

General

Digital Protocol	ETSI TS102 361-1, -2, -3, -4(optional)
Frequency	UHF1: 400-470MHz UHF3: 350-400MHz VHF: 136-174MHz
Channel Capacity	64*
Zone Capacity	4*
Channel Spacing	12.5kHz/20kHz/25kHz
Frequency Stability	±0.5ppm
Operating Voltage	7.4V
Battery Capacity	2600mAh(standard)
Battery Life	Analog: 16 Hours Digital: 20 Hours (5: 5: 90 working cycle, high power transmission)
Size (H x W x D)	100×54.5×37.5mm (without antenna)
Weight	270g
Vocoder	AMBE++
Bluetooth	BT2.1+EDR / 4.0 (optional)
Location	GPS / Glonass (optional)
Man down / Vibration	Support
Encryption	Support 40bit basic encryption; 128/256bit AES encryption is optional

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 Resistance	IP68
Reliability	MIL-STD-810G

GPS

Accuracy specs are for long-term tracking (95th percentile values >5 satellites visible at nominal -130 dBm signal strength)	
TTFF (Time to First Fix) - Cold Start	<60s
TTFF (Time to First Fix) - Hot Start	<10s
Horizontal Accuracy	<10m

Receiver

Sensitivity (Analog)	0.18uV(12dB SINAD)
Sensitivity (Digital)	0.18uV (5% BER)
Adjacent Channel Selectivity	60 dB@12.5KHz/70 dB@20/25KHz (TIA603A) -1T
	45dB@12.5KHz /70 dB@20/25KHz (TIA603D) -2T
	60dB@12.5KHz /70 dB@20/25KHz (ETSI)
Intermodulation	70 dB (TIA603D)
	65 dB (ETSI)
Spurious Rejection	70 dB (TIA603D)
	70 dB (ETSI)
Blocking	80dB(TIA603D)
	84dB(ETSI)
Co-channel Rejection	-12~0 dB @12.5KHz/-8~0 dB @20/25KHz
Hum and Noise	-40 dB@12.5KHz /-43 dB@20KHz /-45 dB@25KHz
Rated Audio Power	0.5W
Max Audio Power	2.0W
Rated Audio Distortion	≤3% (typical value)
Audio Response	+1~-3dB (TIA603D)
Conducted Spurious Emission	-57 dBm (TIA603D)

Transmitter

Power Output	1W/4W (UHF1/UHF3), 1W/5W (VHF)
FM Modulation	12.5KHz: 11K0F3E / 20KHz: 14K0F3E / 25KHz: 16K0F3E
4FSK Digital Modulation	12.5KHz Data Only: 7K60F1D&7K60FXD
	12.5KHz Voice Only: 7K60F1E&7K60FXE
	12.5KHz Voice And Data: 7K60F1W
Conducted/ Radiated Emission	-36dBm ≤1GHz ; -30dBm >1GHz
Modulation Limiting	±2.5KHz @12.5KHz /±4KHz @20KHz /±5.0KHz @25KHz
FM Hum and Noise	-40 dB@12.5KHz /-43dB@20KHz /-45 dB@25KHz
Adjacent Channel Power	60 dB@12.5KHz /70 dB @20/25KHz
Audio Distortion	≤3% (typical value)
Audio Response	+1~-3dB(TIA603D)

General Disclaimer
The specifications in this document are in accordance with the applicable standard test. Due to the continuous technology development, Caltta may change the specifications without timely notice.
* To realize 64 channel capacity and 4 zone capacity, users need to upgrade the firmware to V5.0 or above.



Privacy Statement:
Caltta Technologies is a leading provider of comprehensive critical communication solutions and committed to protecting personal data in accordance with applicable laws and regulations and with technologies including anonymization and data encryption and necessary security management measures.



Professional Digital Radio

Small in Size, Huge in Performance



MODEL PH600

Features



Compact Design

Only 270g(antenna and battery included) in weight and 100mm in height. Portable and easy to operate. The surface is designed with anti-slip texture, making it comfortable to hold and anti-slip even in wet environments.



Digital-and-analog Compatible

Digital-and-analog compatible, PH600 realizes the smooth evolution of the system. It also supports digital direct/repeater dual-time slots and automatic cross-site roaming.



IP68 Protection

IP68 rated, PH600 is resistant to water and dust, ensuring normal operation in extreme environments.



Full Encryption

Support 40bit basic encryption. 128/256bit AES encryption are optional. It also supports lone worker, alarm, man-down and other functions to protect users' safety.



Large-capacity Battery

With the 2600mAh large-capacity battery and digital power reduction technology, PH600 can work for at least 20 hours in digital mode(5:5:90), meeting the needs of long work shifts.



Loud and Clear Voice

With a 2W speaker and optimized audio design, PH600 ensures clear communication even in a noisy environment.



Complete Services

In addition to basic DMR voice and data services, PH600 also supports many optional features such as GPS/BDS , Bluetooth , VOX , etc.



Military Standard

MIL-STD-810G rated, PH600 is resistant to dropping and shocks at various levels.

Scenarios



Accessories

Standard



Desktop Charger



2600mAh Li-ion Battery



Power Adapter



Antenna



Belt Clip

Optional



8-way
Charger



Bluetooth
Earphone



Bluetooth
PTT Ring



Transparent Tube
Earphone



C-Style
Earphone



Remote
Microphone



Programming
Cable