

GPACC

Ground Power Adaptation, Control, and Cooling System

Connect ground and air platforms and gain CMN-4/CCR capability—No terminal changes required.

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 Viasat's 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).

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 most 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.



GPACC At-a-Glance

- › Compatible with MIDS JTRS from most existing vendors and host
- › 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)
- › PATENT PENDING
- › **PN: 1352717 GPACC (AC) Power Variant**
- › **PN: 1411144 GPACC (DC) Power Variant**

GPACC

Ground Power Adaptation, Control, and Cooling System

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 (HMI)) Standard Circular 6 Pin Audio Connector on front panel for Link 16 J-Voice (compatible with most headsets/handsets)
Discrete Interfaces	<ul style="list-style-type: none">› 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	<ul style="list-style-type: none">› Fail Decode› Voice A/B› GPACC Status (Power, Cooling, Control)
Input	AC: 90-265 V AC 50/60/400 Hz Single Phase DC: 18-33VDC
Power Draw	AC: 150W Standby 500-1000W Average (Application Dependent) 1725W Peak DC: TBD
Dimensions (WxHxD)	13.031 in. x 8.391 in. x 20.096 in. (33.099 cm. x 21.313 cm. x 51.044 cm.)

Weight

RTS: 102.2 pounds (46.35kg)
WITH GPACC: 45.1 pounds (20.4kg)
GPACC w/RTS: 102.2 pounds (46.35kg)

Range

Clear line-of-sight transmission range in excess of up to 200 nautical miles (MIDS JTRS)

RF Power Output

1W, 25W, or 200W (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, Discrettes, 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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