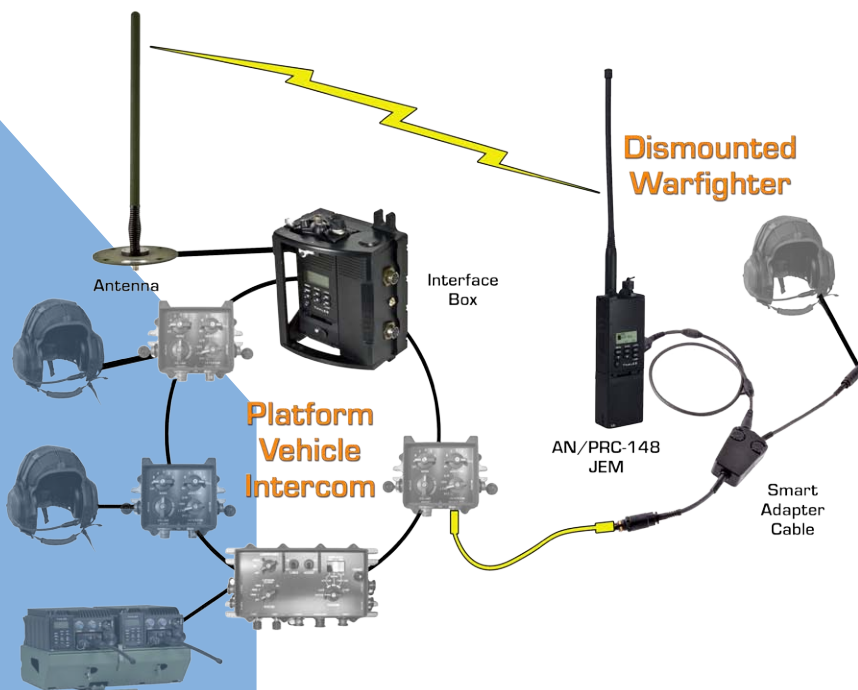




Mounted Soldier Cordless Communications System

Wireless Intercom Extension



- Use of Existing Broadly-Fielded Radio:
 - Provides Both Wireless Intercom and Tactical Line-of-Sight Communications
 - Does Not Introduce a New Radio Product Into USG Inventory
 - Logistically Supportable
- Supports Dismounted Crew Member When Disconnected
- Provides Combat Net Radio (CNR) Backup to Vehicle Platform
- Operates in Military Bands
- Programmable/Upgradeable Architecture
- JTRS SCA Compliant
- Supports JPEO JTRS Waveforms
- Full Duplex

Implemented with the AN/PRC-148 JEM



Mounted Soldier Cordless Communications System

Wireless Intercom Extension



Thales's Mounted Soldier Cordless Communications System (MSCCS) is the only JTRS compliant, non-proprietary, logistics supported wired/wireless communications system that supports a wide range of vehicle mission applications, ranging from a basic intercom to vehicle gateways that extend the digital battlefield. The Thales MSCCS solution provides tethered, as well as a quick-disconnect wireless untethered, link to the vehicle intercom system. This wireless link allows crew members to maintain full-duplex voice communications through the vehicle intercom system, allowing total freedom of movement. Each crew member carries an AN/PRC-148 JEM as the wireless link to communicate back into the intercom system to support untethered operations. On the vehicle, an AN/PRC-148 JEM, embedded in an Interface Box physically connected to the intercom system, bridges voice traffic between the dismounted/untethered crew member and the wired vehicle intercom system.

In the event that the vehicle intercom system becomes disabled and/or the dismounted crew member becomes isolated from the vehicle, the crew members can switch to a preprogrammed tactical mode (e.g., SINGARS) using any pre-programmed channel that is selectable. It is a forward-looking system that addresses safety, survivability, and mission accomplishment and is software upgradeable. In the event of loss of the SINGARS CNR, any of the AN/PRC-148 JEMs could be attached to the SINGARS antenna and provide reach-back to the Tactical Operations Center (TOC). **The only Type I wireless intercom available in the tactical band.**

GENERAL SPECIFICATIONS

Vehicle Integration

- Wireless Access VIC-3
- VIC-3

Transmit Output Power

- In MSCCS mode, 1W RF

Frequency Range

- 30 MHz to 512 MHz when the AN/PRC-148 is taken out of MSCCS mode

COMSEC

- Type 1 Secure

Battery Life

- Dismounted radio: >8 hours with Thales 5800 mAh battery

Number of Users

- 6 per Interface Box

Environmental Performance and Reliability

- Temperature (-31°C to +65°C)
- Vibration
- Ballistic shock
- Salt, fog, and fungus
- Immersion
- EMI/ESD
- Biological and chemical decontamination
- Blowing rain and various others conditions

Features and Performance of the AN/PRC-148 JEM:

- NSA-Certified Type 1 Secure to TOP SECRET
- JTRS SCA 2.2 Compliance
- 30-512 MHz Contiguous Frequency Band
- Rugged Environmental Performance
- Long Battery Life
- 2 Meter Immersibility
- Interfaces with Existing Accessories
- Familiar User Interface
- High Reliability
- Over-The-Air-Cloning
- Uses JEM Waveforms
 - Voice and Data
 - Plain Text
 - AM and FM LOS
 - ANDVT
 - SINGARS ESIP
 - HAVEQUICK I/II
 - APCO 25 Public Safety Common Air Interface
 - SATCOM Integrated Waveform (SATCOM IW)
 - 56 kbps High Throughput Waveform (HTW)
 - Mixed Excitation Linear Predictive Vocoder (MELP)

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



Thales Communications, Inc.

22605 Gateway Center Drive | Clarksburg, MD 20871
Toll-Free: 1.800.258.4420 | Phone: 240.864.7000 | Fax: 240.864.7920
E-mail: Solutions@thalescomminc.com | Website: www.thalescomminc.com



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