

General	
Digital Protocol	ETSI TS102 361-1, -2, -3, -4
Frequency	UHF1: 400-470MHz UHF3: 350-400MHz VHF: 136-174MH
Channel Capacity	64*
Zone Capacity	4*
Channel Spacing	12.5kHz/20KHz/25KHz
Frequency Stability	±0.5ppm
Operating Voltage	7.4V
Battery Capacity	2000mAh(Standard)/3200mAh (Optional)
Battery Life	Analog: 13 Hours Digital: 16 Hours (5: 5: 90 working cycle, high power transmission)
Size (H x W x D)	130×54.5×36.5mm (without antenna)
Weight	340g (with antenna and battery)
Vocoder	AMBE++
Bluetooth	BT2.1+EDR / 4.0
Location	GPS
Man down / Vibration	Support
Real-time Clock	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	97dB(TIA603D)
	94dB(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 Trunking Radio

## More Professional, More Powerful



MODEL PH700

## Features



### Digital and Analog Compatible

PH700 meets DMR digital conventional/trunking standards, and compatible with analog conventional standard.



### Military Quality

MIL-STD-810G rated, PH700 is resistant to shocks and dropping at various levels.



### Clear and Loud

With 2W high-power loudspeaker combined with excellent sound chamber and noise reduction design, PH700 provides a clear and loud voice even in noisy environments.



### Large-capacity Battery

The standard 2000mAh battery combined with the power-saving design of digital technology ensures that the radio can be used for more than 16 hours under high power (5:5:90 mode).



### IP68 Protection

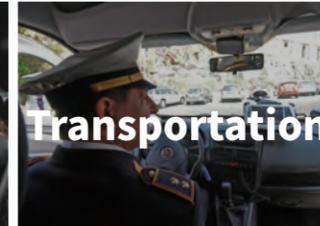
IP68 rated, PH700 is resistant to water and dust, ensuring normal operation in extreme environments.



### 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.

## Scenarios



## Accessories

### Standard



Desktop Charger



2000mAh Li-ion Battery



Power Adapter



Antenna



Belt Clip



Hand Rope

### Optional



8-way Charger



Bluetooth Earphone



Bluetooth PTT Ring



Transparent Tube Earphone



C-Style Earphone



Remote Microphone



3200mAh Li-ion Battery



Programming Cable