



GE Aerospace

VNetS-2240

Versatile Network Switch

Next generation, state-of-the-art, ruggedized avionics Ethernet switch unit designed for safety critical applications when determinism matters

Flexible Network Configurations

- Switching core fabric provides a superset of switch functionality to support the widest possible range of customer applications
- Deterministic or non-deterministic network protocols - ARINC 664 Deterministic Ethernet, TTE (Time Triggered Ethernet), best effort Ethernet
- Ethernet ports able to support various bandwidth needs

Critical Network Functionality Inherent to Design

- Configuration for up to 16 different vehicle locations in single unit
- Can be configured to support multiple protocols simultaneously
- Includes extensive traffic policing, segregation, and priority mechanisms to support the highest system safety levels
- Capable of supporting multiple virtual LANs for ability to employ separate domains

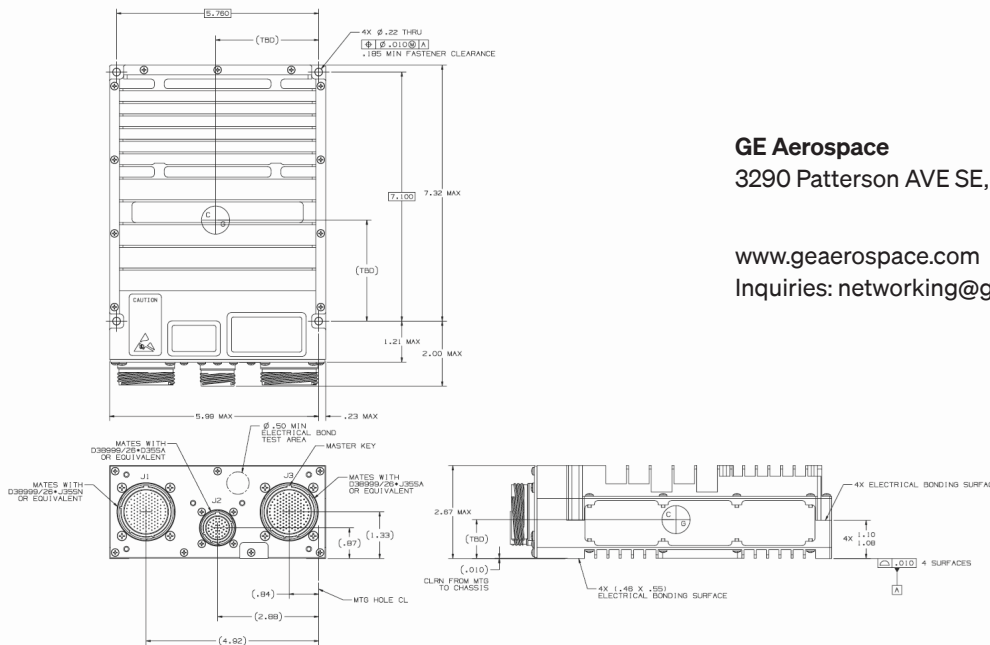


Installation Ready

- Lightweight and ruggedized unit is mountable directly to airframe structure
- Uses MIL-STD-38999 circular connectors
- Passively cooled chassis does not require direct cooling
- Reliable operations in high vibration environments
- Can support certification to Design Assurance Level (DAL) A for DO-254 and DO-178C

Configuration Simplified

- Extensive toolset for configuration of the switch
- Delivered in pre-configured state or user configured during integration



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Specifications

Physical Characteristics

8.5 × 6.2 × 2.7 inches

4.4 lbs

Reliability

BIT >95%

MTBF (@ 50°C estimated): 40,000 hours

MTBF (@ 30°C estimated): 137,000 hours

Baseline Configuration

6x 10/100/1000 ports, 18x 10/100 ports

- 10BASE-T, 100BASE-TX, 1000BASE-T

5x open/ground position inputs

1x open/ground parity input

1x unit status open/ground output

Dual 28V DC power inputs

- 18 watts
- 110 mS transient protection

Controller Software

- BIT >95%
- ARINC 615A-3 data loader
- SNMP MIB access

Chassis Details

3x MIL-STD-38999 connectors

Direct mount to airframe

Operating Environment

Temperature: -45°C to +70°C

Qualified to civil and military environmental conditions

Interface Signal Characteristics

Discrete output O/G: 40 mA

Discrete input O/G: >1M/<1.3K Ohm

Test signal Interfaces

Discretes: 3.3 voltage level

RS-232C: Maintenance

Protocol Support

802.1D multi-port MAC Ethernet bridging

802.1Q Virtual Local Area Network (VLAN) support

ARINC 664 part 7 deterministic Ethernet

IPv4 deterministic Ethernet forwarding

Frame-based & byte-based policing

SAE AS6802 Time-Triggered Ethernet

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