SPECIFICATIONS

General	
Frequency Range	UHF: 400-527MHz VHF:136-174MHz
Channel Capacity	1024
Zone Capacity	64
Zone Channels	256
Channel Spacing	12.5kHz/20kHz/25kHz
Operating Voltage	7.7V (rated)
Battery	2000 mAh Li-polymer Smart Battery: 3000 mAh Li-polymer (optional)
Battery Life (5/5/90)	2000mAh: 20h (GNSS OFF) 16h (GNSS ON) 3000mAh: 30h (GNSS OFF) 24h (GNSS ON)
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω
Dimensions (H x W x D)	2000 mAh:HP60X: 122 x 55 x 30.5mm HP68X: 122 x 55 x 31.5mm 3000 mAh:HP60X: 122 x 55 x 38mm HP68X: 122 x 55 x 39mm
Weight (with antenna & battery)	2000 mAh: HP60X: 265g HP68X: 280g 3000 mAh: HP60X: 302g HP68X: 317g
Display	HP60X: 0.91inch OLED Display HP68X: 160 x128pixels, 65536colors, 1.8inch, 6rows
BT	BT 5.3
Digital Protocol	ETSI-TS102 361-1,-2,-3
Receiver	
Sensitivity	Analog: 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™/SELP
Digital Protocol	ETSI-TS102 361-1,-2,-3
Environmental	
Operating Temperature	-20°C~ +60°C（2000mAh）, -30°C~ +60°C（3000mAh）
Storage Temperature	-40°C~ +85°C
ESD	IEC 61000-4-2 (Level 4) ±8kV (contact); ±15kV (air)
Dustproof & Waterproof	IP68 (2m,4h)
Humidity	Per MIL-STD-810H Standard
Shock and Vibration	Per MIL-STD-810H Standard

Location Services	
GNSS	GPS, GLONASS, GPS+GLONASS
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)

ACCESSORIES

Standard


Charger


Adapter(12V/1A)


Li-polymer battery 2000mAh

Antenna


Belt clip


Strap

Optional


BT Wireless earpiece


Programming cable (USB port)


BT wireless ring PTT


BT Wireless remote speaker microphone


Wired earpiece


Multi-unit charger


Li-polymer battery 3000mAh

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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 increase the productivity and efficiency of the organization.

HIGHLIGHTS

Light and Stylish

The streamlined HP6 series is compact and light for easy carrying and wearing, at the meanwhile 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 bring a long battery life over 20 hours@5-5-90 standard, users no longer need to charge the radio or change the battery until the full day work is finished.

Rugged and Durable

Being manufactured as per the MIL-STD-810H standard, the HP6 series is IP68(2 meters, 4 hours) rated and resilient to 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 optimized 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.

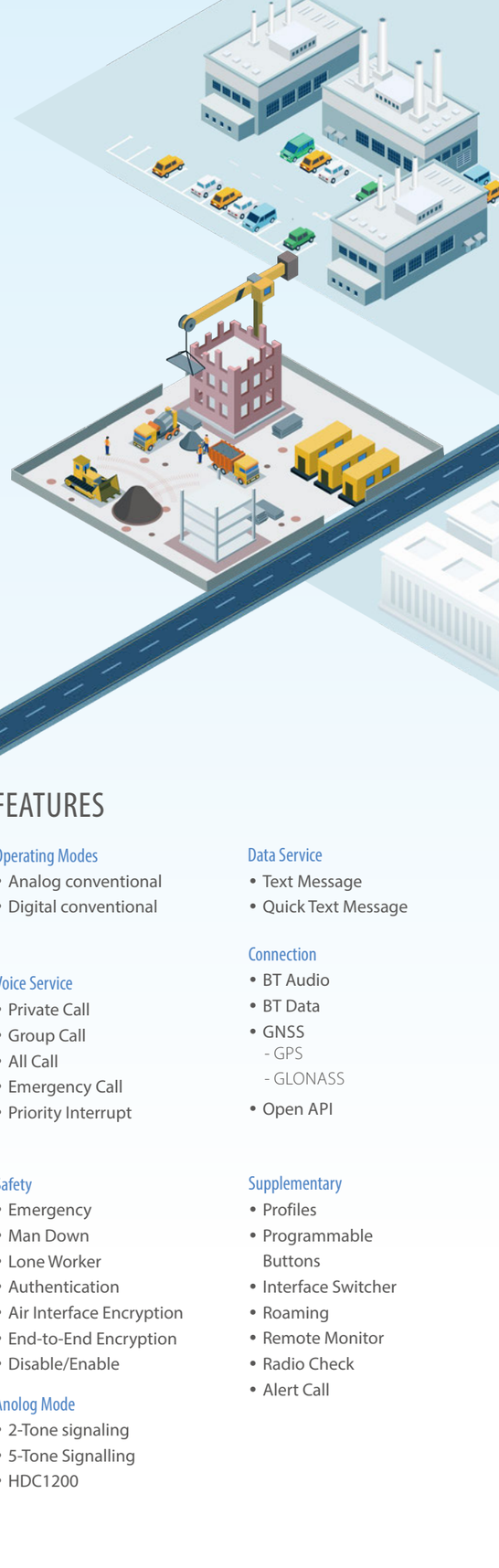
AI-based noise cancellation technology can decrease 30dB background noise and howling. No matter what noise environment the calling party is in, it ensures that the called party hears a clear sound.

Easy to Use

The HP6 series is designed for ease of use in a compact and discreet form. Tactile PTT, programmable buttons and keys allow professionals to respond positively. The integrated BT5.3 technology provides flexible wireless connection with accessories to keep their hands free. Channel alias display facilitates user identification of channels, and enhances user experience

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
- Analog conventional
- Digital conventional

Voice Service
- Private Call
- Group Call
- All Call
- Emergency Call
- Priority Interrupt

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

Anolog Mode
- 2-Tone signaling
- 5-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
- Roaming
- Remote Monitor
- Radio Check
- Alert Call