



The world wide leader of Link 16 solutions for air, ground, and maritime applications

## MIDS On Ship Modernized (MOS Mod) system

Offering full interoperability with all Link 16 systems, and adding capability with 1,000 watts of radio-frequency output power.

The MOS Mod system is a new version of the current multifunctional Information Distribution System (MIDS) On Ship, with the advantages of lower size, weight and power usage.

The cabinet is designed to meet MIL-S-901D shock requirements. It provides improved access to the internal line replaceable units through a single front door. The system is more than 60 percent lighter than the current system and has a reduced cabinet height of 48 inches.

The MOS Mod system contains a field-interchangeable MIDS Link 16 receiver/transmitter (either a MIDS LVT4 or MIDS JTRS BC2), along with a remote power supply, high-power amplifier, terminal controller computer and other ancillary items. The result is a turnkey Link 16 system for maritime installations.

In addition to its baseline capabilities, the MOS Mod system provides access to the host and support port Ethernet interfaces on the receiver/transmitter. This allows remote management of the terminal and, with a receiver/transmitter software update, use of the Ethernet port as the host interface.

It is the only system that provides 1,000-watt output power capability with the MIDS JTRS receiver/transmitter.

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### Performance characteristics

- Pseudo-random frequency hopping
  - 51 frequencies (up to 14 maybe be remapped) — 969 to 1206 MHz
  - 238 kbps (conventional Link 16)/1.1 Mbps (Link 16 enhanced throughput)
  - Jam-resistant and crypto secure
  - Supports multiple cryptographic algorithms
  - 128 possible nets
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## System characteristics

Height	48" (plus 5.5" for sway brace in back)
Width	24
Depth	35" (plus 6" for isolation braces)
Weight	600 lbs.

## Functional capabilities

- Full Link 16 capabilities of the Joint Tactical Information Distribution System (JTIDS), Class 2H
- Integrated, PC-based terminal controller
- 1,000-watt link 16 radio-frequency output
- Ability to switch between receiver/transmitter and HPA transmission without a cable change
- Dual antenna reception
- Dual-channel "J-Voice" (2.4k LPC-10 and 16k CVSD)
- Allows field-interchangeable receiver/transmitter between MIDS LVT4 and MIDS JTRS
- Geodetic navigation
- With MIDS JTRS receiver/transmitter
  - Frequency remapping
  - Crypto modernization
  - Enhanced throughput
  - Ready for concurrent multi-netting/concurrent contention receive MIDS JTRS terminal
  - Allows for up to three additional waveforms

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CS-17-A71-03-MIDS-JTRS-datasheet

