

FEATURES

Operating Mode

• Digital Conventional Analog Conventional

Digital Trunking

Voice Service

Private Call

Group Call

All Call

 PSTN/PABX Call Broadcast Call

 Emergency Call Call Priority

Quick Text Message

Data Services

Text Message

• Status Message

Connection

-GPS

Open API

Supplementary

Profiles

• QR Code Roaming

 Covert Mode • Radio Check

Remote Monitor

Alert Call

BT Audio

 BT Data High Efficiency GNSS

-GLONASS

• Wide Range of Accessories

• Micro SD Card

Safety

Emergency

• Lone Worker

• Air Interface Encryption

Scrambler

Man Down

• Authentication

• End-to-End Encryption

• Disable/Enable

APPLICATIONS













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 lii-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

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 t	racking(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

Belt Clip BC39

Strap RO03





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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.



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

Messages are listed in conversation for

quick reading and review. The Interface

programmable buttons, allowing quick switch between up to four frequently

allows users to set the radio faster.

Switcher is added to the option of

accessed interfaces.

LOUDER AND CLERAER AUDIO

The HP785 has louder and clearer audio through an optimized forward facing speaker and Al-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 HP785 extends the operational range and

improves the talk range through high receiver

sensitivity and high transmit power, stretching

coverage improves the user safety and reduces

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

communications into areas where it simply

was not possible before. This enhanced

network cost as much as possible.

HIGHER LEVEL OF RUGGEDNESS



Dedicated Emergency Button



Three programmable Buttons



Loud and clear speake









Sensitive Antenna

Supports Micro SD card

Superior li-polymer battery









P:GROUP Call 1

Subgroup 1

03/21,Saturday













Al based noise cancellation

Water-porting audio and data