

GROUND POWER ADAPTATION, CONTROL AND COOLING SYSTEM (GPACC)

Enabling MIDS JTRS Ground Capability

After years of researching the most effective way to meet the needs of the warfighter, MIDS-LVT(2)/(11) users now have a viable path to MIDS JTRS with L3Harris Ground Power Adaptation, Control and Cooling (GPACC) system. The GPACC is an all-in-one, form-fit replacement that adapts a MIDS JTRS Radio Terminal Set (RTS) to operate in a traditional MIDS-LVT(2)/(11) installation—no terminal updates, extra parts or additional space needed for the MIDS JTRS (5).

PRODUCT DESCRIPTION

Thanks to the GPACC, LVT(2)/(11) users can now replace their legacy terminals with a four-channel, software-defined MIDS JTRS radio and be poised to benefit from ongoing and future MIDS JTRS capabilities, including Four Net Concurrent Multi-Netting (CMN-4) and Concurrent Contention Reception (CCR) capability, crypto modernization, frequency remap and enhanced throughput.

What's more, the GPACC offers far more in capability than the MIDS-LVT(2)/11. The GPACC can support multiple waveforms running simultaneously with intelligent cooling and an intuitive web interface. Additionally, the integrated Host Ethernet Auxiliary Request Translator (HEART) translates between a MIDS JTRS terminal from existing vendors and legacy hosts including, but not limited to, Platform-J. Ground users can take advantage of the multi-reception capable MIDS JTRS CMN-4 for enhanced network monitoring through plug-and-play compatibility with existing Link 16 network monitoring software, such as ARMS.



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Increased Capability for MIDS JTRS RTS

KEY FEATURES

- > Compatible with MIDS JTRS from existing vendors and hosts
- > Complete form-fit replacement for LVT(2)/(11), no modifications or extra parts required
- > Built-in translation to support legacy ground platforms (ex. Platform J)
- > Intelligent cooling system for the MIDS JTRS Terminal
- > Interoperable with modernized Link 16 networks
- > CMN-4/CCR capable
- > Intuitive web interface control for local voice capability, zeroize capability, power control, discrete control and terminal status monitoring
- > Field serviceable
- > Removeable and washable filter for easy maintenance
- > AC and DC input power configurations available
- > Transit case available upon request (sold separately)
- > Patented

SPECIFICATIONS

PERFORMANCE

- > Frequency Range: 960 to 1215 MHz Link 16 (MIDS JTRS)
- > Transmission Modes: Link 16 TDMA, TACAN concurrent operations. Expandability for additional waveforms (MIDS JTRS).
- > Antenna Ports: Link 16 port A, 50 Ω Type "N"
Link 16 port B, 50 Ω Type "HN"
- > Data Interfaces: Ethernet Port (Host, Support Port)
Human Machine Interface Guard (HMIG)
Standard Circular 6-Pin Audio Connector on front panel for Link 16 J-Voice (compatible with most headsets/handsets)
- > Discrete Interfaces:
 - On, Off, Standby Power Control
 - Voice (including A/B Selection and Push-to-Talk (PTT))
 - Zeroize
 - IOIDENT (via Web GUI)
 - RT Address
 - Fail Status
 - LTTI
- > Terminal Status Indicators:
 - Fail Decode
 - Voice A/B
 - GPACC Status (Power, Cooling, Control)
- > Input: **AC:** 90-265 VAC 50/60/400 Hz
Single Phase
DC: 18-33 VDC
- > Power Draw: **AC:** 150 W Standby 500-1000 W
Average (Application Dependent)
1725 W Peak
- > Dimensions: 13.031" (w) x 8.391" (h) x 20.096" (d)
33.099 cm (w) x 21.313 cm (h) x
51.044 cm (d)
- > Weight: GPACC: 45.1 pounds (20.4 kg)
GPACC w/RTS: 102.2 pounds (46.35 kg)
- > Range: Clear line-of-sight transmission range in excess of up to 200 nautical miles (MIDS JTRS)
- > RF Power Output: 1 W, 25 W, or 200 W (MIDS JTRS)
- > L-Band: Link 16 data and voice including enhanced throughput modes
- > Accessories: (Includes all cables required to interface between the MIDS JTRS and GPACC)
 - MIDS JTRS RT J7 [Control, Discretes, Fail Decodes]
 - MIDS JTRS RT J2, J3 [Channel 1 Host, Voice, 1553]
 - MIDS JTRS PS J1 [Converted Prime Power]
 - MIDS JTRS PS J2 to MIDS JTRS RT J12 [Inter-LRU Power]
 - MIDS JTRS PS J4 to MIDS JTRS RT J5 [Inter-LRU Power]
 - MIDS JTRS RT J16 to RJ-45 Ethernet [External Host Control Bus / HMI]

ENVIRONMENTAL

- > Operating Temperature: -40 °C to +50 °C (-40 °F to +122 °F)
*Max temperature dependent on TSDF. See system specification for details at various TSDFs.
- > Storage Temperature: -40 °C to +50 °C (-40 °F to +122 °F)
- > Vibration: Designed to meet MIL-STD-810H, Method 514.8, Procedure I, Category 20, Composite Wheeled Vehicle (CWV)

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