

PowerTrunk-T HTT-500

TETRA Portable Land Mobile Radio

For digital trunked UHF and 800 MHz LMR networks

The PowerTrunk-T HTT-500 portable radio is all about coverage, audio quality and reliability.

It packs a unique 3 watts of RF output* for improved coverage, 1 watt of audio, 18+ hours of battery power and is set to go with the latest features including Bluetooth® connectivity, a WAP browser, GPS, and a man-down alarm capability. The HTT-500 is solid, tough and durable, yet small and light-weight. This top-of-the-line, powerful, reliable and user-friendly radio comes with an intuitive, graphical color interface that is easy to learn and efficient in an emergency.



Coverage, audio and power when you need it

- Adaptive 3 watt RF output power* comes standard in all bands except 800 MHz which has 1.8 watts:
 - Provides significantly more coverage than other TETRA portable radios on the market — a critical capability especially for indoor situations.
 - Output power automatically adjusts from 15dBm to 35dBm (3 watts) to ensure reliable coverage as the user's location changes — while optimizing battery power.
 - Emergency calls are always automatically sent at full power.
- The 1 watt audio output power provides higher volume and crisp audio quality, a critical advantage in emergency situations.
- A high-capacity lithium-polymer battery comes standard with every unit:
 - Lasts over 18 hours (1800 mAh).
 - Light and thin form factor.

Security features you can depend on

- Man-down feature, essential for emergency situations, comes standard in all configurations.
- Optional built-in GPS sends location information periodically by time or distance and upon request. Supports the ETSI LIP protocol for faster position refreshing.
- Exceeds standard security requirements: FIPS 140-2 Level 3-oriented tamper-proof E2EE module, support for up to eight algorithms including AES 256 and OTAK functionality.

Easy to use, durable and light-weight

- Large, high-quality 1.8" color TFT display.
- Intuitive user interface is similar to a cell phone.
- WAP browser for customized data applications.
- Weighs less than 12.5 ounces yet feels solid in the hand.
- Exceeds TETRA environmental standards.
- Optional built-in Bluetooth® provides connectivity to wireless audio and data devices.

*To comply with FCC emission masks and occupied bandwidth limits in the US, the HTT-500 is offered in two versions: (1) ETSI standard TETRA for use specifically in FCC-authorized bands, and (2) FCC Part 90 certified TETRA-Interoperable D-LMR (TI D-LMR) for bands with more restrictive limits in which ETSI standard TETRA is not authorized. Both versions are fully interoperable and compliant with official TETRA Interoperability Profile (TIP) certification requirements.



Powerful • Secure • Reliable • Scalable

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Technical Characteristics

General

- Dimensions (H x W x D): 144.2 x 59 x 37mm/5.68 x 2.32 x 1.46 in.
- Weight: approx 350 g/12.34 oz.
- Audio output: 1W
- Battery life 5/5/90 (1W): >18h
- Battery life 5/5/90 (3W): >14h
- Display: Graphical color TFT 1.8" (128 x 160 pixels, 65,000 colors)

RF features

- TX output power: from 15mW to 3W (Class 3)
- FCC 0.2 version: 2W (1W in 800 MHz)
- Class A receiver
- Static sensitivity: -112dBm minimum
- Dynamic sensitivity: -103dBm minimum

Frequency bands

- 380-430 MHz
- 410-470 MHz
- 806-870 MHz

Services Supported

Mobility management

- Registration / deregistration
- Cell reselection (handover)
- Air interface migration and multiple manual network selection

Security services

- Authentication (terminal and mutual)
- Air interface encryption security class:
 - Class 1: Clear
 - Class 2: SCK
 - Class 3: DCK
- Algorithms: TEA1, TEA2 and TEA3
- OTAR (Over The Air Rekeying)
- Enable/disable (temporary and permanent)
- End-to-end encryption

Voice services

- Individual half-duplex calls with direct / hook signaling
- Individual duplex calls
- Group call: 1050 talk groups (for TMO / DMO or both)
- Broadcast call
- Phone calls (PSTN / PABX). DTMF transmission
- Emergency call (type destination address programmable)

Supplementary services include:

- Dynamic group number assignment
- Late entry
- Calling line identification
- Talking party identification
- Priority call
- Preemptive priority call
- Ambience listening
- Call authorized by dispatcher
- Transmit inhibit (TxI)
- Call register

Data services include:

- Status to individual or group address
- SDS (Type 1, 2, 3 and 4) to individual or group address (with or without TL)
- Secondary control channel support (up to 3)
- Simultaneous status and SDS data in a voice call
- Circuit mode data
- Multi-slot packet data (up to 4 slots)
- Inbox of up to 15 status
- Inbox of up to 15 SDS

- 100 preprogrammed status
- Outbox up to 15 SDS
- WAP browser
- Enhanced PEI port

MMI languages

- English, Spanish, French and others (consult).

Multiple Configurations

- Basic
- GPS
- Bluetooth®
- GPS and Bluetooth®
- End-to-end encryption and GPS

Environmental

General

- Operating temperature range: -30°C to +60°C / -20°F to +160°F
- TETRA conformance testing: ETSI EN 300 394-1:
 - 20°C to +55°C / -5°F to +130°F
- Storage temperature: -40°C to +85°C / -40°F to +185°F
- Dust and water: IP54

Classification according to ETSI EN 300 019 standard (equivalent to MIL-STD 810 C, D, E, F)

- Storage. Class 1.3. Non-weather protected storage locations (Class T1.3E)
- Transportation. Class 2.3. Public transportation (Class T2.3)
- Portable and non-stationary use:
 - Environmental Class 7.3. Partly weather protected and non-weather protected locations
 - Mechanical Class 7M3

Accessories

Chargers

- Desktop charger (1 slot + 1 battery)
- Desktop charger (5 slots + 5 batteries)
- Travel charger
- Vehicle lighter charger
- Standard lithium-polymer battery 1800 mAh

Audio

- Remote speaker microphone
- Ear hanger for remote speaker microphone
- Standard ear hanger
- Handsfree kit
- Semi-covert kit
- Covert kit

Others

- Helical and 1/4 wave antennas
- Nylon case with belt clip or belt swivel
- Leather case with belt swivel



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