

Compact and lightweight, for comfortable carrying and wearing, this device is packed with the latest technology enabling you to communicate further, clearer, and longer.

The HP605 doesn't compromise on audio and comes with a rugged build and powerful battery. Ideal for customer-facing staff, maintenance engineers and security teams.



## Specifications

General	
Frequency Range	<b>UHF:</b> 400-527MHz <b>VHF:</b> 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), 20h (GNSS off)
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω
Dimensions (HxWxD)	122x55x30.5mm
Weight (with antenna & battery)	265g
Display	0.91inch OLED Display
BT	BT 5.0 BLE+EDR

Receiver	
Sensitivity	<b>Analog:</b> 0.18µV (12dB SINAD); 0.16µV (Typical) (12dB SINAD) <b>Digital:</b> 0.18µV/BER5%
Selectivity	<b>TIA-603:</b> 60dB@12.5kHz / 70dB@20/25kHz <b>ETSI:</b> 60dB@12.5kHz/ 70dB@20/25kHz
Intermodulation	<b>TIA-603:</b> 70dB@12.5kHz/20/25kHz <b>ETSI:</b> 65dB@12.5/20/25kHz
Spurious Response Rejection	<b>TIA-603:</b> 70dB@12.5/20/25kHz <b>ETSI:</b> 70dB@12.5/20/25kHz
Blocking	<b>TIA-603:</b> 80dB <b>ETSI:</b> 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	<b>UHF:</b> 1W/4W <b>VHF:</b> 1W/5W
FM Modulation	11K0F3E@12.5kHz, 14K0F3E@20kHz, 16K0F3E@25kHz
4FSK Digital Modulation	<b>12.5kHz Data Only:</b> 7K60FXD <b>12.5kHz Data and Voice:</b> 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, 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

### Call Systems Technology Ltd

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## Accessories

### Standard



**CH10L27**  
Single-unit Charger for Li-ion polymer battery



**PS1044**  
Universal Standard Switching Power Adapter



**BP2002**  
Li-polymer battery



**AN0155H08**  
VHF Antenna (136-174MHz/1575MHz)



**AN0435W09**  
UHF Antenna (400-470MHz)



**BC48**  
Spring Belt Clip



**RO03**  
Nylon wrist strap

### Optional



**ESW01**  
Wireless Headset with Boom Microphone (for helmet).



**PC45**  
Programming cable (USB to Serial) for handheld radios in PD6 and X1 series



**POA121**  
Bluetooth Ring PTT

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