

# REMBASS-II FPU

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## VENDOR DESCRIPTION

The REMBASS-II Field Processor Unit (FPU) is a multi-functional processing and communications relay device that supplements the REMBASS-II unattended ground sensor system.

The FPU is a rugged piece of military equipment designed to operate on battery power for extended periods in harsh environments. The FPU provides the following functions:

- A flexible long-haul communications interface
- Sensor field management
- Additional data processing in the field



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Business Category: Large Business

CDR

Hardware		
Power: 4 watts	Cooling: Ambient air	Bandwidth Required: 1200-64K bps
Weight: 11.5 lbs	Operating Altitude: 0 ft to 15,000 AGL	TCDL Compatibility: No
Rec/Trans Weight: 2.0 lbs	Operating Speed: N/A	
Antenna Weight: 3.25 lbs	Operating Temp.: 0°C to 55°C	
Processor Weight: 9.5 lbs	Storage Temp.: -40°C to 80°C	
Internal Volume: 0.232 ft <sup>3</sup>	Interface: RS-232	

Performance	
BLOS for TOC-to-TOC radios of the Tactical Internet: No	# of TOC-to-TOC nets using TOC-to-TOC radios: N/A
BLOS for JTRS-compliant waveforms: No	# of JTRS compliant waveforms: N/A
Supports any combination of voice or data networks: No	Relay for HS LOS trunk radios at X.X to X.X Mbs: N/A
Capable of cross-banding between radios/waveforms: No	# of simultaneous sensor fields: 10
Capable of paging services: No	# of back single-channel UHF Sat Comm relays: 1
Capable of cross-linking between multiple UAVs: No	Capable of Link 16 nets at on time: No
Capable of cross-banding between CRP-D components: No	Capable of CDMA wireless telephone services: No
Beyond line-of-sight (BLOS) relay for EPLRS of the Tactical Internet: No	
Remote control of the payload via an on-board comms manager controller: Yes, via interconnected ground-based units	
Capable of integration into the WIN-T Network Management System: Yes	
Capable of integration into the Joint Network Management System (JNMS): No	
Capable of completing 99.99% of the missions it starts without experiencing a mission abort: TBD	