FEATURES

Operating Mode

- Digital Conventional
- Analog Conventional
- Digital Trunking

Data Services

- Text Message
- Status Message
- Quick Text Message

Supplementary

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

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

Safety

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

APPLICATIONS


Transportation


Manufacturing


Business


Public Safety


Security


Utility

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™
Digital Protocol	ETSI-TS102 361-1,-2,-3
Environmental	
Operating Temperature	-30°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)

*Radio only - Battery -20°C

OPTIONAL ACCESSORIES

Standard

- Charger CH10L27
- Adapter PS1044
- Battery BP2403
- Antenna
- Belt Clip BC39
- Strap RO03

Optional


Wireless Earphone


Programming Cable (USB Port)


Wireless Finger PTT

Hytera Communications Europe
939 Yeovil Road, Slough, Berkshire, SL1 4NH
info@hytera-europe.com | www.hytera-europe.com

www.facebook.com/HyteraEurope
www.linkedin.com/company/hytera-communications-uk
www.instagram.com/Hytera.Europe
Subscribe on YouTube

Hytera reserves the right to modify the product design and the specifications. In case of a printing error, Hytera does not accept any liability. All specifications are subject to change without notice.

EMPOWER YOUR OPERATION

HP785

NEXT GENERATION DIGITAL PORTABLE RADIO

DMR



www.hytera-europe.com

NEW TECHNOLOGY, NEW EXPERIENCE, NEW FUTURE

As the leading supplier, Hytera has huge experience in R&D and manufacturing of professional digital radios. 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.

Taking inspiration from the feedback received from our users, 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. The HP785 is our brand new professional digital radio, and represents the future on style and functions that refreshes the standards in digital radios, providing more efficient and more reliable communication with loud and clear audio, powerful battery, remarkable portability and ruggedness for ease of use across multiple environments and industries.



HIGHLIGHTS

THINNER AND LIGHTER

An optimized mechanical design and a compact lithium polymer battery are discreetly made to fit into the HP785's design, making the radio only 29.5mm in thickness and 290g in weight. This easy to carry and minimalist design benefits officers by allowing them to keep their focus on the critical mission at hand.

LOUDER AND CLERAER AUDIO

The HP785 has louder and clearer audio through 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.

LONGER BATTERY LIFE

The latest in proven lithium polymer technology is used in the standard battery that is supplied with the HP785. 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 26 hours on high transmit power. This powerful battery ensures a full day of delivering key information and calls.

MORE INTUIVITE AND EFFICIENT

The 2.4-inch colour display gets a brand new intuitive UI to make the HP78X more efficient. It has Quick Access Menu that allows users to set the radio faster. 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.

ENHANCED COVAREAGE

The HP785 extends the operational range and improves the talk range through high receiver sensitivity and high transmit power, stretching communications into areas where it simply was not possible before. This enhanced coverage improves the user safety and reduces network cost as much as possible.

HIGHER LEVEL OF RUGGEDNESS

HP785 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 HP705 is the partner to count on, because it can stand up to the toughest environments.



2.4-inch color display

Loud and clear audio

Superior long battery life

AI based noise cancellation

Water-porting design

BT 5.0 audio and data

Micro SD Card