SPECIFICATIONS

General	
Frequency Range	UHF: 400-527MHz VHF: 136-174MHz
Channel Capacity	1024
Zone Capacity	64
Channels Per Zone	256
Channel Spacing	12.5kHz/20kHz/25kHz
Operating Voltage	7.7V (rated)
Battery	2000 mAh Li-polymer
Battery Life (5/5/90)	16h (GNSS on) 20h (GNSS off)
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω
Dimensions (H x W x D)	HP60X: 122 x55 x 30.5mm HP68X: 122 x55 x 31.5mm
Weight (with antenna & battery)	HP60X: 265g HP68X: 280g
Display	HP60X: 0.91inch OLED Display HP68X: 160 x128pi xels, 65536colors, 1.8inch, 6rows
BT	BT 5.0 BLE+EDR
Receiver	
Sensitivity	Analogue: 0.18μV (12dB SINAD); 0.16μV (Typical) (12dB SINAD) Digital: 0.18μV/BER5%
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)
Dustproof & Waterproof	IEC60529-IP67
Humidity	MIL-STD-810 G
Shock and Vibration	MIL-STD-810 G

Location Services	
GNSS	GPS, GPS+GLONASS, GPS+BDS
TTFF(Time To First Fix) Cold Start	<1minute
TTFF(Time To First Fix) Hot Start	<10seconds
Horizontal Accuracy	<5meters

Accuracy specs are for long-term tracking
(95th percentile values>5 satellites visible at a nominal -130dBm signal strength)

*Radio only - Battery -20°C

ACCESSORIES

Standard


Charger


Adapter(12V/1A)


2000mAh
Li-polymer Battery

Antenna


Belt Clip


Strap

Optional


BT Wireless earpiece


Programming Cable
(USB Port)


BT wireless ring PTT


BT Wireless remote
speaker microphone


Wired Earpiece

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Professional DMR portable radio
HP6 SERIES
NEXT GENERATION DIGITAL RADIO

DMR
DIGITAL MOBILE RADIO ASSOCIATION



EMPOWER YOUR OPERATION

Small and light in style, the HP6 series delivers uncompromising clear audio and extended coverage together with powerful battery, exceptional ruggedness and abundant features. It is an ideal partner as well as an easy-to-use tool for customer-facing staff, enabling them to focus on their work and service at all times and places, thus increasing the productivity and efficiency of the organization.

HIGHLIGHTS

Light and Stylish

The streamlined HP6 series is compact and light for easy carrying and wearing. It has stunning clear audio and long battery life, always ensuring the professional service of your staff and organization.

Long Battery Life

HP6 series integrates proprietary technologies to reduce power consumption, meanwhile the latest in proven lithium polymer technology is used in the standard battery which is lighter and smaller than ever before.

HP6 series brings a long battery life over 20 hours@5-5-90 standard, so users no longer need to charge the radio or change the battery until their full shift is finished.

Rugged and Durable

Being manufactured as per the MIL-STD-810 G standard, the HP6 series is IP67 rated and resilient to a 2-meter drop to stand up to a lot of wear and tear. Now the tough environment will no longer slow your staff and organization down.

Clear Audio

HP6 series equips an optimised powerful loudspeaker that can help users to hear clear sounds even in a noisy environment. Water-porting technology is also used to drain out any water that gets into the speaker cavity, ensuring the audio clarity is maintained in case of water.

AI-based noise cancellation technology can decrease 30dB background noise and howling. No matter what noise environment the calling party is in, it ensures that the called party hears a clear sound.

Easy to Use

The HP6 series is designed for ease of use in a compact and discreet form factor. Tactile PTT, programmable buttons and keys allow professionals to respond positively. The integrated BT5.0 technology provides flexible wireless connection with accessories to keep their hands free.

Extended Range

Thanks to the improved receiver sensitivity, the HP6 series provides better connectivity both in marginal areas of coverage and indoors. This will deliver improved safety and operational benefits for operatives in the field.



HP60X HP68X

FEATURES

Operating Modes
- Digital Conventional
- Analogue Conventional

Voice Service
- Private Call
- Group Call
- All Call
- PSTN/PABX Call
- Emergency Call
- Priority Interrupt

Safety
- Emergency
- Man Down
- Lone Worker
- Authentication
- Air Interface Encryption
- End-to-End Encryption
- Disable/Enable

Analogue Mode
- 2-Tone signalling
- HDC1200

Data Service
- Text Message
- Quick Text Message

Connection
- BT Audio
- BT Data
- GNSS
  GPS
  GLONASS
- Open API

Supplementary
- Profiles
- Programmable Buttons
- Interface Switcher
- QR Code
- Roaming
- Remote Monitor
- Radio Check
- Alert Call