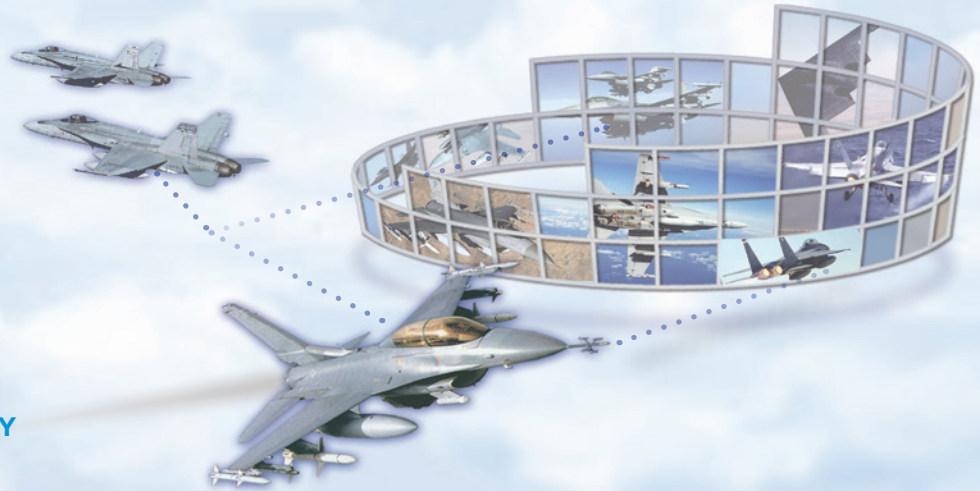




**LINK 16 NETWORKING
FOR AIRCRAFT AND
SHIPBOARD CONNECTIVITY
TO SUPPORT U.S. AND
COALITION OPERATIONS**



ViaSat's team led the transformation in Link 16 technology by being the first to upgrade the design of many components of the terminal to provide greater flexibility, enhanced technological capabilities, decreased cost and improved reliability. Embedded modules provide COMSEC and TACAN.

Through extensive use of reprogrammable components and a modular VME architecture, we've provided a lower cost design while also allowing for future requirements.

The ViaSat terminal provides all operational modes of the Link 16 waveform, and implements all required Multifunctional Information Distribution System (MIDS) host interfaces for both US and Coalition integration.

ViaSat hardware implements Enhanced Throughput, a new capability that can increase coded data throughput from its current maximum of 115.2 kbps to over 800 kbps. Host interfaces and operational employment of this capability are still in the planning stages.

Together with Harris and European Aeronautic Defense and Space Company (EADS), ViaSat is delivering a family of combat-proven, fully qualified, and EMC-Certified Link 16 MIDS terminals to U.S. Forces and Coalition partners under contracts to the Navy MIDS International Program Office (IPO) and other commercial customers.

SUPPORTED PLATFORM

ViaSat has developed the MIDS Low Volume Terminal (LVT) to meet the Link 16 requirements of all U.S. Forces and Coalition partners. We are currently under contract to produce several hundred MIDS-LVT(1) terminals. MIDS-LVT(1) is designed for installation in fighter aircraft, including F-16s, F/A-18s, and the Eurofighter 2000. It is also being employed for MIDS-on-Ship, EA-6B, P-3, B-2, Airborne Laser and other critical platforms.

NEW APPLICATIONS OF LINK 16

ViaSat is a leader in the transformation of MIDS to Joint Tactical Radio System (JTRS) compliance. Through this and other key efforts such as Weapon Data Link (WDL) initiatives, IP over Link 16 demonstrations, enhanced Link 16 voice demonstrations and other Bandwidth-on-Demand developments we are contributing to the successful implementation of Network Centric Communications.

AIRBORNE TERMINAL

**SMALLER, LIGHTER, AFFORDABLE
LINK 16 TACTICAL NETWORKING**

- » High Capacity
- » Anti-jam
- » Highly Secure
- » Situational Awareness
- » Voice at 2.4 and/or 16 kbps
- » Embedded TACAN

SPECIFICATIONS

PERFORMANCE CHARACTERISTICS

- » Link 16 Messaging TADIL J and IJMS
- » Receive Sensitivity Classified (meets spec with 2 – 3 dB margin)
- » Transmit Spectral Performance Greater than -60 dBc in 1030/1090 MHz Bands
- » Output Transmit Power 1, 25 or 200 Watts + HPA Interface
- » Host Interfaces MIL-STD 1553, X.25, Ethernet and STANAG 3910
- » Data Throughput 26.8 through 1102 (Growth) kbps TADIL J Coded
- » Keyfill DS-101
- » 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 in (19.35 x 19.05 x 34.29 cm)
- » Power Supply (PS) 7.62 x 2.252 x 13.46 in (19.35 x 5.72 x 34.19 cm)
- » Volume 1000 in³ (16,300 cc)
- » Weight
 - MIDS-LVT RT LRU 42.5 lb (19.28 Kg)
 - MIDS-LVT RPS LRU 9.0 lb (4.08 Kg)

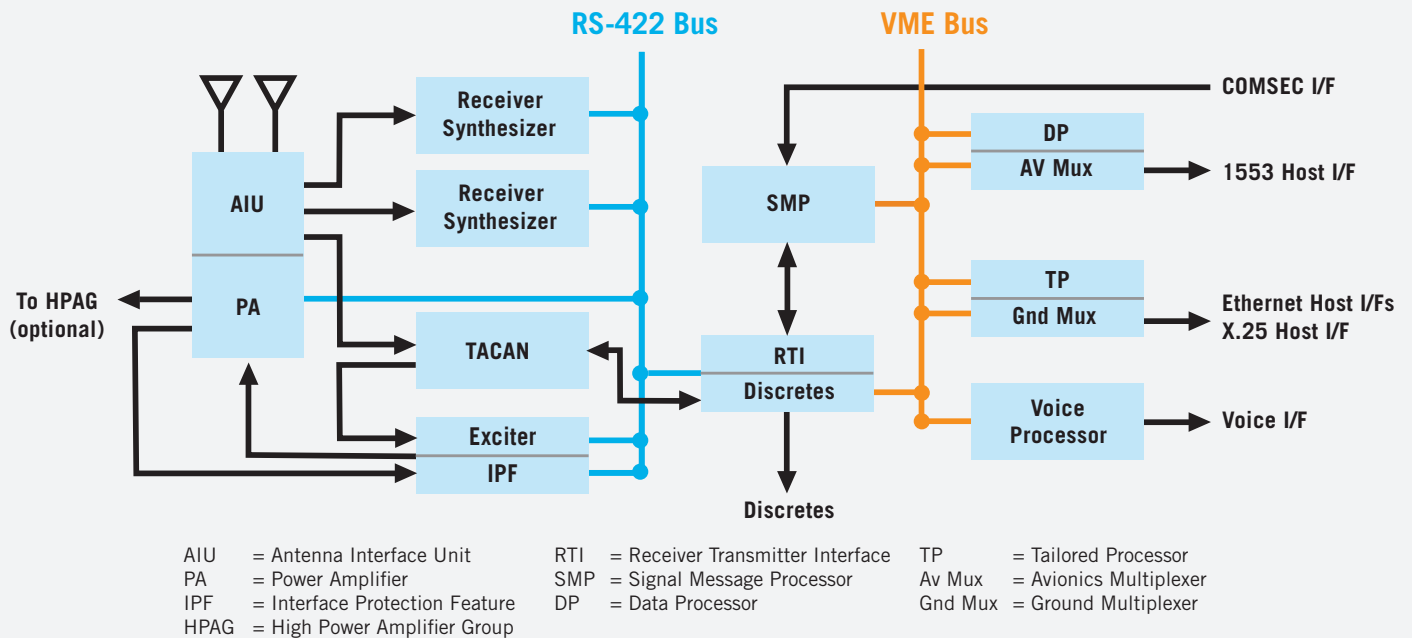
POWER AND COOLING

- » Power Source Alternatives 115 VAC (400 Hz) 3 Phase or ± 140 VDC
- » Power Consumption 0% TSDF 150 Watts, 70% TSDF 350 Watts
- » Cooling External Conductive Air

OTHER CONFIGURATIONS

- » LVT(4) no TACAN
- » LVT(6) no Voice
- » LVT(7) no Voice, no TACAN

MIDS-LVT(1) CONFIGURATION



ORDERING INFORMATION MIDS-LVT

TYPE	NOMENCLATURE	VIASAT PN
LVT(1)	AN/USQ-140(V)1(C) RT-1840	VA-018100-0031
LVT(4)	AN/USQ-140(V)1(C) RT-1841	VA-018300-0031
LVT(6)	AN/USQ-140(V)1(C) RT-1842	VA-018200-0031
LVT(7)	AN/USQ-140(V)1(C) RT-1843	VA-018400-0031

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