

# EMPOWER YOUR OPERATION

## HP6 SERIES

NEXT GENERATION DIGITAL PORTABLE RADIO



# 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.

### Clear Audio

The HP6 series uses the cutting-edge AI-based noise cancellation technology to decrease the unwanted background noise and reduce howling, maintaining high audio clarity. Users can now hear and be heard regardless of any noise.

### Long Battery Life

The HP6 series allows users to enjoy easy carrying and wearing, it has a long battery life over 20 hours @ 5-5-90 standard as well. 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-810 G standard, the HP6 series is IP67 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.

### 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 BT5.0 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.

## FEATURES

### Operating modes

- Digital Conventional
- Analog Conventional

### Data Service

- Text Message
- Quick Text Message

### Voice Service

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

### Connection

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

### Safety

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

### Supplementary

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



HP60X

HP68X

# 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                                                                 |
| Battery Life (5/5/90)           | 16h (GNSS on)<br>20h (GNSS off)                                                     |
| Frequency Stability             | ±0.5ppm                                                                             |
| Antenna Impedance               | 50Ω                                                                                 |
| Dimensions (H x W x D)          | HP60X: 122 x 55 x 30.5mm<br>HP68X: 122 x 55 x 31.5mm                                |
| Weight (with antenna & battery) | HP60X: 265g HP68X: 280g                                                             |
| Display                         | HP60X: 0.91inch OLED Display<br>HP68X: 160 x 128pixels, 65536colors, 1.8inch, 6rows |
| BT                              | BT 5.0 BLE+EDR                                                                      |

| Receiver                    |                                                                                        |
|-----------------------------|----------------------------------------------------------------------------------------|
| Sensitivity                 | Analog: 0.18μV (12dB SINAD);<br>0.16μV (Typical) (12dB SINAD)<br>Digital: 0.18μV/BER5% |
| Selectivity                 | TIA-603: 60dB@12.5kHz / 70dB@20/25kHz<br>ETSI: 60dB@12.5kHz / 70dB@20/25kHz            |
| Intermodulation             | TIA-603: 70dB@12.5/20/25kHz<br>ETSI: 65dB@12.5/20/25kHz                                |
| Spurious Response Rejection | TIA-603: 70dB@12.5/20/25kHz<br>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<br>14K0F3E@20kHz<br>16K0F3E@25kHz             |
| 4FSK Digital Modulation     | 12.5kHz Data Only: 7K60FXD<br>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)<br>±8kV (contact);<br>±15kV (air) |
| Dustproof & Waterproof | IEC60529-IP67                                             |
| Humidity               | MIL-STD-810 G                                             |
| Shock and Vibration    | MIL-STD-810 G                                             |

| 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)

\*Radio only - Battery -20°C

# ACCESSORIES

## Standard

- Charger CH10L27
- Adapter PS1044
- Battery BP2002
- Antenna
- Belt Clip BC48
- Strap RO03

## Optional



Wireless Earphone



Programming Cable  
(USB Port)  
PC45



Wireless Finger PTT



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