

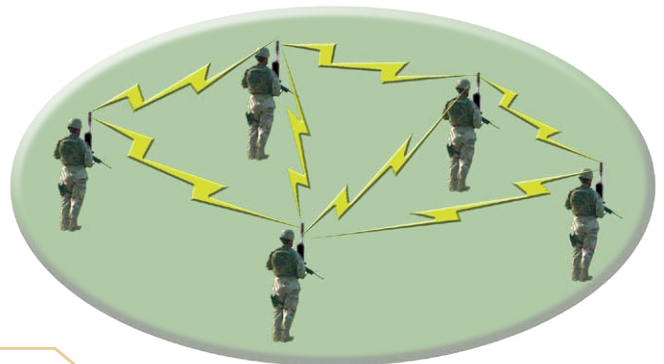


Thales Wideband Networking Radio (WNR) Multiband Inter/Intra Team Radio



Scalable Tactical MANET Communications Powered by the TrellisWare TopX-II Waveform

- Simultaneous Voice, IP data and PLI @ 2 Mbps
- Supports Standard IP Applications
- Self Forming, Self Healing Mobile Ad-hoc Network (MANET)
- Net Entry Time < 1sec
- Scalable Low Latency Networking up to Hundreds of Users
- Auto Routing Transparent to Operator
- Connect via Ethernet, USB or Bluetooth (BT)
- MIL-STD-810F, 2 Meter Immersion
- Standard AN/PRC-148 MBITR Form Factor



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Multiband Inter/Intra Team Radio

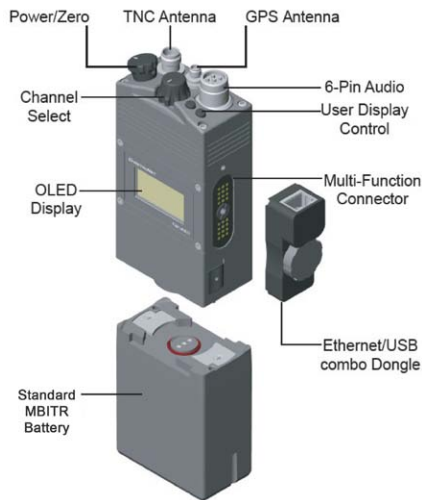


The Thales WNR, powered by the TrellisWare TopX-II waveform, is a handheld, portable, networked communications unit. It is designed to provide robust voice and data communication in the most challenging RF environments. This unique tactical Mobile Ad-Hoc Networking (MANET) product enables rapid deployment of high throughput networks across the harshest conditions.

The Thales WNR PHY and MAC layers have been designed to support simultaneous voice, IP data, and position location information (PLI) in extremely harsh environments.

The waveform uses the latest coding techniques paired with an innovative networking approach to achieve a scalable MANET design.

Advanced MANET features such as automatic self forming/self healing networks and voice prompts mean operators do not have to spend time configuring or setting network parameters in the field. Operation is intuitive and transparent to the operator, making training fast and simple.



USER INTERFACES

- Power on/off with pull/twist to zeroize
- Channel select
- 6-pin or 10-pin audio headset connector
- TNC antenna connector
- SMA GPS antenna connector
- Multifunction display with menu controls
- Ethernet/USB/BT via side connector dongle

- Non-U.S. sales are subject to U.S. Government approval.
- Specifications are subject to change without notice.

TECHNICAL SPECIFICATIONS

Frequency Bands

- 905 - 925 MHz
- 1775 - 1815 MHz

Transmit Power

- Configurable up to 2 Watts

Network Coverage

- 8 hop radius
- Large campuses to entire cities
- Static to highly mobile units

Capabilities

- Simultaneous PTT voice, streaming video, IP data, PLI
- Standard IP applications

Data Throughput

- Up to 2 Mbps

Data Latency

- 4 hops (100 ms end-to-end latency)
- 8 hops (220 ms end-to-end latency)

PTT Voice

- Up to 8 channels

Data Interfaces

- Ethernet (RJ-45), USB mini A/B
- Bluetooth

Encryption

- AES-256 on every channel

Waveform

- CPM with cooperative diversity

Physical Parameters

- Size: 5" x 2.6" x 1.5"
- Weight: 11.9 oz

Remote Network Monitoring

- Web-based configuration management

Environmental

- MIL-STD-810F, 2-meter immersion

Battery Life (5800 mAH MBITR)

- >14 hours

APPLICATIONS

Establish voice/data/video network in severely restricted environments:

- In-ship communications
- Mines or tunnels
- Urban and downtown areas
- Remote sensors
- BLOS extension
- UGV/UAS robotics communications
- High speed mobile platforms

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