

DESIGNED FOR SAFETY

Intrinsically Safe DMR Portable Two-way Radio **HP79XEx IIA**









www.hytera-europe.com

For workers in the Oil and Gas industry or firefighters in the Fire and Rescue, they operate in extreme conditions and exposed to risks from explosive gas, combustible dusts, or chemical vapors. In the dangerous environments, safe, reliable, and high-efficient communication is paramount.

The HP79XEx IIA intrinsically safe DMR portable two-way radio leverages Hytera's 20 years of experience and expertise in explosion protection to take personal safety and mission-critical communications to a new level for the workers in oil and gas, mining, chemical, pharmaceuticals, and other industries with hazardous environments.

Certified with IECEx/ATEX, the HP79XEx IIA is the safest radio to maintain communication when personal are faced with hazardous working environments, without causing a fire or explosion. HP79XEx IIA has IS circuit, long-lasting explosion-proof battery, superior audio, extended radio coverage, and advanced ergonomics for easy operation.

Fire and Rescue

When firefighters make efforts to protect lives and properties in a place full of smoke, dust, and even toxic or explosive gases, the HP79XEx IIA provides safe and effective communications for them.

Oil and Gas

In dangerous environments with flammable liquid and explosive gas, the HP79XEx IIA provides safe & stable communication for operators to ensure their safety.

Mining

When miners work in complex coal mines with various explosive gases and combustible dust, such as methane, the HP79XEx IIA is available to provide personal with safe communications.

Manufacturing

In pharmaceutical processing, steel plant, food processing, and more industries where the chances of massive dust explosions are high, the HP79XEx IIA with a higher IS level can keep the workers safe by reliable communications.

Chemical Plant

In the chemical plant where the conversion and processing of flammable gases, liquids, and solids may lead to explosion, the HP79XEx IIA provides safe & stable communication for production.

Airport

In the airport with complex facilities that are exposed to fuels, the HP79XEx IIA offers all ground staff and on-site fire crew with instant and efficient communications



ULTIMATE SAFETY

The HP79XEx IIA intrinsically safe radio is certified to standards listed by IECEx. It has been developed to provide safe and reliable communication in hazardous environments by adopting the new materials, brand-new structural design and innovative IS circuit. With optimized RF solution and pioneering audio solution, it extends communication range and provides better audio. Moreover, the HP79XEx IIA prepares for the unexpected before it really happens, thanks to lone worker, man down, and precise positioning.

US

IECEx

ATEX

Ex ib I Mb Ex ib IIA T4 Gb Ex ib IIIC T120°C Db IP66/IP67/IP68, -25°C≤Ta≤+50°C | M2 Ex ib | Mb || 2G Ex ib ||A T4 Gb || 2D Ex ib |||C T120°C Db |P66/IP67/IP68, -25°C≤Ta≤+50°C

Class I, Zone 1, AEx ib IIA T4 Gb Zone 21, AEx ib IIIC T120°C Db

IP66/IP67/IP68, -25°C≤Ta≤+50°C

CA

Ex ib IIA T4 Gb Ex ib IIIC T120°C Db IP66/IP67/IP68, -25°C≤Ta≤+50°C



Built for Safety

🕑 Wider range of operation temperature (in Ex area)

Thanks to new explosion-proof materials and advanced mechanical design, the HP79XEx IIA is built to work under temperatures from -25°C to 50°C in explosion-prone areas. With stable and even heat dissipation, the HP79XEx IIA is engineered to work in the extreme conditions, bringing extra safety and efficiency to everyday work.

More powerful intrinsically safe circuit

The HP79XEx IIA adopts innovative silicone encapsulation technology to prevent liquid, inflammable dust, or explosive gas from intruding internal circuits. With multiple circuit protection mechanisms, the HP79XEx IIA strictly limits the electrical circuit's energy to a non-ignitable level during operation. Meanwhile, the circuit contributes to 5W(VHF) TX power and 2-watt audio power, extending the communications distance and boosting the audio loudness.

(Ex) Rugged Intrinsically safe Battery.

The IS battery is secured to the radio by battery protection plate and an anti-falling battery latch. Even if the HP79XEx IIA is dropped by accident, the battery will never become detached to avoid potential sparks in hazardous circumstances. In addition, the HP79XEx IIA prohibits the user to use a non original "IS" battery which alerts the user when it identifies a non-original battery has been detected with prompts on screen and flashing red LED indicator, as the safety of life and property cannot be endangered by any risks.

Latest anti-static technology

Electrostatic discharges are a source of ignition in explosive risk areas. Taking this in mind, the HP79XEx IIA first adopts high-strength, explosion-proof materials to prevent static electricity on the surface. Then the HP79XEx IIA uses a dual-material technology to resist the build-up of static electricity. So the workers can freely use the HP79XEx IIA removing the threat to lives and properties from the potential risk of spontaneous combustion or explosion.





Rugged and Certified

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The HP79XEx IIA is certificated with IP6X and MIL-STD-810H after a whole list of reliability tests such as accelerated life testing, impact test for the radio with 2.4-inch screen, and drop test. It is rugged enough to withstand dust, shock, or sudden drop. The workers can use the radio Where-ever they encounter harsh environments.

3 **Dual antimagnetic mechanism**

In the area containing metallic compounds, the HP79XEx IIA resists magnetic metal dust and shavings from the environments to damage the speaker — maintaining outstanding audio clarity and longer service life. All lies in the dual antimagnetic mechanism.

P:GROUP Call 1

Subgroup 1 03/21,Saturday

160:-92dBm

Subgroup

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12:00

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Built for Individuals safety

Bt Lone worker

Provides Lone Worker Protection and reassurance for those who work alone especially in dangerous environments, such as oil pipeline worker. If the HP79XEx IIA senses that the worker does not make any operation within a preset time, due to a worker becoming incapacitated and unable to move, this radio will automatically alarm and reports the location to the companion or control center for a welfare check.

Man down

Operative Down is ideal for emergency situation. If the worker has fallen and as a result has become unconscious or not able to move, the HP79XEx IIA automatically detects a sudden tilt towards the ground, and alarms and reports the location to the companion or control center for for a welfare check, this is vital to identifying dangers and preventing the loss of life.

Precise positioning

With the built-in positioning module, the HP79XEx IIA supports the flexible combination of GNSS, BDS, GLONASS and Galileo satellite systems. Also, the HP79XEx IIA enhances positioning accuracy down to one meter, thanks to the dual-frequency positioning technology. Such reliable and accurate location information helps locate the individual that may need assistance during an emergency event.

L1

L5



HIGH EFFICIENCY COMMUNICATIONS

The HP79XEx IIA takes critical communications to a new level, with the efforts of Hytera Audio Lab, RF & Antenna Lab, Energy-efficient Lab, and UX Design Lab*. The HP79XEx IIA keeps the workers always connected, from superior audio quality to extended radio range. The HP79XEx IIA performs longer thanks to the longlasting battery. Moreover, the HP79XEx IIA facilitates the usage and management in terms of versatile connectivity and easy-to-use design.

* Hytera Professional Lab.

🚓 Superior Audio Quality

Improved Speaker performance

Most explosion-prone environments are noisy, this radio provides clear and loud audio is the key to ensure effective communication among team members. The HP79XEx IIA, with a lighter and slimmer body, has a 2W speaker to deliver louder audio to improve team collaboration and work efficiency.

Ultra Clarity

With cutting-edge audio processing technology adopted, the HP79XEx IIA delivers crisp, clear audio even in complex environments, ensuring clearer audio for Mission-critical and business-critical communications.

Al-based noise cancellation

The HP79XEx IIA adopts the most advanced Al-based noise cancellation algorithm and gets machine learning behavior. After learning and training thousands of noise samples, the HP79XEx IIA can quickly separate the human voice from the noise, allowing the workers to receive clear commands.

Water-porting design

The speaker has a unique water-porting design that can automatically expel water from the speaker's acoustic cavity quickly. Even in heavy downpours, the HP79XEx IIA will still deliver clear audio.

Automatic gain control

Automatic gain control (AGC) automatically increases or decreases microphone gain to ensure consistently loud and clear audio output, regardless of how softly or loudly the workers are talking into the microphone.

Feedback suppression

Using the innovative feedback suppression algorithm, the HP79XEx IIA eliminates a feedback sound when two radios are too close, even 30 cm away from each other.





Longer lasting Battery

The standard 2150 mAh battery, together with the cutting-edge low power consumption technology, can outlast the shift. The workers can check the remaining battery and battery health on the radio and extend the battery life using the smart charger.



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Extended Radio Range

Thanks to the new-designed powerful IS circuits and RF optimization solution, HP79XEx IIA features 5W(VHF) transmitting power and industry-leading receiving sensitivity (0.16µV), providing more smooth communications even at a distance or in the edge area, further enhancing personal safety and work efficiency.

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Bluetooth 5.3

The HP79XEx IIA can connect to wireless IS accessories* Fast and stable, without the hassle of wires and cables. Moreover, the HP79XEx IIA can run the BT-based applications developed by the third party that covers more scenarios.



Wireless Lan

The HP79XEx IIA facilitates remote management through the WiFi, such as programming, upgrading*, and log management*. It is a smarter way to manage radios in batch without getting them back and forth between the field and the office, greatly reducing operational expenses.



NFC

The HP79XEx IIA can be easily recognized and managed via NFC tag as per actual requirements.

* Not provided by Hytera. The radio adapts the third-party wireless IS accessories.

* Coming soon.

Easy to Use



At a Glance



SPECIFICATIONS

General	
Frequency Range	400-480MHz 136-174MHz
Channel Capacity	1024
Zone Capacity	64
Channel Spacing	12.5kHz/20kHz/25kHz
Operating Voltage	7.4V (rated)
	2,150 mAh IIC intrinsically safe Li battery (Typical)
Battery	
Battery Life	22h (GNSS OFF)
(5/5/90)	19h (GNSS ON)
Frequency Stability	土0.5ppm
Antenna Impedance	50Ω
Dimensions (H x W x D)	130 x 55 x 37mm
Weight (with antenna & battery)	about 390g
Display	2.4 inch LCD, 320 x240 pixel, 262000 colors
Connectivity	BT 5.3 BLE+EDR/WiFi 2.4G/NFC: ISO/IEC 15693
Receiver	
	Analogy 0.16 W/(12dR SINAD)
	Analog: 0.16uV(12dB SINAD) 0.14uV(Typical)(12dB SINAD)
Sensitivity	Digital: 0.16uV/BER5%
	-
Adjacent Channel Selectivity	TIA-603: 60dB@12.5kHz; 70dB@20/25kHz ETSI: 60dB@12.5kHz; 70dB@20/25kHz
Intermodulation	TIA-603: 70dB@12.5/20/25kHz
	ETSI: 65dB@12.5/20/25kHz
Spurious Response Rejection	TIA-603: 70dB@12.5/20/25kHz
	ETSI: 70dB@12.5/20/25kHz
Blocking	TIA-603: 80dB ETSI: 84dB
Hum and Noise	40dB@12.5kHz; 43dB@20kHz; 45dB@25kHz
Rated Audio Power Output	0.5W
Rated Audio Distortion	≤3%
Audio Response	+1 ~ -3dB
Conducted Spurious Emission	<-57dBm
Transmitter	- 57dbin
RF Power Output	UHF: 4W/1W; VHF: 5W/1W
ni rower output	
FM Modulation	11K0F3E@12.5kHz 14K0F3E@20kHz 16K0F3E@25kHz
4FSK Digital Modulation	12.5kHz Data Only: 7K60FXD 12.5kHz Data and Voice: 7K60FXW
C 1 1 1/D 1: 1 1 5 1 1	
	-36dBm<1GHz; -30dBm>1GHz
Modulation Limiting	土2.5kHz@12.5kHz;土4.0kHz@20kHz; 土5.0kHz@25kHz
Modulation Limiting FM Hum & Noise	土2.5kHz@12.5kHz;土4.0kHz@20kHz; 土5.0kHz@25kHz 40dB@12.5kHz; 43dB@20kHz; 45dB@25kHz
Modulation Limiting FM Hum & Noise	土2.5kHz@12.5kHz;土4.0kHz@20kHz; 土5.0kHz@25kHz
Modulation Limiting FM Hum & Noise Adjacent Channel Power	土2.5kHz@12.5kHz;土4.0kHz@20kHz; 土5.0kHz@25kHz 40dB@12.5kHz; 43dB@20kHz; 45dB@25kHz
Modulation Limiting FM Hum & Noise Adjacent Channel Power Audio Response	土2.5kHz@12.5kHz;土4.0kHz@20kHz;土5.0kHz@25kHz 40dB@12.5kHz; 43dB@20kHz; 45dB@25kHz 60dB@12.5kHz; 70dB@20/25kHz
Modulation Limiting FM Hum & Noise Adjacent Channel Power Audio Response	土2.5kHz@12.5kHz;土4.0kHz@20kHz; 土5.0kHz@25kHz 40dB@12.5kHz; 43dB@20kHz; 45dB@25kHz 60dB@12.5kHz; 70dB@20/25kHz +1 to -3dB
Modulation Limiting FM Hum & Noise Adjacent Channel Power Audio Response Audio Distortion Digital Vocoder Type	±2.5kHz@12.5kHz;±4.0kHz@20kHz;±5.0kHz@25kHz 40dB@12.5kHz;43dB@20kHz;45dB@25kHz 60dB@12.5kHz;70dB@20/25kHz +1 to -3dB ≤3% AMBE+2 [™]
Modulation Limiting FM Hum & Noise Adjacent Channel Power Aduio Response Aduio Distortion Digital Vocoder Type Digital Protoca	±2.5kHz@12.5kHz;±4.0kHz@20kHz;±5.0kHz@25kHz 40dB@12.5kHz;43dB@20kHz;45dB@25kHz 60dB@12.5kHz;70dB@20/25kHz +1 to -3dB ≤3%
Modulation Limiting Image: Constraint of the second seco	±2.5kHz@12.5kHz;±4.0kHz@20kHz;±5.0kHz@25kHz 40dB@12.5kHz;43dB@20kHz;45dB@25kHz 60dB@12.5kHz;70dB@20/25kHz +1 to -3dB ≤3% AMBE+2 [™]
Digital Protoca	±2.5kHz@12.5kHz;±4.0kHz@20kHz;±5.0kHz@25kHz 40dB@12.5kHz; 43dB@20kHz; 45dB@25kHz 60dB@12.5kHz; 70dB@20/25kHz +1 to -3dB ≤3% AMBE+2 [™] ETSI TS102 361-1, -2, -3, -4 -30°C to +60°C (in non-hazardous area)
Modulation Limiting Image: Constraint of the second seco	±2.5kHz@12.5kHz;±4.0kHz@20kHz;±5.0kHz@25kHz 40dB@12.5kHz;43dB@20kHz;45dB@25kHz 60dB@12.5kHz;70dB@20/25kHz +1 to -3dB ≤3% AMBE+2 [™] ETSI T5102 361-1,-2, -3, -4 -30°C to +60°C (in non-hazardous area) -25°C to +50°C (in hazardous area) -40°C~ +85°C
Modulation Limiting I FM Hum & Noise I Adjacent Channel Power I Audio Response I Audio Distortion I Digital Vocoder Type I Digital Protoca I Environmental I Operating Temperature I	±2.5kHz@12.5kHz;±4.0kHz@20kHz;±5.0kHz@25kHz 40dB@12.5kHz; 43dB@20kHz; 45dB@25kHz 60dB@12.5kHz; 70dB@20/25kHz +1 to -3dB ≤3% AMBE+2 [™] ETSI TS102 361-1, -2, -3, -4 -30°C to +60°C (in non-hazardous area) -25°C to +50°C (in hazardous area)
Modulation Limiting I FM Hum & Noise I Adjacent Channel Power I Audio Response I Audio Distortion I Digital Vocoder Type I Digital Protoca I Environmental I Operating Temperature I Storage Temperature I	$\begin{array}{l} \pm 2.5 \text{kH}z @ 12.5 \text{kH}z; \pm 4.0 \text{kH}z @ 20 \text{kH}z; \pm 5.0 \text{kH}z @ 25 \text{kH}z \\ 40d \text{B} @ 12.5 \text{kH}z; 43d \text{B} @ 20 \text{kH}z; 45d \text{B} @ 25 \text{kH}z \\ 60d \text{B} @ 12.5 \text{kH}z; 70d \text{B} @ 20/25 \text{kH}z \\ \pm 1 \text{ to } -3 \text{dB} \\ \leq 3\% \\ \hline \\ \textbf{AMBE+}2^{1M} \\ \textbf{ETSI TS 102 361-1, -2, -3, -4} \\ \hline \\ \textbf{-30^{\circ}C to +60^{\circ}C (in non-hazardous area)} \\ -25^{\circ}C \text{ to } +50^{\circ}C (in hazardous area) \\ -25^{\circ}C \text{ to } +50^{\circ}C \\ \textbf{IEC 61000-4-2 (Level 4)} \\ \pm 8 \text{kV (contact);} \\ \pm 15 \text{kV (air)} \\ \end{array}$
Modulation Limiting I FM Hum & Noise I Adjacent Channel Power I Audio Response I Audio Distortion I Digital Vocoder Type I Digital Protoca I Environmental I Operating Temperature I Storage Temperature I ESD Dustproof & Waterproof	$\begin{array}{l} \pm 2.5 \text{kH}z @ 12.5 \text{kH}z; \pm 4.0 \text{kH}z @ 20 \text{kH}z; \pm 5.0 \text{kH}z @ 25 \text{kH}z\\ 40d \text{B} @ 12.5 \text{kH}z; 43d \text{B} @ 20 \text{kH}z; 45d \text{B} @ 25 \text{kH}z\\ 60d \text{B} @ 12.5 \text{kH}z; 70d \text{B} @ 20/25 \text{kH}z\\ +1 \text{ to} -3 \text{dB}\\ \leq 3\%\\ \hline\\ AMBE+2^{1M}\\ \hline\\ \text{ETSI TS 102 361-1, -2, -3, -4}\\ \hline\\ -30^{\circ}\text{C to} +60^{\circ}\text{C (in non-hazardous area)}\\ -25^{\circ}\text{C to} +50^{\circ}\text{C (in hazardous area)}\\ -25^{\circ}\text{C to} +50^{\circ}\text{C (in hazardous area)}\\ -40^{\circ}\text{C} \sim +85^{\circ}\text{C}\\ \hline\\ \text{IEC 61000-4-2 (Level 4)}\\ \pm 8 \text{kV (contact);}\\ \pm 15 \text{kV (air)}\\ \hline\end{array}$
Modulation Limiting I FM Hum & Noise I Adjacent Channel Power I Audio Response I Audio Distortion I Digital Vocoder Type I Digital Protoca I Environmental I Storage Temperature I ESD Lustproof & Waterproof Humidity I	$ \begin{array}{l} \pm 2.5 \text{kH} z \oplus 12.5 \text{kH} z; \pm 4.0 \text{kH} z \oplus 20 \text{kH} z; \pm 5.0 \text{kH} z \oplus 25 \text{kH} z \\ 40d \text{B} \oplus 12.5 \text{kH} z; 43d \text{B} \oplus 20 \text{kH} z; 45d \text{B} \oplus 25 \text{kH} z \\ 60d \text{B} \oplus 12.5 \text{kH} z; 70d \text{B} \oplus 20/25 \text{kH} z \\ +1 \text{ to} -3 \text{ d} \text{B} \\ \leq 3\% \\ \text{AMBE} + 2^{\text{TM}} \\ \text{ETSI TS102 361-1, -2, -3, -4} \\ \hline \\ -30^{\circ}\text{C to} + 60^{\circ}\text{C (in non-hazardous area)} \\ -25^{\circ}\text{C to} + 50^{\circ}\text{C (in hazardous area)} \\ -25^{\circ}\text{C to} + 50^{\circ}\text{C (in con-hazardous area)} \\ -40^{\circ}\text{C} \sim +85^{\circ}\text{C} \\ \text{IEC 61000-4-2 (Level 4)} \\ \pm 8 \text{kV (contact);} \\ \pm 15 \text{kV (cair)} \\ \text{IP64/IP65/IP66/IP67/IP68 per IEC-60079-0:2017 & IEC-60529} \\ \text{MIL-STD-810H} \end{array} $
Modulation Limiting I FM Hum & Noise I Adjacent Channel Power I Audio Response I Audio Distortion I Digital Vocoder Type I Digital Protoca I Environmental I Operating Temperature I ESD I Dustproof & Waterproof I Humidity Shock and Vibration	$\begin{array}{l} \pm 2.5 \text{kH}z @ 12.5 \text{kH}z; \pm 4.0 \text{kH}z @ 20 \text{kH}z; \pm 5.0 \text{kH}z @ 25 \text{kH}z \\ 40d \text{B} @ 12.5 \text{kH}z; 43d \text{B} @ 20 \text{kH}z; 45d \text{B} @ 25 \text{kH}z \\ 60d \text{B} @ 12.5 \text{kH}z; 70d \text{B} @ 20/25 \text{kH}z \\ +1 \text{ to } -3 \text{dB} \\ \leq 3\% \\ \hline \\ AMBE+2^{1M} \\ \hline \\ ETSI TS 102 361-1, -2, -3, -4 \\ \hline \\ -30^{\circ}\text{C to } +60^{\circ}\text{C (in non-hazardous area)} \\ -25^{\circ}\text{C to } +50^{\circ}\text{C (in hazardous area)} \\ -25^{\circ}\text{C to } +50^{\circ}\text{C (in hazardous area)} \\ -40^{\circ}\text{C} \sim +85^{\circ}\text{C} \\ \hline \\ \\ \hline \\ IEC 61000-4-2 (Level 4) \\ \pm 8 \text{kV (contact);} \\ \pm 15 \text{kV (air)} \\ \hline \\ \hline \\ \hline \\ P64/IP65/IP66/IP67/IP68 \text{ per IEC-60079-0:2017 \& \text{IEC-60529} \\ \hline \end{array}$
Modulation Limiting Image: State Sta	±2.5kHz@12.5kHz;±4.0kHz@20kHz;±5.0kHz@25kHz 40dB@12.5kHz; 43dB@20kHz; 45dB@25kHz 60dB@12.5kHz; 70dB@20/25kHz +1 to -3dB ≤3% AMBE+2 [™] ETSI TS102 361-1, -2, -3, -4 -30°C to +60°C (in non-hazardous area) -25°C to +50°C (in hazardous area) -25°C to +50°C (in hazardous area) -25°C to +50°C (in hazardous area) -25°C to +80°-2 IEC 61000-42 (Level 4) ±8kV (contact); ±15kV (air) IP64/IP65/IP66/IP67/IP68 per IEC-60079-0:2017 & IEC-60529 MIL-STD-810H MIL-STD-810H
Modulation Limiting I FM Hum & Noise I Adjacent Channel Power I Audio Response I Audio Distortion I Digital Vocoder Type I Digital Protoca I Environmental I Operating Temperature I ESD I Dustproof & Waterproof I Humidity I Shock and Vibration I Location Services I	±2.5kHz@12.5kHz;±4.0kHz@20kHz;±5.0kHz@25kHz 40dB@12.5kHz; 43dB@20kHz; 45dB@25kHz 60dB@12.5kHz; 70dB@20/25kHz +1 to -3dB ≤3% AMBE+2 [™] ETSI TS102 361-1, -2, -3, -4 -30°C to +60°C (in non-hazardous area) -25°C to +50°C (in hazardous area) -25°C to +50°C (in hazardous area) -25°C to +80°C IEC 61000-42 (Level 4) ±3kV (contact); ±15kV (air) IP64/IP65/IP66/IP67/IP68 per IEC-60079-0:2017 & IEC-60529 MIL-STD-810H MIL-STD-810H BDS, GLONASS, Galileo
Modulation Limiting I FM Hum & Noise I Adjacent Channel Power I Audio Response I Audio Distortion I Digital Vocoder Type I Digital Protoca I Environmental I Storage Temperature I ESD I Dustproof & Waterproof I Humidity I Shock and Vibration I ENSS I TTFF(Time To First Fix) Cold Start I	±2.5kHz@12.5kHz;±4.0kHz@20kHz;±5.0kHz@25kHz 40dB@12.5kHz; 43dB@20kHz; 45dB@25kHz 60dB@12.5kHz; 70dB@20/25kHz +1 to -3dB ≤3% AMBE+2 [™] ETSI TS102 361-1, -2, -3, -4 -30°C to +60°C (in non-hazardous area) -30°C to +50°C (in hazardous area) -25°C to +50°C (in hazardous area) -40°C~+85°C IEC 61000-4-2 (Level 4) ±8kV (contact); ±15kV (air) IP64/IP65/IP66/IP67/IP68 per IEC-60079-0:2017 & IEC-60529 MIL-STD-810H MIL-STD-810H BDS, GLONASS, Galileo <35 seconds
Modulation Limiting I FM Hum & Noise I Adjacent Channel Power I Audio Response I Audio Distortion I Digital Vocoder Type I Digital Protoca I Environmental I Storage Temperature I ESD I Dustproof & Waterproof I Humidity I Shock and Vibration I Costion Services I	±2.5kHz@12.5kHz;±4.0kHz@20kHz;±5.0kHz@25kHz 40dB@12.5kHz; 43dB@20kHz; 45dB@25kHz 60dB@12.5kHz; 70dB@20/25kHz +1 to -3dB ≤3% AMBE+2™ ETSI T5102 361-1, -2, -3, -4 -30°C to +60°C (in non-hazardous area) -25°C to +50°C (in hazardous area) -25°C to +50°C (in hazardous area) -25°C to +50°C (in hazardous area) -40°C~ +85°C IEC 61000-4-2 (Level 4) ±8kV (contact); ±15kV (air) IP64/IP65/IP66/IP67/IP68 per IEC-60079-0:2017 & IEC-60529 MIL-STD-810H BDS, GLONASS, Galileo <35 seconds <1 second
Modulation Limiting I FM Hum & Noise I Adjacent Channel Power I Audio Response I Audio Distortion I Digital Vocoder Type I Digital Protoca I Environmental I Storage Temperature I ESD I Dustproof & Waterproof I Humidity I Shock and Vibration I ENSS I TTFF(Time To First Fix) Cold Start I	±2.5kHz@12.5kHz;±4.0kHz@20kHz;±5.0kHz@25kHz 40dB@12.5kHz;43dB@20kHz;45dB@25kHz 60dB@12.5kHz;70dB@20/25kHz +1 to -3dB ≤3% AMBE+2 [™] ETSI TS102 361-1, -2, -3, -4 -30°C to +60°C (in non-hazardous area) -25°C to +50°C (in hazardous area) -25°C to +50°C (in hazardous area) -25°C to +50°C (in con-hazardous area) -25°C to +50°C (in hazardous area) -40°C~ +85°C IEC 61000-4-2 (Level 4) ±8kV (contact); ±15kV (air) IP64/IP65/IP66/IP67/IP68 per IEC-60079-0:2017 & IEC-60529 MIL-STD-810H BDS, GLONASS, Galileo <35 seconds

Standard Accessories





Battery (Standard Capacity)

Charger





Belt Clip



Optional Accessories



Remote speaker Microphone Earpiece





Carry Case

Intrinsically Safe Hamlet Heavy Duty Noise-cancelling Headset kit





Intrinsically Safe and Adjustable Earset Intrinsically Safe Large PTT



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