



Vehicle Mounted SquadNet Radio

Seamless Integration between
Soldier and Vehicle

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The Vehicle Mounted SquadNet Radio (VMSR) provides communication between vehicles and dismounted SquadNet users. It enables dismounted soldiers to remain fully connected with platforms providing secure voice, location and data exchange including target locations.

SquadNet radios provide secure, high quality voice communications, location reporting and data to support battlefield management applications providing text/chat, picture/file exchange, causality management, target exchange, waypoints and other points of interest. All this in a radio that has class leading SWaP, endurance, range and performance.

The Vehicle Mounted SquadNet Radio (VMSR) provides all the functionality of SquadNet, but packaged in a form factor appropriate for vehicle mounting with the following features:

- Bulkhead or Tray mountable
- Secure attachment points
- Vehicle Intercom connection
- Dedicated power and GNSS input
- Additional audio and data connectors
- Robust antenna connector

Vehicle Mounted SquadNet Radio Key Benefits




Shared situational awareness between vehicles and dismounted troops



Target location and hand-off between dismounted troops and platforms



Bridging and reachback of dismounted troops with other communications networks through the vehicle intercom



Advantage node for MANET Network providing more assured communications for dismounted soldiers



Vehicle Mounted SquadNet Radio (VMSR) Specification:

- Size: 14cm x 14cm x 4cm (Width x height x depth)
- Weight: 250g
- Power Requirement: 12-24V
- Output Power: 250mW
- Frequency Bands: 431MHz - 470MHz or 865MHz - 880MHz
- Security Features: Red/Black Architecture, AES Encryption, Traffic and Key Encryption
- 100 programmable channels
- PIN protection
- Transmit timeout function
- Out of range indication
- Net Members Count
- Own Location Readout
- MIL-STD 810H Environmental
- MIL-STD 461F EMC
- Waveforms:
 - Standard Waveform with automatic '3-hop' Networking capability for more reliable and longer range comms with simultaneous Voice and Data services.
 - In addition the VMSR will run the same specialist waveforms as the standard SquadNet radio including:
 - Low Probability of Detection Waveform
 - Anti-Jam (Robust, Frequency Hopping Waveform)
 - Multiple Voice Mode (4 simultaneous Voice Nets)
 - Full Duplex Waveform
 - Dual Voice Net waveform
- Fully interoperable with the SABRE Application Provides:
 - Wireless remote control
 - Wireless Audio
 - Location overlaid on map
 - Target, way-points and other Points of Interest sending
 - Data sending (Text/Picture) transmission and display
 - Web-bridge reachback
 - Data export in various formats
- Integrated with ATAK, Sitaware and other Battlefield Management Applications

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350 Longwater Avenue
Reading, Berkshire RG2 6GF
Tel: +44 (0)118 943 4500
E-mail: squadnet@uk.thalesgroup.com

[thalesgroup.com](https://www.thalesgroup.com)

