



HTT-700

Tactical VHF Radio

- Advanced SDR architecture.
- Multi-waveforms, multi-function, strong anti-interference, ad-hoc network.
- Up to 48kbps for data, short message and image transmission.
- Compact and lightweight industrial design , easy to use and operation.



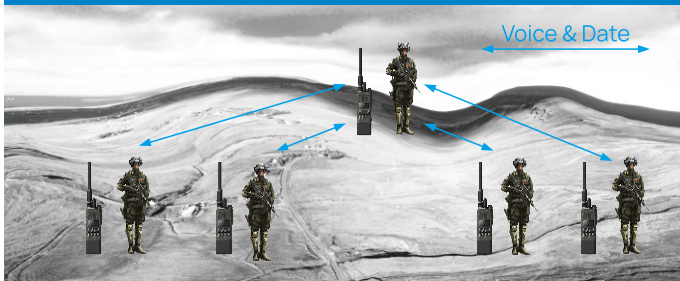
Handheld Radio



Vehicular/Fixed Radio

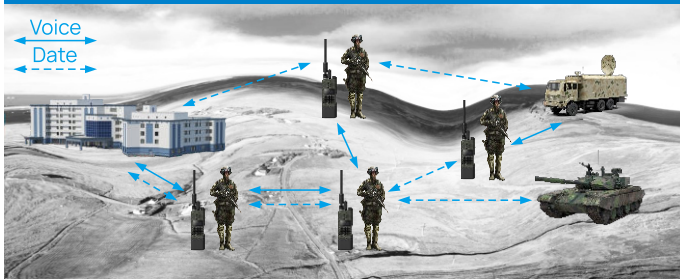
Advanced Waveforms

Combat Net Radio (CNR)



CNR network provides voice and data service. It is a point-to-point and point-to-multipoint communication networks. CNR includes 4 modes: FM (Frequency Modulation), FF (Fixed Frequency), FH (Frequency Hopping) and FCS (Free Channel Search).

Packet Radio Network (PRN)



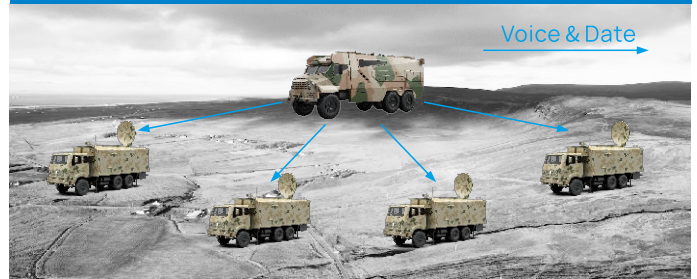
The PRN network realizes centerless, ad hoc network, and self-recovery data transmission through Ad-hoc network technology based on point-to-multipoint voice communication (1-hop relay). It realizes 32-node and 6-hop network to ensure real-time sharing of battlefield information. It supports data and voice transmission simultaneously.

Voice Relay Network (VRN)



With 6-hop relay, the VRN network can extend communication distance by 3-5 times, enhancing communication capability in indoor, jungle, and other complicated environments. It can work in the fixed frequency relay and frequency hopping relay modes.

Link Network (LINK)



LINK mainly serves as voice and real-time data transmission, supports data broadcasting, data and voice transmission at the same time. It has two working modes: fixed frequency and frequency hopping. LINK is mainly used in data application between weapon platforms. Any radio in this network can broadcast data to other radios, and multiple radios can broadcast data at the same time.

Highlights

Electronic Counter-Counter Measures (ECCM)

• Frequency Hopping (FH)

The radio contains a frequency hopping rate of 1,000 hops per second which ensures the communication can be succeeded with up to 60 % of working band interfered.

• Free Channel Search (FCS)

FCS mode is intended for operations that requires frequency agility in an high-noise or wideband radiojamming environment. With channel detection capability, it can find the best communication channel and increase communication distance by 30%.

Communication Security (COMSEC)

• Encryption

The radio provides AES 256 bit software encryption for both voice and data communication, as well as supports customized encryption board.

• Key Fill Gun

Key fill gun offers 6 functions: confidential information storage, networking configurations injection, encryption parameters backup, identity authentication, key erasing execution and also reserves key storage ability even if in the event of power loss.

• Key Erasing

The radio supports to erase the key manually or automatically, i.e., manually erasing the key by holding the combined buttons ; automatically erasing the key when the radio was disassembled.

Reliability

• Optimized Battery Performances

Continuously working for at least 10 hours (1:1:8,3800mAh) for the handheld radio through the unique adaptive energy saving technique. The operation temperature can be expanded to -40~+65°C by adopting the low temperature battery.

• Ruggedized

The radios are certified MIL-STD-810G

Usability

• GPS build-in module enables team leaders at the tactical level to track individual soldier position location information (PLI), enabling situational awareness.

• OLED screen provides high brightness, wider viewing range, and readable capability under direct sunlight.

• Power and volume buttons are separated along both sides of PTT button to prevent mistakenly touch.

• Versatile applications such as data transmission software, PC programming kit

Specification

General	
Frequency Range	30-88MHz
Channels	2320 at 25kHz spacing
Net Preset	100 total/15 selectable from switch
RF Output Impedence	50Ω
FM Deviation	5.6kHz±1kHz
Waveforms	CNR/VRN/PRN/LINK
Transmission Modes	FM/GMSK/CPM
COMSEC	AES 256/Customized
Data Rate	≤48kbps
Weight	Handheld: ≤0.58 kg (with battery) Vehicular/Fixed: ≤8.1 kg
Dimension (W×H×D, mm, ±5mm)	Handheld: 72.5×220×36.5 (with battery) Vehicular/Fixed: 278×320×150
Transmitter	
Output Power	Handheld: 0.5/2/4W Vehicular/Fixed: 5/20/50W

Receiver	
Sensitivity	Handheld ≤ -118dBm (SINAD=12dB) Vehicular/Fixed: ≤ -116dBm (SINAD=12dB)
Audio Power	2W (16Ω)
Audio Distortion	≤3%
Electronic Protection Measure (EPM)	
ECCM	FH/FCS
Max. Hopping Rate	1,000hops/s
Environmental	
Storage Temperature	Handheld: -45°C~70°C; Vehicular/Fixed: -50°C~85°C
Operating Temperature	Handheld: -40°C to +65°C (Low temp. Battery) Vehicular/Fixed: -40°C to +65°C
Environmental Conditions	MIL-STD-810G

Power Amplifier



HTT-700-V01

Vehicluar/Fixed: 5/20/50W Power Amplifier offers jerk & run' features, so that the radio can be dismantled from the amplifier set without shut down.

The vehicluar/fixed radios not only remain all operation modes but also improve link reliability and expand coverage areas.

Accessories



1.3m Handheld
Radio Antenna



Power Supply



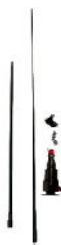
3800mAh Handheld
Radio Battery



Key Fill Gun



3m Vehicle Antenna



3m Fixed Antenna



Palm Microphone
with Display



Tactical Headset



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