MESHnet®

Network Access Unit

V4 Product Family

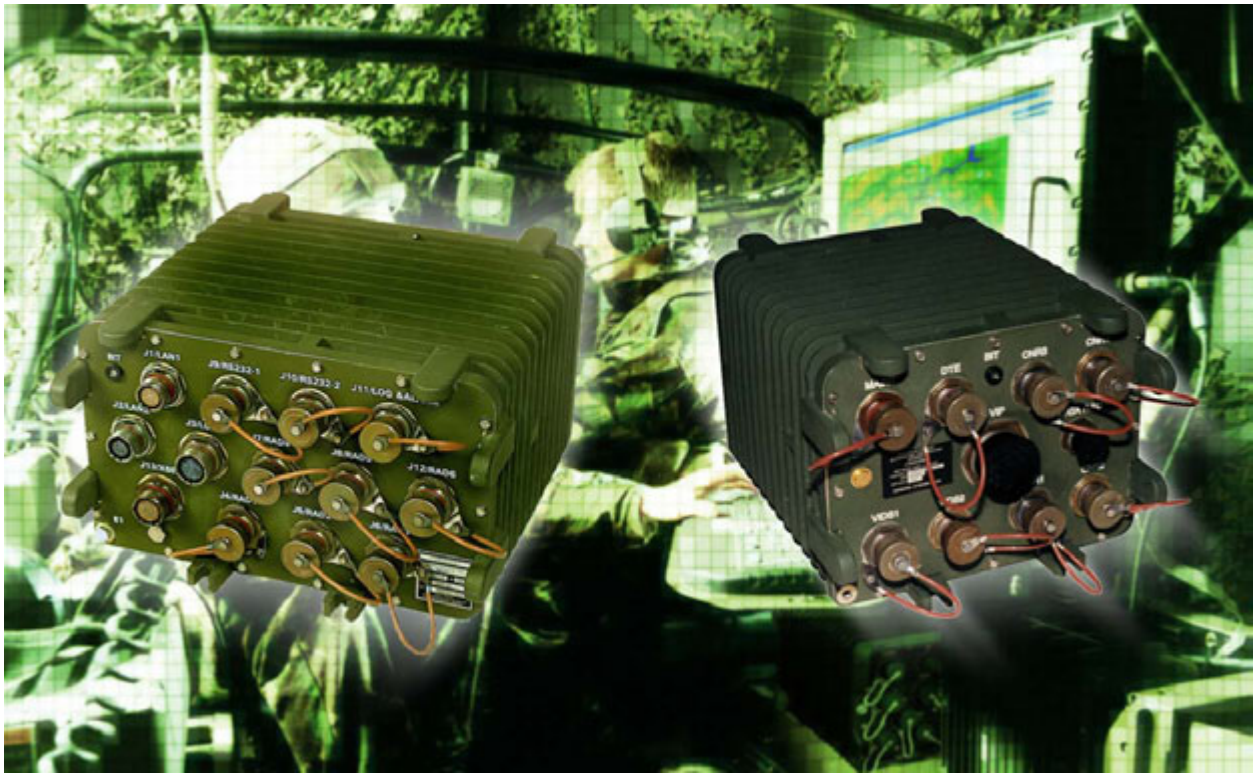
The **MESHnet Network Access Unit (NAU)** is a high speed Internet Protocol switch/router at the heart of the digital intercom and data network, and acts as a node for inter-vehicle connection.

The NAU can operate in a stand-alone or networked manner to provide access to local and remote intercom, radio, telephone services and Ethernet IP networks. For the fault tolerant network communications, the NAU provides both an internal dual ring intercom and external inter-vehicle mesh connections.

Features:

- Vehicle-based intercom circuits
- Radio access, audio, data, remote control
- Telephone circuits
- Programmable alarms
- Embedded 11 port 10/100 BaseT Ethernet Switch/OSPF router
- DHCP server
- Power filtering and distribution to local UCDs
- Supports mesh, star, ring, daisy chain interconnection
- SNMP and web-based network management

Radio Interfaces:
Generic analog and serial radio interface supporting SINCGARS, PSC-5, PRC-117, Harris RF-5800, ITT ADR+, Kongsberg MRR MV300, and other radios. Ethernet interfaces for ITT HCDR and Raytheon EPLRS.



GENERAL DYNAMICS
Canada

Technical Specifications:

Interfaces:	NAU 9-2	NAU 5-2	NAU 5-3
Intercom ports	2		
Combat Net Radio (CNR) Ports	4	6	7
Ethernet 10/100 BaseT connections	8		
Maintenance port host	1		
Signal Entry Panel (SEP) port	1		
- Inter-vehicle connections	3		
- Remote UCD connections	2		
- DTMF ports	1	3	4
- Alarm ports	5		
Gateway port (optional) - H.323 VoIP	*	1	1
IDM/MSE port (optional) MIL-STD 188-220 CNR data or 4-wire digital gateway	1		

Physical Characteristics:

Height	7.36 in (187 mm)	
Width	9.69 in (246 mm)	12.08 in (307 mm)
Depth	11.82 in (300.5 mm)	
Weight	<22 pounds (10 kg)	<30.8 lbs (14 kg)

Reliability:

Mean Time Between Failure (MTBF)	>5000 hrs	>3000 hrs
Mean Time To Repair (MTTR)	<30 min	

* Requires separate VoIP Gateway Unit

Input Power Requirements:

- 24 to 32 VDC (QSTAG 307/MIL-STD 1275B)
- 80 Watts

Display (LED):

Built-in Test/power status

Environmental Characteristics (MIL-STD 810D)

- -40°C to +63°C (-40°F to +145°F) operating
- -51°C to +71°C (-60°F to +160°F) storage
- Vibration, transit drop, salt fog, sand and dust, rain, fluid contamination, immersion, NBC decontamination, fungus, altitude

Electromagnetic Effects:

MIL-STD 461E, ESD, TREE, TEMPEST

Related Products:

- MESHnet User Control Device
- MESHnet Electro-Optic Module

For more information, please contact:
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