The MIDS JTRS terminal from ViaSat combines the network-centric communications capability of tomorrow with the real-time operating picture of today — all in one unit. This four-channel software-programmable radio delivers existing Link 16 and TACAN functionality, as well as three channels for future growth, including JTRS advanced networking waveforms such as those meeting Joint Aerial Network — Tactical Edge (JAN-TE) requirements.

**MIDS JTRS**

- Form-factor identical to MIDS-LVT for reduced integration costs
- Simultaneous SCA 4-channel operation
- 4 channels with isolated security
- Software programmable for future network-centric requirements
- Full access to Link 16 real-time situational awareness and Command & Control (C2)
- Fully interoperable with MIDS-LVT and JTIDS terminals
- Crypto Modernization reprogrammable security
- Full Frequency Remap permits banded operation
- Enhanced Throughput boosts Link 16 data rate
- 4x receive capacity over MIDS-LVT while maintaining interoperability

**PLUG-AND-PLAY INSTALLATION AND INTEROPERABILITY**

The terminal’s dedicated Link 16 channel ensures full interoperability with fielded MIDS-LVT terminals and backward-compatibility with legacy communications systems to exchange tactical picture information in real-time.

By retaining the existing MIDS-LVT form factor and interfaces, the MIDS JTRS terminal facilitates integration into platforms that already host MIDS-LVT. This approach minimizes life-cycle costs by leveraging past expenditures for platform integration of Link 16 and TACAN, while providing a gateway for new JTRS and other enhanced capabilities.
MIDS JTRS

MORE CAPABILITIES FOR THE WARFIGHTER TODAY
MIDS JTRS introduces technology enhancements to supercharge the warfighter’s situational awareness and command/control capabilities in the field. The system’s Enhanced Throughput mode boosts Link 16’s protected data rate of 115 Kbps to over 1 Mbps with MIDS JTRS. Frequency Remapping (freeing users from Frequency Clearance requirements) is also supported, enabling the warfighter to use banded Link 16 to avoid interference with other systems. With Crypto Modernization, this terminal implements new encryption algorithms through a programmable crypto to securely serve joint and coalition mission requirements.

MORE CAPABILITIES FOR THE WARFIGHTER TOMORROW
MIDS JTRS will soon introduce the capability for the terminal to receive multiple messages in the same timeslot, increasing the receive capacity of the terminal by four times that of a legacy Link 16 terminal. Messages using four different net numbers in Concurrent Multi-Net (CMN-4) can be received from different Network Participation Groups so the warfighter can view four zones of surveillance, for example. The operator also gets much faster updates when multiple messages are received in Concurrent Contention Receive (CCR) from users at different ranges, allowing for faster fighter-to-fighter update rates or PPLIs without impact to the overall network capacity. (Scheduled to be available in 2015.)

IP NETWORKING OVER ADVANCED WAVEFORMS TO THE COCKPIT
With three universal channels available, ViaSat’s MIDS JTRS terminal is ready for legacy as well as the next generation of IP-based tactical networking. The terminal’s reprogrammable transceivers can support current legacy waveforms, such as SINCGARS and HAVE QUICK to provide greater interoperability between forces. The terminal architecture is designed to accommodate advanced transceivers for newer waveforms to deliver greater network capacity and much lower latency for sensor and processing sharing.

ORDERING INFORMATION
MIDS JTRS TERMINAL SET
VIASAT PART NO. 1086190-0102

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