

## MIDS-LVT(1) LINK 16 TERMINAL

### Delivering Link 16 Networking for Aircraft and Shipboard Connectivity

L3Harris continues to lead the transformation in Link 16 capabilities by providing greater flexibility, enhanced technology, decreased cost and improved reliability within the terminal.

#### PRODUCT DESCRIPTION

The L3Harris MIDS-LVT(1) provides all operational modes of the Link 16 waveform. The terminal implements all required Multi-functional Information Distribution System (MIDS) host interfaces for both U.S. and coalition integration. In addition, re-programmable components and our modular architecture allow for both a lower cost and the flexibility to incorporate the Link 16 Advanced Capabilities.

With Block Upgrade 2 (BU2), our hardware implements the advanced Link 16 functions of Enhanced Throughput (ET), Cryptographic Modernization Initiative (CMI) and Frequency Remapping (FR). ET is a new capability that increases the network coded data throughput for MIDS-LVT terminals, from its current maximum of 115.2 kbps to over 1,100 kbps. Host interfaces and operational employment of this capability are still emerging (such as imagery or Situational Awareness file transfer). CMI provides improved cryptographic security, growth, and flexibility. FR allows for much easier DOD training and testing without the need for extensive frequency authorization activity. These improvements come with better External Time Reference stability and modernized Ethernet interfaces.

L3Harris delivers a family of combat-proven, fully qualified, and Electromagnetic Compatibility-Certified Link 16 MIDS terminals to U.S. forces and coalition partners under contracts with the U.S. Navy MIDS International Program Office (IPO) and other commercial customers.

#### SUPPORTED PLATFORMS

The L3Harris MIDS-LVT(1) meets the Link 16 requirements of all U.S. forces and coalition partners. It is designed for installation in fighter aircraft, including F-16s, F/A-18s and many international platforms. It is also being employed for EA-6B, P-3, B-2 and other critical platforms.



### Flexible, Reliable and Secure

#### KEY FEATURES

- > High capacity
- > Anti-jam
- > Highly secure
- > Situational awareness
- > Voice at 2.4 and/or 16 kbps
- > Embedded TACAN
- > Modern crypto
- > Enhanced throughput
- > Frequency remapping

#### ORDERING INFORMATION

- > PN: VA-218100-0050  
LVT(1) AN/USQ-140A(V)1(C)  
RT-1840A
- > PN: VA-218300-0050  
LVT(4) AN/USQ-140A(V)4(C)  
RT-1841A
- > PN: VA-218200-0050  
LVT(6) AN/USQ-140A(V)6(C)  
RT-1842A
- > PN: VA-218400-0050  
LVT(7) AN/USQ-140A(V)7(C)  
RT-1843A

## NEW APPLICATIONS OF LINK 16

L3Harris is the leader in the transformation of MIDS to Joint Tactical Radio System (JTRS) compliance. Through this and other key efforts such as IP over Link 16 demonstrations, enhanced Link 16 voice demonstrations, Link 16 payloads on satellites in Low-Earth Orbit (LEO), and other Bandwidth-on-Demand developments, we are contributing to the successful implementation of global Network Centric Communications. We are expanding the Link 16 user set through development of Non-Developmental Items (NDI), such as Small Tactical Terminals for helicopters, UAVs, deployable gateways and weapons, along with handheld Link 16 radios for ground tactical air controllers.

## SPECIFICATIONS

### PERFORMANCE CHARACTERISTICS

- > Link 16 Messaging: TADIL J and IJMS
- > Receive Sensitivity: Meets spec with 2 to 3 dB margin
- > Transmit Spectral Performance: Greater than -60 dBc in 1030/1090 MHz Bands
- > Output Transmit Power: 1, 25, or 200 W + HPA interface
- > Host Interfaces: MIL-STD 1553, X.25, Ethernet, and STANAG 3910
- > Data Throughput: 26.8 through 1102 kbps TADIL J Coded
- > Keyfill: DS 101 SKL modern crypto
- > Voice Capability: 2.4 kbps LPC-10, and 16 kbps CVSD
- > TACAN Capability: Air-to-Ground, Air-to-Air

### PHYSICAL CHARACTERISTICS

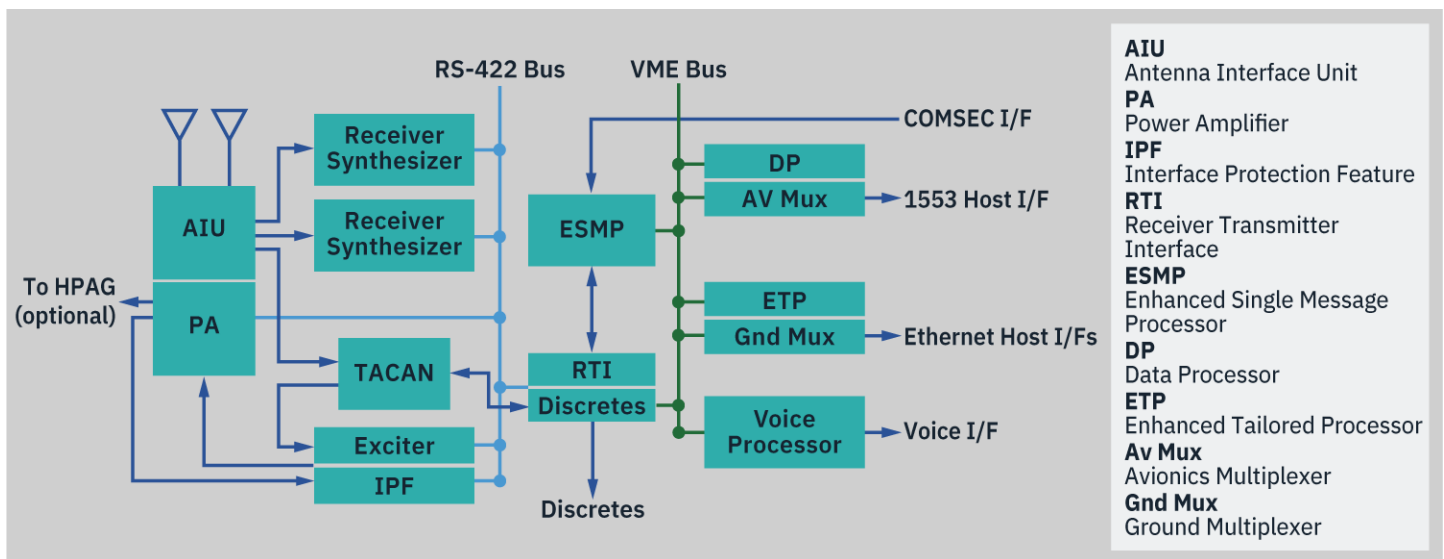
- > Main Terminal and RFA: 7.62" x 7.5" x 13.5"  
19.35 x 19.05 x 34.29 cm
- > Power Supply (PS): 7.62" x 2.252" x 13.46"  
19.35 x 5.72 x 34.19 cm
- > Volume: 1000 in.<sup>3</sup>; 16,300 cc
- > Weight:
  - MIDS-LVT RT LRU 42.5 lb; 19.28 kg
  - MIDS-LVT RPS LRU 9.0 lb; 4.08 kg

### POWER AND COOLING

- > Power Source Alternatives: 115 VAC; 400 Hz  
3 Phase or ± 140 VDC
- > Power Consumption: 0% TSDF 150 W,  
70% TSDF 350 W
- > Cooling: External conductive air

### OTHER CONFIGURATIONS

- > MIDS-LVT(4): Link 16 data and voice capable
- > MIDS-LVT(6): Link 16 data capable with embedded TACAN
- > MIDS-LVT(7): Link 16 data capable
- > Replacement for MIDS-LVT2/11 with Ground Power Adapter and Cooling Rack



### MIDS-LVT(1) Link 16 Terminal

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