FEATURES

Work Mode

- Digital Conventional
- Analog Conventional
- Digital Trunking

Data Services

- Text Message
- Status Message
- Quick Text Message
- Clarity Transmission

Safety

- Emergency
- Man Down
- Lone Worker
- Authentication
- Air Interface Encryption
- End-to-End Encryption
- Scrambler
- Disbale/Enable
- Micro SD Card

Voice Service

- Private Call
- Group Call
- All Call
- PSTN/PABX Call
- Broadcast Call
- Emergency Call
- Call Priority

Connection

- BT Audio
- BT Data
- High Efficiency GNSS
  -GPS
  -GLONASS
- Wide Range of Accessories
- Open API

Supplementary

- Profiles
- QR Code
- Roaming
- Covert Mode
- Radio Check
- Remote Monitor
- Alert Call







SPECIFICATIONS

General	
Frequency Range	UHF: 350~470MHz VHF: 136~174MHz
Channel Capacity	1024
Zone Capacity	64
Zone Channel	256
Channel Spacing	12.5kHz/20kHz/25kHz
Operating Voltage	7.7V (rated)
Battery	2400 mAh Li-polymer
Battery Life (5/5/90 Duty Cycle,High TX Power)	24h (GNSS disabled) 20h (GNSS enabled)
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω
Dimensions (H x W x D)	132 x 55 x 29.5mm
Weight(with antenna&battery)	310g
Display	LCD, 320×240 pixel, 262000 colors, 2.4 inch, 10 rows
BT	BT 5.0 BLE+EDR
Receiver	
Sensitivity	Analog: 0.18μV (12dB SINAD); 0.16μV (Typical) (12dB SINAD) Digital: 0.18μV/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	
RF Power Output	UHF:1W/4W VHF:1W/5W
FM Modulation	11K0F3E@12.5kHz 14K0F3E@20kHz 16K0F3E@25kHz
4FSK Digital Modulation	12.5kHz Data Only: 7K60FXD 12.5kHz Data and Voice: 7K60FXW
Conducted/Radiated Emission	-36dBm＜1GHz; -30dBm＞1GHz
Modulation Limiting	±2.5kHz@12.5kHz;±4.0kHz@20kHz; ±5.0kHz@25kHz
FM Hum&Noise	40dB@12.5kHz; 43dB@20kHz; 45dB@25kHz
Adjacent Channel Power	60dB@12.5kHz; 70dB@20/25kHz
Audio Response	+1 ~ -3dB
Audio Distortion	≤3%
Digital Vocoder Type	AMBE+2™
Environmental	
Operating Temperature	-20°C~+60°C
Storage Temperature	-40°C~+85°C
ESD	IEC 61000-4-2 (Level 4) ±8kV (contact); ±15kV (air)
Dust and Water Protection	IEC60529- IP68
Humidity	MIL-STD-810 G
Shock and Vibration	MIL-STD-810 G
Location Services	
Accuracy specs are for long-term tracking(5 satellites visible at nominal-130dBm)	
GNSS	GPS, GLONASS,BDS
TTFF(Time To First Fix) Cold Start	<1 min (Typical)
TTFF (Time To First Fix) Hot Start	<10 sec (Typical)
Horizontal Accuracy	<5m (probable at -130dBm)

OPTIONAL ACCESSORIES

Optimize your device with a suite of Hytera accessories for your HP78X. Making use of accessories can expand and customize the HP78X functionality for collaborative communications.


Wireless Earphone


Programming Cable (USB Port)


Wireless Finger PTT

Hytera
Respond & Achieve

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Hytera

EMPOWER YOUR OPERATION

HP78X

NEXT GENERATION DIGITAL PORTABLE RADIO



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NEW TECHNOLOGY, NEW EXPERIENCE, NEW FUTURE

As the leading supplier, Hytera has huge experience in R&D and manufacture of professional digital radios. and received a large number of suggestions and ideas from users of all industries. Having analyzed and extracted users' need, we perceive that it is not enough to improve the status: the radio needs to be more future ready.

Being inspired by these feedbacks, we are continuously envisioning and exploring better communication within an eco-system of new standards, new technologies, new products and new applications across the innovation chain. HP78X is the creative artwork on style and functions that refreshes the standards in professional digital two way radios, providing more efficient and more reliable experience with loud and clear audio, powerful battery, intuitive user interface, remarkable portability and ruggedness.

EVERY DESIGN THAT GOES INTO HP78X MAKES IT STAND APART.





HIGHLIGHTS

THINNER AND LIGHTER

An optimized mechanical design and a compact lithium polymer battery are discreetly made to HP78X, delivering the radio only 29.5mm in thicknesses and 310g in weight. This easy to carry and wear design benefits officers who highly focus on mission critical a lot, because they are no longer distracted by the size and weight.

LOUDER AND CLERAER AUDIO

The HP78X has louder and clearer audio though an optimized forward facing speaker and AI-based noise cancellation that decreases the unwanted background noise and howling. Water-porting technology is also used to drain out any water that gets into the speaker cavity, ensuring the audio clarity is maintained.

ENHANCED COVAREAGE

The HP78X extends the operation range and improve the talk range through high receiver sensitivity and high transmit power, stretching communications into areas where it simply was not possible before. The very enhanced coverage improves the user safety and reduces network cost as much as possible.

LONGER BATTERY LIFE

The latest in proven lithium polymer technology is used to the standard battery of HP78X. The battery is lighter and smaller than ever before, and still delivers a duty cycle of 5/5/90 on achieving a shift life of 24 hours on high transmit power. This powerful battery ensures a full day delivering of key information and calls.

MORE INTUIVITE AND EFFICIENT

The 2.4-inch screen gets a brand new intuitive UI to make the HP78X more efficient. It has Quick Access Menu that allows users to set the radio fast. Messages are listed in conversation for quick reading and review. The Interface Switcher is added to the option of programmable buttons, allowing quick switch between up to four frequently accessed interfaces.

HIGHER LEVEL OF RUGGEDNESS

HP78X is designed as per the MIL-STD-810 G. it is IP68 rated, impervious to water jets and submersible to a depth of 2 meters for 4 hours, and also resilient to 2-meter drops onto concrete. No matter where the mission drives the officer, the HP78X is the partner to count on, because it can stand up to the toughest environment.