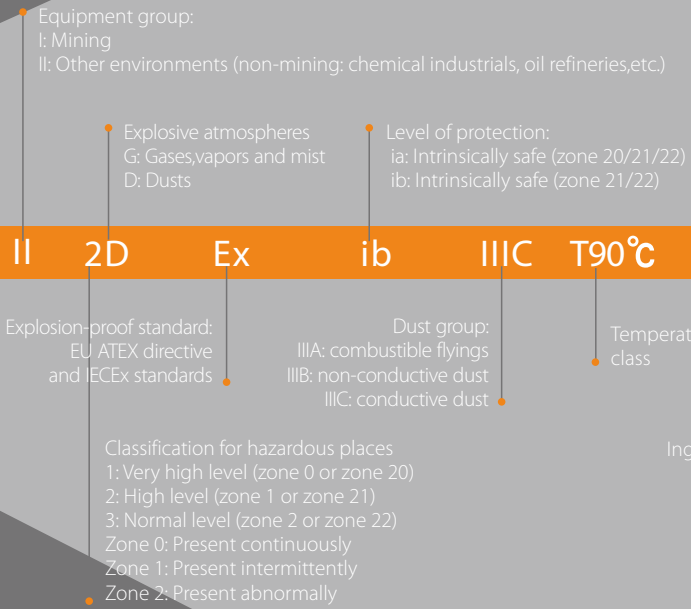
CA

Ex ib IIC T4 Gb  
Ex ib IIIC T90°C Db  
IP66/IP67/IP68, -25°C≤Ta≤+60°C



GAS

DUST



MINING





IIB Intrinsically Safe Two-way Radios

HP70X/HP78X UL913  
Intrinsically Safe DMR Portable  
Two-way Radio

In a high-risk production environment, safe and efficient instant communication is crucial to ensuring the safety of employees and improving production efficiency. HP78X/HP70X intrinsically safe DMR portable two-way radio is an intrinsically safe explosion-proof terminal specially designed by Hytera for energy and petrochemical, mining, fire emergency, airport and other industries. Provide safe, reliable and efficient communication services in harsh flammable and explosive environments.

Features

UL913, CSA and TIA4950 Certificated Intrinsically Safe Radio  
Hytera HP7 intrinsic safety radio is designed to the requirement of USA UL913, Canada CSA and TIA4950 standards. The radio works safely in hazardous environments with explosive gas and dust particles.

Smart Explosion-proof Battery  
The radios support smart Explosion- Proof battery, which makes it easier to monitor the battery status, such as lifetime, charging time, etc. The Explosion-Proof Battery Identification feature helps users avoid potential safety hazards caused by the use of non-Ex batteries.

Clear and Loud Audio  
The ability to clearly communicate in ambient noise-riddled places is a key requirement of all radio users. The radios have AI-based noise cancellation technology to filter unwanted background noise, delivering louder and clearer audio in background noise conditions, which was never possible before. Meanwhile, the radios equip an optimized powerful loudspeaker that can help users to hear clear sounds even in a noisy environment.

Light and Portable  
The radios are in a light and compact form factor, allowing operatives to move freely and comfortably.

Extended Coverage  
The HP7 UL913 series that have improved sensitivity and extended conventional coverage, allowing the setup of each call, the delivery of each message, and the report of each location in every moment that matters. The increased coverage also improves user security in a cost-effective way.

Water-porting Design  
Water-porting is designed to continually shed water from the radio's audio pathways, permitting intelligible audio to be transmitted and received even when the radio is exposed to rain or water washing from the hose. Water-porting even allows clear audio immediately after being retrieved from total submersion.



HP50X/HP56X UL913  
Intrinsically Safe DMR Portable  
Two-way Radio

When your people are working in potentially explosive environments such as chemical factory, oil refinery, firefighting and mining field, their safety is always your paramount concern. Hytera HP56X/HP50X UL913 intrinsically safe digital portable radio is the right solution for your needs.

From inside to outside, the HP56X/HP50X UL913 can confront any harsh conditions and offer reliable one-to-one or one-to-many communications, without compromising ease of use. Meanwhile, it delivers louder and clearer audio, extended coverage, and longer battery life. So the HP56X/HP50X UL913 empowers your people to work safely and efficiently even in the most demanding environments.

Features

Multiple Safety Mechanisms-prepare for the Unexpected  
The radio has a suite of proactive approaches to safety. It can intelligently detect whether the battery is explosion-proof, preventing the risk of fire and explosion posed by the use of the non-explosion-proof battery. Also, this radio provides Lone Worker and Emergency Alarm to make your people call for help quickly in case of an emergency, and the radio can send its location to the command center at the same time so that your people can be easily and accurately pinpointed thanks to the GPS and GLONASS positioning systems.

UL913 Intrinsically Safe-Peace of Mind in Hazardous Area  
In strict compliance with the UL913 and TIA4950 standards, the radio is specifically designed for use with potentially combustible dust, flammable liquids, and explosive gas in dangerous conditions. No matter how extreme the working environment is, the radio can always provide reliable and efficient communications.

Superior Audio Quality-Make Voice Hear and Heard, Clearly  
With the high-power speaker, the radio makes your people clearly hear what their teammates speak, even in the noisiest environments. The AI-based noise cancellation technology helps the radio filter out the ambient noise including breathes, extract the human voice, and eliminate the annoying howling occurred by radios that are 30 cm away from each other, ensuring your people's voices are heard clearly.

USB Type-C-Easy to Charge, Program and Upgrade (Non-Ex Area)  
The USB Type-C port facilities your people to charge the radio using a power bank, vehicle power, and more power sources on the move, greatly reducing power anxiety. Also, the port makes radio programming, upgrade, and other management easier and more efficient.







PD98X UL913

Intrinsically Safe DMR Portable Two-way Radio

Safety is the first priority for those who work in hazardous environments with explosive gas and combustible dust, where using regular radios could be unsafe. Hytera understands the challenges and is dedicated to designing and delivering safe communication solutions. Hytera believes providing an intrinsic safety radio to the commercial market is rather urgent. PD98X (UL913) is a small, light and feature-rich digital two-way portable radio. It is UL913 certified and can secure the safety in most dangerous areas

Features

Single Frequency Repeater Mode

Based on interference cancellation technology, the PD98X UL913 is able to use one slot to receive a signal and the other to transmit it in the same frequency in DMO mode to extend the communication distance.

Superior Audio Quality

Maximum 2.5 W output speaker and advanced noise cancellation technology ensure clear and loud voice communication.

Full Duplex Call

The PD98X UL913 enables frontline personnel to make full-duplex call to other PD98X, telephone, or mobile phone.

BT 4.0

With integrated BT 4.0, the PD98X UL913 supports both audio and data transmission such as programming via BT.

Smart Battery

The PD98X UL913 supports smart battery, which makes it easier to monitor the battery status, such as battery life time and charging time, reducing charging time dramatically.

High Intrinsically Safe Grade

UL913 and CSA Certificated Explosion-proof Safety.



PD70X/PD78X UL913

Intrinsically Safe DMR Portable Two-way Radio

As a product built to the DMR standard, PD70X/PD78X UL913 is specially designed for those who work in environments with explosive gas and combustible dust, where using regular radios could be unsafe. Hytera understands the challenges of professionals in hazardous environments. And is dedicated to designing and delivering of intrinsically safe and reliable communications solutions. Hytera launched PD70X/PD78X UL913, a portable explosion-proof DMR radio with an ergonomic and rugged design, long battery life and UL913-rated for safety.

Features

Superior Audio Quality

With narrowband codec and digital error-correction technologies, PD78X/PD78XG/PD70X/PD70XG UL913 delivers superior voice in noisy environments.

Reliable and Durable

MIL-STD-810 C/D/E/F/G and IP67 certified, the PD78X/PD78XG/PD70X/PD70XG UL913 is built to perform in the toughest conditions.

Dual Modes

PD78X/PD78XG/PD70X/PD70XG UL913 can operate in either analog or digital mode. It is compatible with the prevalent analog system, ensuring a smooth analog-to-digital transition.

Audio and Data Encryption

Support basic encryption, enhanced encryption, and the Scrambler feature (optional).

UL913 and CSA Certificated Explosion-proof Safety

Hytera PD78X/PD78XG/PD70X/PD70XG UL913 intrinsic safety radio is designed to the requirements of USA UL913 and Canada CSA standards. The radio works safely in most hazardous environments with explosive gas and dust particles.







**PD60X/PD66X/PD68X UL913**

**Intrinsically Safe DMR Portable  
Two-way Radio**

This radio is 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 this portable explosion-proof DMR radio with ergonomic and rugged design. Easy to use, long battery life and UL913/TIA4950-rated for safety.

**PD50X/PD56X UL913**

**Intrinsically Safe DMR Portable  
Two-way Radio**

Safety is the first priority for those who work in hazardous environments with explosive gas and combustible dust, where using regular radios could be unsafe. Hytera understands the challenges and is dedicated to designing and delivering solutions. Hytera believes providing an intrinsic safety radio to the commercial market is rather urgent. The PD5 series two-way portable radio is small, light, and feature-rich. It is UL913 certified and can secure safe in the most dangerous areas.

**Features**

**Gps Positioning**

The built-in GPS module supports GIS applications.

**Dual Modes**

The radio can work in both analog and digital modes for a smooth analog-to-digital migration.

**Man Down**

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

**IP67 Compliance**

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

**Intrinsically Safe**

The radio is UL913/TIA4950 certified, ideal for hazardous work with dangerous conditions including combustible dust, explosive chemicals, and more.

**Features**

**Rugged & Reliable**

The radio complies with MIL-STD-810 C/D/E/F/G and IP54.

**Small, Sleek, Light**

The radio is 115 X 54 X 35mm(PD50X UL913)/115 X 54 X 37mm(PD56X UL913)and 298g(PD50X UL913)/311g(PD56X UL913) and uses dual-color injection.

**Dual Modes(Analog & Digital)**

The radio can work in both analog and digital modes for a smooth analog-to-digital migration.

**Long Battery Life**

In digital mode, the radio operates for up to 20 hours under a duty cycle of 5-5-90.







PT580H Plus UL913

Intrinsically Safe TETRA  
Portable Radio

PT580H Plus UL913 Intrinsically Safe TETRA Portable Radio, compliant with IS standards of UL 913 and CSA, safely delivers clear voice calls amid noises at industrial sites where there is combustibile and explosive dust or gases. As a heavy-duty radio, it is fully ruggedized to withstand shock, humidity, water or dust ingress, and other challenges. Features such as lone worker, man-down, and SOS alert make the radio an essential workplace safety equipment as well.

Features

Performance Through Innovation

The antenna in the middle position provides an Omnidirectional antenna pattern for better coverage performance. The two knobs of the portable radio are separated by the antenna, which reduces accidental activation when changing the volume channel.

Instant Communication

PT580H Plus UL913 TETRA Intrinsically Safe Portable Terminal enables quick access to TETRA networks and roaming services. Additionally, PT580H Plus UL913 provides powerful interoperability with base stations and radios of different manufacturers.

Reliable Through Design

IP68 Dust&Water Protection and Hytera ALT Test simulating over years of usage. These tests ensure PT580H Plus UL913 TETRA intrinsically safe digital portable radio will stand up to the toughest conditions and environment.

User Friendly Interface

The large TFT color display enables you to access pertinent information with ease, even under bright sunlight. As many as 20 programmable keys are configurable for quick access through one button operations.

Intrinsically Safe

Designed upon UL913 and CSA, it can work safely in most hazardous environments such as petroleum, chemical, natural gas industry. It can provide you with more secure and reliable communication support.

Longer Cycle Life

The 2400mAh Ex Li-Ion battery enables your radio to continuously work longer and the battery lifespan is longer as the charge/discharge cycles are reduced.



PNC460U

Intrinsically Safe Smart Device

The PNC460U is a UL913-certified intrinsically safe smart device with the capabilities of large-screen smartphone and push-to-talk over cellular (PoC) radio rolled into one. It provides purpose-built apps, instant PoC calls, video-based dispatch, and more to get things done in less time and with less hassle. Work safer. Work more efficient.

Features

Enhance workplace safety

The PNC460U is designed for hazardous locations with potentially explosive gas and combustibile dust, in compliance with the explosion-proof requirements for use in Class I, II, III; Division 1; Groups C-G; T4 and -20°C to +60°C. So the PNC460U can always provide reliable communications and efficient services for you, even in the extreme working environments.

Android 12 OS

With the Android 12 OS, the PNC460U delivers the familiar experience and ease of use that the professionals want. More importantly, it provides an open and inclusive platform to run a wide variety of key apps, making everyday tasks easier and faster.

Precise Positioning

Thanks to the built-in dual-frequency GPS (L1+L5) chip, the PNC460U provides real-time, precise location for the dispatcher with the accuracy improved to 2 meters. Know where your devices are. Keep your personnel safe.

Professional Acoustic System

With the powerful speaker and sophisticated noise cancellation technologies, the PNC460U delivers crystal-clear audio in any noisy environment such as oil exploration sites, petrochemical plants, and refineries. This best-in-class audio promises a high-quality communication experience in any work environments.

External Antenna

Unlike the radios with the built-in antenna, the PNC460U comes with the external antenna that has a 70% higher RX capability. So even in the area with weak signal strength such as mountain and underground garage, the PNC460U still conveys accurate information without missing any words.

Powerful Camera System

The PNC460U has unmatched photography capabilities, thanks to a 50 MP rear camera HDR technology, and image stabilization algorithm. It can capture clear pictures and stable live videos in the field, and feed them to the command center in real time over the LTE or WLAN network. This is invaluable for dispatcher to know what happened, significantly improving collaboration and outcomes.







IIC Intrinsically Safe Two-way Radios

HP79XEx Series

Intrinsically Safe DMR Portable Two-way Radio

HP79XEx series Intrinsically Safe DMR Portable Two-way Radio features a secure design, durable body, and advanced ergonomics. HP79XEx series provides clear and loud voice quality, extended working hours, and long-distance communication capabilities. Compliant with stringent IECEx explosion-proof standards, it holds IECEx international certifications. This design meets global explosion-proof certification standards, providing reliable safe communication for industries such as oil and gas, fire rescue, airports, manufacturing, and more.

Features

Authoritative IS Certifications

Through the rigorous testing of the globally recognized certification organizations, HP79XEx series obtains the IECEx/ATEX certificates, to reduce the risk of accidents, and ensure the safety of users and operators.

Clear and Loud Voice

With a 2W high-power speaker, the audio is louder. Integrated with AI intelligent noise reduction algorithm, automatic gain control (AGC), and other multiple audio technologies, HP79XEx series isolates kinds of noisy backgrounds, and addresses weak sound issues, to make critical voice information clearer and more reliable.

Extended Coverage

2W TX power extends the coverage area. Critical information can be received even in remote areas, reducing coverage blind spots, enabling rapid response, and collaborating in the timely handling of critical missions.

Rocksolid & Longlasting Battery

Designed with a high-grade battery protection board and battery lock, HP79XEx series avoid potential sparks even dropped accidentally, and ensures the safe use of the battery in hazardous circumstances. Additionally, HP79XEx series prompt on screen with flashing red LED indicator, effectively addressing the security risks of non-original batteries. It also adopts a large-capacity intelligent IS battery and power-saving technology design to reduce standby power consumption, meeting the need for extended communication, and allowing seamless shift changes.

Wider range of operation temperature (in Ex area)

Thanks to new explosion-proof materials and advanced mechanical design, the HP79XEx series is built to work under temperatures from -25°C to 60°C in explosion-prone areas. With stable and even heat dissipation, the HP79XEx is engineered to work in extreme conditions, bringing extra safety and efficiency to everyday work.



PT890Ex

Intrinsically Safe TETRA Portable Radio

PT890Ex Intrinsically Safe TETRA Portable Radio features a secure design, durable body, and advanced ergonomics. PT890Ex provides clear and loud voice quality, extended working hours, and long-distance communication capabilities. Compliant with stringent IECEx explosion-proof standards, it holds IECEx international certifications. This design meets global explosion-proof certification standards, providing reliable safe communication for industries such as oil and gas, fire rescue, airports, manufacturing, and more.

Features

Authoritative IS Certifications

Through the rigorous testing of the globally recognized certification organizations, PT890Ex obtains the IECEx/ATEX certificates, to reduce the risk of accidents, and ensure the safety of users and operators.

Clear and Loud Voice

With a 2W high-power speaker, the audio is louder. Integrated with AI intelligent noise reduction algorithm, automatic gain control (AGC), and other multiple audio technologies, PT890Ex isolates kinds of noisy backgrounds, and addresses weak sound issues, to make critical voice information clearer and more reliable.

Extended Coverage

Class 3L transmission power extends the coverage area. Even in remote areas, critical information can be received, reducing coverage blind spots, enabling rapid response, and collaborating timely handling of critical tasks.

Rocksolid & Longlasting Battery

Designed with a high-grade battery protection board and a novel battery lock, PT890Ex avoid potential sparks even dropped accidentally, and ensures the safe use of the battery in hazardous circumstances. Additionally, PT890Ex prompt on screen with flashing red LED indicator, effectively addressing the security risks of non-original batteries. It also adopts a large-capacity intelligent IS battery and power-saving technology design to reduce standby power consumption, meeting the need for extended communication, and allowing seamless shift changes.

Wider range of operation temperature (in Ex area)

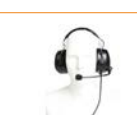
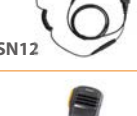
Thanks to new explosion-proof materials and advanced mechanical design, the PT890Ex is built to work under temperatures from -25°C to 60°C in explosion-prone areas. With stable and even heat dissipation, the PT890Ex is engineered to work in extreme conditions, bringing extra safety and efficiency to everyday work.

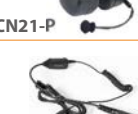
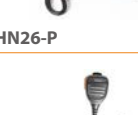




Intrinsically Safe Accessories

| Accessories Model                                                                                  | Accessories Description                              | Compatibility Portable Radios                                                                                  |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <br>ACM-01        | PTT&MIC cable                                        | PD50X/56X UI913<br>PD70X/78X UI913<br>PD98X UI913<br>PT580H Plus UL913                                         |
| <br>ACN-02        | PTT&MIC cable                                        | PD60X/PD68X UL913                                                                                              |
| <br>ACN-02P       | PTT&MIC cable                                        | HP700/780 UL913                                                                                                |
| <br>EA-01         | Receive-only Earpiece with Transparent Acoustic Tube | PD50X/56X UL913<br>PD60X/PD68X UL913<br>PD70X/78X UL913<br>PD98X UL913<br>HP700/780 UL913<br>PT580H Plus UL913 |
| <br>EAS03        | Receive-only Earpiece with Transparent Acoustic Tube | PD50X/56X UI913<br>PD60X/PD68X UL913                                                                           |
| <br>EH-01       | Receive-Only C-Style Earloop                         | PD50X/56X UI913<br>PD60X/PD68X UI913<br>PD70X/78X UI913<br>PD98X UI913<br>HP700/780 UI913<br>PT580H Plus UL913 |
| <br>EH-02       | Receive-Only Adjustable Earhook with Swivel Speaker  | PD50X/56X UI913<br>PD70X/78X UI913<br>PD98X UI913<br>PT580H Plus UL913                                         |
| <br>ES-01       | Receive-Only Earbud                                  | PD50X/56X UI913<br>PD60X/PD68X UI913<br>PD70X/78X UI913<br>PD98X UI913<br>HP700/780 UI913<br>PT580H Plus UL913 |
| <br>ES-02       | Receive-Only Earpiece with Transparent Acoustic Tube | PD50X/56X UI913<br>PD60X/PD68X UI913<br>PD70X/78X UI913<br>PD98X UI913<br>HP700/780 UL913                      |
| <br>SM26N13P-Ex | 手持防爆麦克风                                              | HP79XEx<br>PT890Ex                                                                                             |

| Accessories Model                                                                             | Accessories Description                                            | Compatibility Portable Radios                                            |
|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------------|
| <br>EAN17    | 3-wire Surveillance Earpiece with Transparent Acoustic Tube(Beige) | PT580H Plus UL913<br>PD70X/78X UL913<br>PD98X UL913                      |
| <br>EAN18    | 3-wire Surveillance Earpiece with Transparent Acoustic Tube(Black) | PT580H Plus UL913<br>PD70X/78X UL913<br>PD98X UL913                      |
| <br>EAN21    | 3-wire Surveillance Earpiece with Transparent Acoustic Tube(Beige) | PD60X/PD68X UL913                                                        |
| <br>EAN23    | 2-wire Surveillance Earpiece with Transparent Acoustic Tube        | PT580H Plus UL913<br>PD70X/78X UL913<br>PD98X UL913                      |
| <br>ECN18    | Heavy duty Noise-cancelling Headset                                | PT580H Plus UL913<br>PD70X/78X UL913                                     |
| <br>EHN16    | C-Earset                                                           | PT580H Plus UL913<br>PD70X/78X UL913<br>PD98X UL913                      |
| <br>EHN17   | Swivel Earset                                                      | PT580H Plus UL913<br>PD70X/78X UL913<br>PD98X UL913                      |
| <br>EHN20  | Detachable Swivel Earset                                           | PD60X/PD68X UL913                                                        |
| <br>ESN12  | ESN12 Earbud                                                       | PT580H PLUS UL913<br>PD70X/78X UL913<br>PD98X UL913                      |
| <br>SM18N2 | Waterproof Remote Speaker Microphone(IP67)                         | PD70X/78X UL913<br>PD98X UL913                                           |
| <br>SM18N5 | Waterproof Remote Speaker Microphone(IP67)                         | PT580H Plus UL913                                                        |
| <br>CHV09  | Vehicle Power Adapter                                              | PD50X/56X UL913<br>PD60X/PD68X UL913<br>PD98X UL913<br>PT580H Plus UL913 |

| Accessories Model                                                                                 | Accessories Description                                            | Compatibility Portable Radios                                                               |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <br>SM26N3     | Waterproof Remote Speaker Microphone(IP67)                         | PT580H Plus UL913<br>PD70X/78X UL913<br>PD98X UL913                                         |
| <br>EAN21-P    | 3-wire Surveillance Earpiece with Transparent Acoustic Tube(Beige) | HP70X/78X UL913                                                                             |
| <br>ECN21-P    | Heavy duty Noise-cancelling Headset                                | HP70X/78X UL913                                                                             |
| <br>EHN26-P    | C-Earset                                                           | HP70X/78X UL913                                                                             |
| <br>SM26N1     | Waterproof Remote Speaker Microphone (IP67)                        | PD60X/PD68X UL913                                                                           |
| <br>SM26N2     | Waterproof Remote Speaker Microphone(IP54)                         | PD60X/PD68X UL913                                                                           |
| <br>SM26N1-P  | Waterproof Remote Speaker Microphone (IP67)                        | HP70X/78X UL913                                                                             |
| <br>SM26N2-P | Waterproof Remote Speaker Microphone(IP54)                         | HP70X/78X UL913                                                                             |
| <br>MCL32    | Multi-unit Charger for Li-ion Battery( 2A)                         | PD70X/78X UL913<br>HP70X/78X UL913                                                          |
| <br>MCA08    | Multi-Unit Charger                                                 | PD50X/56X UL913<br>PD60X/PD68X UL913<br>PD70X/78X UL913<br>PD98X UL913<br>PT580H Plus UL913 |
| <br>POA59    | Charging Pocket                                                    | PD50X/56X UL913<br>PD60X/PD68X UL913<br>PD70X/78X UL913<br>PD98X UL913<br>PT580H Plus UL913 |



HP50X UL913



IIB Intrinsically Safe Two-way Radio Comparison Table

|                                               | PD50X UL913                                                                         | PD56X UL913 | PD60X UL913 |                                                                | PD66X UL913                                                                                              | PD68X UL913                                                    | PD70X UL913                                                                                                    | PD78X UL913                                                                               | PD98X UL913                                                                            | HP50X UL913                                                                                                             | HP56X UL913                                 | HP70X UL913                                                                                                             | HP78X UL913                | PT580H PLUS UL913                                                                                                     | PNC460U                                                                                                                                                            |            |
|-----------------------------------------------|-------------------------------------------------------------------------------------|-------------|-------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Frequency Range                               | UHF1:400~470MHz<br>UHF3:350-400MHz<br>VHF:136-174MHz                                |             |             |                                                                | UHF1: 400~470MHz<br>VHF: 136~174MHz                                                                      |                                                                | UHF1:400-470 MHz;<br>UHF2:450-520 MHz;<br>UHF3:350-400 MHz;<br>UHF5:806-825 MHz(TX only)<br>851-870 MHz(TX&RX) | 896-902 MHz(TX only)<br>935-941 MHz(TX&RX);(仅海外)<br>VHF1:136-174 MHz;<br>VHF3:210-270 MHz | UHFx: 350-527 MHz<br>VHF: 136-174 MHz                                                  | UHF:400-470MHz<br>VHF:136-174MHz                                                                                        |                                             | UHF1 : 400~470MHz;<br>UHF3 : 350~400MHz;<br>VHF : 136~174MHz                                                            |                            | 380-430 MHz;<br>405-475 MHz;<br>806-870 MHz                                                                           | GSM: 850/900/1800/1900<br>WCDMA: B1/B2/B3/B4/B5/B8<br>TDD-LTE: B34/B38/B39/<br>B40/B41(2496~2690 MHz)<br>FDD-LTE: B1/B2/B3/B4/B5/B7/<br>B8/B12/B13/B17/B20/B26/B28 |            |
| Battery                                       | 2000mAh (Li-ion)                                                                    |             |             |                                                                | 2000mAh (Li-ion)                                                                                         |                                                                | 2400 mAh (Li-ion)                                                                                              |                                                                                           | 2400mAh                                                                                | 2400mAh                                                                                                                 |                                             | 2850mAh                                                                                                                 |                            | 2400 mAh Li-Ion battery                                                                                               | 4,580 mAh                                                                                                                                                          |            |
| Battery Life(5/5/90 Duty Cycle,High TX Power) | 20hours                                                                             |             |             |                                                                | 22hours/18hours(G)                                                                                       |                                                                | 23 hours/21 hours(GPS)                                                                                         |                                                                                           | 22 hours/17 hours(GPS)                                                                 | 24 hours/22 hours(GPS)                                                                                                  |                                             | 29h/25(GPS)                                                                                                             |                            | >24 hours                                                                                                             | 53 hours                                                                                                                                                           |            |
| Frequency Stability                           | ±0.5ppm                                                                             |             |             |                                                                | ±0.5ppm                                                                                                  |                                                                | ±0.5ppm                                                                                                        |                                                                                           | ±0.5ppm                                                                                | ±0.5ppm                                                                                                                 |                                             | ±0.5ppm                                                                                                                 |                            |                                                                                                                       | /                                                                                                                                                                  |            |
| Dimensions (H x W x D)                        | PD50X UL913: 115mm x 54mm x 35mm<br>PD56X UL913: 115mm x 54mm x 37mm                |             |             |                                                                | PD60X UL913: 119mm x 54mm x 33mm<br>PD66X UL913: 122mm x 54mm x 33mm<br>PD68X UL913: 123mm x 55mm x 34mm |                                                                | PD70X UL913: 125 mm x 55 mm x 41 mm<br>PD78X UL913: 125 mm x 55 mm x 43 mm                                     |                                                                                           | 131 mm x 54.5 mm x 42 mm                                                               | 119 mm x 55 mm x 33.5 mm                                                                                                |                                             | 132mm x 55mm x 36.5mm                                                                                                   |                            | 127.5 mm x 55 mm x 43 mm                                                                                              | 164 mm × 77 mm × 23 mm                                                                                                                                             |            |
| Weight(with antenna&battery)                  | 298g                                                                                | 311g        | 324g        | 344g                                                           |                                                                                                          | 344g                                                           | 355g                                                                                                           | 369g                                                                                      | 366g                                                                                   | 316g                                                                                                                    | 321g                                        |                                                                                                                         | 369g                       | 389g                                                                                                                  | 408 g (with 2400 mAh standard battery and antenna)                                                                                                                 | About 337g |
| Display                                       | /                                                                                   | Support     | /           | LCD Display:160 x128 pixels,<br>65536 colors, 1.8 inch, 6 rows |                                                                                                          | LCD Display:160 x128 pixels,<br>65536 colors, 1.8 inch, 6 rows | /                                                                                                              | 160 x 128 pixels, 65535 colors,<br>1.8 inch, 6 rows                                       | LCD Display:160 x128 pixels,<br>65536 colors, 1.8 inch, 6 rows                         | /                                                                                                                       | 1.45 inch LCD,<br>240 x320 pixels, colorful |                                                                                                                         | OLED Display:<br>0.91 inch | LCD Display: 240x320 pixel,<br>262000 colours,<br>2.4-inch, 10 line                                                   | 1.8 inch,160x128 pixels,<br>262144colors                                                                                                                           | 5.0 inches |
| Anti-explosion levels                         | Class I II III Division 1 Group C-G<br>-30°C to 55°C T4                             |             |             |                                                                | Class I II III Division 1 Group C-G -30°C to 55°C T4                                                     |                                                                | Class I II III Division 1 Group C-G -30°C to 55°C T4                                                           |                                                                                           | Class I II III DIV 1 Group C-G T4                                                      | Class I, II, III, Division 1, Groups C-G,<br>T4, -30°C to 60°C<br>Class I, Division 2, Groups A-D,<br>T4, -30°C to 60°C |                                             | Class I, II, III, Division 1, Groups C-G,<br>T4, -30°C to 60°C<br>Class I, Division 2, Groups A-D,<br>T4, -30°C to 60°C |                            | Class I, II, III, Division 1, Groups C-G,<br>T4, -30°C to 55°C<br>Class I, Division 2. Groups A-D<br>T4 -30°C to 55°C | Class I, II, III; Division 1;<br>Groups A–G; T4<br>and -20°C to +60°C                                                                                              |            |
| BT                                            | /                                                                                   |             |             |                                                                | /                                                                                                        |                                                                | /                                                                                                              |                                                                                           | Support                                                                                | Optional                                                                                                                |                                             | Optional                                                                                                                |                            | Optional                                                                                                              | BT 5.0                                                                                                                                                             |            |
| Positioning                                   | /                                                                                   |             |             |                                                                | Optional                                                                                                 |                                                                | Optional                                                                                                       |                                                                                           | Support                                                                                | Optional                                                                                                                |                                             | Optional                                                                                                                |                            | Optional                                                                                                              | Support                                                                                                                                                            |            |
| NFC                                           | /                                                                                   |             |             |                                                                | /                                                                                                        |                                                                | /                                                                                                              |                                                                                           | /                                                                                      | /                                                                                                                       |                                             | /                                                                                                                       |                            | /                                                                                                                     | Available                                                                                                                                                          |            |
| WLAN                                          | /                                                                                   |             |             |                                                                | /                                                                                                        |                                                                | /                                                                                                              |                                                                                           | /                                                                                      | /                                                                                                                       |                                             | /                                                                                                                       |                            | /                                                                                                                     | 2.4 GHz&5 GHz,<br>802.11 a/b/g/n/ac                                                                                                                                |            |
| Camera                                        | /                                                                                   |             |             |                                                                | /                                                                                                        |                                                                | /                                                                                                              |                                                                                           | /                                                                                      | /                                                                                                                       |                                             | /                                                                                                                       |                            | /                                                                                                                     | Rear: 50 MP; Front: 8 MP                                                                                                                                           |            |
| RF Power Output                               | UHF High power: 4W<br>UHF Low power: 1W<br>VHF High power: 5W<br>VHF High power: 1W |             |             |                                                                | UHF High power: 4W<br>UHF Low power: 1W<br>VHF High power: 5W<br>VHF High power: 1W                      |                                                                | UHF1/UHF2/UHF3:4 W/1 W;<br>VHF:5 W/1 W;<br>UHF5:3 W/1 W (806-870 MHz) 2.5 W/1 W (896-941 MHz)                  |                                                                                           | UHF: 4 W/1 W<br>VHF: 5 W/1 W                                                           | UHF: 4W/1W<br>VHF: 5W/1W                                                                                                |                                             | UHF: 4W/1W<br>VHF: 5W/1W                                                                                                |                            | 1W                                                                                                                    | /                                                                                                                                                                  |            |
| Sensitivity(Digital)                          | 0.22μV/BER 5%                                                                       |             |             |                                                                | 0.22μV/BER 5%                                                                                            |                                                                | 0.3 μV/BER 5%                                                                                                  |                                                                                           | UHF: 0.28 μV/BER5%<br>VHF: 0.22 μV/BER5%                                               | Digital<br>0.18μV/BER5%                                                                                                 |                                             | 0.18μV/BER5%                                                                                                            |                            | ≤ -116 dBm(typical-118 dBm)<br>806-870 MHz: ≤-115 dBm<br>(typical-116 dBm)                                            | /                                                                                                                                                                  |            |
| Sensitivity(Analog)                           | 0.22μV(Typical)(12dB SIN AD);<br>0.3μV (12dB SIN AD);                               |             |             |                                                                | 0.3μV(12dB SINAD)<br>0.22μV(Typical)(12dB SINAD)                                                         |                                                                | 0.22 μV(Typical)(12 dB SIN AD)<br>0.3 μV(12 dB SIN AD)<br>0.4 μV(20 dB SIN AD)                                 |                                                                                           | 0.22 μV(typical)(12 dB SINAD)<br>0.28 μV (12 dB SIN AD)<br>0.4 μV(20 dB SINAD)         | Analog<br>0.18μV (12dB SINAD);<br>0.16μV (Typical) (12dB SINAD)                                                         |                                             | 0.18μV (12dB SINAD);<br>0.16μV (Typical) (12dB SINAD)                                                                   |                            |                                                                                                                       | /                                                                                                                                                                  |            |
| Dust and Water Intrusion                      | IP54                                                                                |             |             |                                                                | IP67                                                                                                     |                                                                | IP67                                                                                                           |                                                                                           | IP68                                                                                   | IP67                                                                                                                    |                                             | IP68(2m4h)                                                                                                              |                            | IP65/66/67/68                                                                                                         | IP68                                                                                                                                                               |            |
| Standard Compliance                           | Analog Conventional Mode<br>Digital Conventional Mode                               |             |             |                                                                | Analog Conventional Mode<br>Digital Conventional Mode                                                    |                                                                | Analog Conventional Mode、<br>Digital Conventional Mode<br>MPT<br>DMR Tier III Trunking                         |                                                                                           | Analog Conventional Mode、<br>Digital Conventional Mode<br>MPT<br>DMR Tier III Trunking | Analog Conventional Mode<br>Digital Conventional Mode                                                                   |                                             | Analog Conventional Mode<br>Digital Conventional Mode<br>DMR Tier III Trunking                                          |                            |                                                                                                                       | 4G/3G/2G                                                                                                                                                           |            |
| E2E Basic Encryption                          | Support                                                                             |             |             |                                                                | Support                                                                                                  |                                                                | Support                                                                                                        |                                                                                           | Support                                                                                | Support                                                                                                                 |                                             | Support                                                                                                                 |                            | End-to-end encryption                                                                                                 | End-to-End encryption                                                                                                                                              |            |
| E2E Advanced Encryption                       | /                                                                                   |             |             |                                                                | Optional                                                                                                 |                                                                | Optional                                                                                                       |                                                                                           | Optional                                                                               | /                                                                                                                       |                                             | Optional                                                                                                                |                            | Over-the-air Encryption                                                                                               | /                                                                                                                                                                  |            |
| Hard Encryption                               | /                                                                                   |             |             |                                                                | /                                                                                                        |                                                                | Support                                                                                                        |                                                                                           | Support                                                                                | /                                                                                                                       |                                             | Support                                                                                                                 |                            |                                                                                                                       | /                                                                                                                                                                  |            |
| Man-down                                      | /                                                                                   |             |             |                                                                | Support                                                                                                  |                                                                | Support                                                                                                        |                                                                                           | Support                                                                                | /                                                                                                                       |                                             | Support                                                                                                                 |                            | Support                                                                                                               | /                                                                                                                                                                  |            |
| Lone Worker                                   | Support                                                                             |             |             |                                                                | Support                                                                                                  |                                                                | Support                                                                                                        |                                                                                           | Support                                                                                | Support                                                                                                                 |                                             | Support                                                                                                                 |                            | Support                                                                                                               | /                                                                                                                                                                  |            |
| Voice Recording                               | /                                                                                   |             |             |                                                                | /                                                                                                        |                                                                | /                                                                                                              |                                                                                           | Optional                                                                               | /                                                                                                                       |                                             | Optional                                                                                                                |                            |                                                                                                                       | Support                                                                                                                                                            |            |
| Dedicated Emergency Button                    | /                                                                                   |             |             |                                                                | /                                                                                                        |                                                                | Support                                                                                                        |                                                                                           | Support                                                                                | /                                                                                                                       |                                             | Support                                                                                                                 |                            | Support                                                                                                               | Support                                                                                                                                                            |            |
| Priority Interrupt                            | Optional                                                                            |             |             |                                                                | Optional                                                                                                 |                                                                | Support                                                                                                        |                                                                                           | Support                                                                                | Optional                                                                                                                |                                             | Support                                                                                                                 |                            | Support                                                                                                               | Support                                                                                                                                                            |            |
| Roaming / Site Search                         | Optional                                                                            |             |             |                                                                | Optional                                                                                                 |                                                                | Optional                                                                                                       |                                                                                           | Support                                                                                | Optional                                                                                                                |                                             | Optional                                                                                                                |                            | Support                                                                                                               | Support                                                                                                                                                            |            |



IIC Intrinsically Safe Two-way  
Radio Comparison Table

|                                               | HP79XEX IIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PT890EX                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency Range                               | UHF: 400-480MHz<br>VHF: 136-174MHz                                                                                                                                                                                                                                                                                                                                                                                                                                           | 380-475 MHz<br>806-870 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Battery                                       | 2150mAh                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2150mAh                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Battery Life(5/5/90 Duty Cycle,High TX Power) | 24h (GNSS OFF); 21h (GNSS ON)                                                                                                                                                                                                                                                                                                                                                                                                                                                | TMO: 26H    DMO: 20H                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Frequency Stability                           | ±0.5ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | /                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Dimensions (H x W x D)                        | 130mm x 55mm x 37mm                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 130mm x 55mm x 37mm                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Weight(with antenna&battery)                  | about 390g                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | about 390g                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Display                                       | LCD,320x240 pixel,<br>262000 colors, 2.4inch                                                                                                                                                                                                                                                                                                                                                                                                                                 | LCD,320x240 pixel,<br>262000 colors, 2.4inch                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Anti-explosion levels                         | IECEx:<br>Ex ib I Mb<br>Ex ib IIC T4 Gb<br>Ex ib IIIC T120°C Db<br>Tamb = -25°C to +60°C<br>IP66; IP67; IP68<br><br>ATEX:<br>I M2 Ex ib I Mb<br>II 2G Ex ib IIC T4 Gb<br>II 2D Ex ib IIIC T120°C Db<br>Tamb = -25°C to +60°C<br>IP66; IP67; IP68<br><br>USA:<br>CL I, ZN 1, AEx ib IIC T4 Gb<br>ZN 21, AEx ib IIIC T120°C Db<br>Tamb = -25°C to +60°C<br>IP66; IP67; IP68<br><br>CA:<br>Ex ib IIC T4 Gb<br>Ex ib IIIC T120°C Db<br>Tamb = -25°C to +60°C<br>IP66; IP67; IP68 | IECEx:<br>Ex ib I Mb<br>Ex ib IIC T4 Gb<br>Ex ib IIIC T90°C Db<br>Tamb = -25°C to +60°C<br>IP66; IP67; IP68<br><br>ATEX:<br>I M2 Ex ib I Mb<br>II 2G Ex ib IIC T4 Gb<br>II 2D Ex ib IIIC T90°C Db<br>Tamb = -25°C to +60°C<br>IP66; IP67; IP68<br><br>USA:<br>CL I, ZN 1, AEx ib IIC T4 Gb<br>ZN 21, AEx ib IIIC T90°C Db<br>Tamb = -25°C to +60°C<br>IP66; IP67; IP68<br><br>CA:<br>Ex ib IIC T4 Gb<br>Ex ib IIIC T90°C Db<br>Tamb = -25°C to +60°C<br>IP66; IP67; IP68 |
| BT                                            | BT 5.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | BT 5.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Positioning                                   | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| NFC                                           | Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| WLAN                                          | 2.4 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2.4 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Camera                                        | /                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | /                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| RF Power Output                               | 2W/1W                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.5 W (rated)<br>2 W (max.)                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Sensitivity(Digital)                          | 0.16uV/BER5%                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Class 3L (max)                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Sensitivity(Analog)                           | 0.16uV(12dB SINAD)<br>0.14uV(Typical)(12dB SINAD)                                                                                                                                                                                                                                                                                                                                                                                                                            | /                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Dust and Water Intrusion                      | IP64/IP66/IP67/IP68<br>PER IEC-60079-0:2017 & IEC-60529                                                                                                                                                                                                                                                                                                                                                                                                                      | IP64/IP66/IP67/IP68<br>PER IEC-60079-0:2017 & IEC-60529                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Standard Compliance                           | Analog Conventional Mode<br>Digital Conventional Mode<br>MPT<br>DMR Tier III Trunking                                                                                                                                                                                                                                                                                                                                                                                        | /                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| E2E Basic Encryption                          | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| E2E Advanced Encryption                       | Optional                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Optional                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Hard Encryption                               | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Man-down                                      | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Lone Worker                                   | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Voice Recording                               | /                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | /                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Dedicated Emergency Button                    | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Priority Interrupt                            | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Roaming / Site Search                         | Optional                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Optional                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

IIA Intrinsically Safe Two-way  
Radio Comparison Table

|                                               | HP79XEX IIA                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency Range                               | UHF: 400-480MHz<br>VHF: 136-174MHz                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Battery                                       | 2150mAh                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Battery Life(5/5/90 Duty Cycle,High TX Power) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Frequency Stability                           | ±0.5ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Dimensions (H x W x D)                        | 130mm x 55mm x 37mm                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Weight(with antenna&battery)                  | about 390g                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Display                                       | LCD,320x240 pixel,<br>262000 colors, 2.4inch                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Anti-explosion levels                         | IECEx:<br>Ex ib I Mb<br>Ex ib IIC T4 Gb<br>Ex ib IIIC T120°C Db<br>Tamb = -25°C to +60°C<br>IP66; IP67; IP68<br><br>ATEX:<br>I M2 Ex ib I Mb<br>II 2G Ex ib IIA T4 Gb<br>II 2D Ex ib IIIC T120°C Db<br>Tamb = -25°C to +50°C<br>IP66; IP67; IP68<br><br>USA:<br>CL I, ZN 1, AEx ib IIA T4 Gb<br>ZN 21, AEx ib IIIC T120°C Db<br>Tamb = -25°C to +50°C<br>IP66; IP67; IP68<br><br>CA:<br>Ex ib IIA T4 Gb<br>Ex ib IIIC T158°C Db<br>Tamb = -25°C to +50°C<br>IP66; IP67; IP68 |
| BT                                            | BT 5.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Positioning                                   | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| NFC                                           | Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| WLAN                                          | 2.4 G                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Camera                                        | /                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| RF Power Output                               | U9: 4W/1W<br>VHF: 5W/1W                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Sensitivity(Digital)                          | 0.16uV/BER5%                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Sensitivity(Analog)                           | 0.16uV(12dB SINAD)<br>0.14uV(Typical)(12dB SINAD)                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Dust and Water Intrusion                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Standard Compliance                           | Analog Conventional Mode<br>Digital Conventional Mode<br>MPT<br>DMR Tier III Trunking                                                                                                                                                                                                                                                                                                                                                                                        |
| E2E Basic Encryption                          | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| E2E Advanced Encryption                       | Optional                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Hard Encryption                               | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Man-down                                      | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Lone Worker                                   | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Voice Recording                               | /                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Dedicated Emergency Button                    | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Priority Interrupt                            | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Roaming / Site Search                         | Optional                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

