



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.

---

## 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
- 



# MIDS On Ship Modernized (MOS Mod) system

## 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

### For more information contact:

400 Collins Road NE  
Cedar Rapids, IA 52498  
Telephone: 319-295-4357  
Email: [dls@datalinksolutions.net](mailto:dls@datalinksolutions.net)  
[www.datalinksolutions.net](http://www.datalinksolutions.net)



This document gives only a general description of the product(s) or services and, except where expressly provided otherwise, shall not form part of any contract. From time to time, changes may be made in the products or the conditions of supply.

©2017 DLS. All rights reserved. Cleared for open publication on 06/17

CS-17-A71-01-MOSMod-datasheet