

# VS8

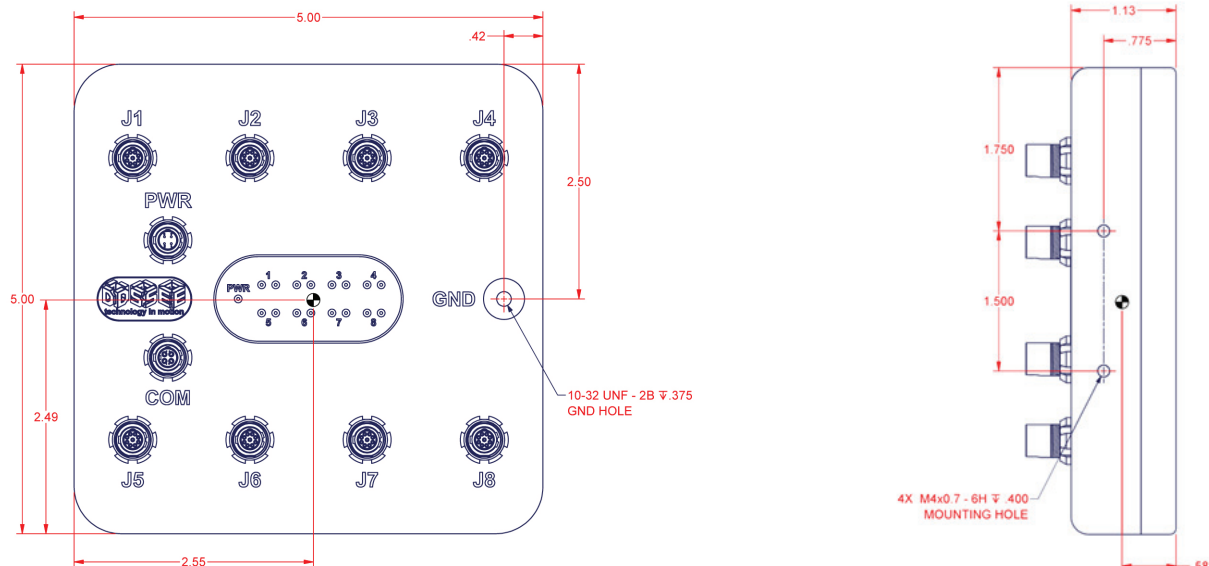
## GIGABIT ETHERNET SWITCH



The VS8 is a managed eight (8) port Gigabit Ethernet Switch designed for harsh environments that demand systems with scaled down footprints, reduced power consumption and weight constraints. The micro circular connectors provide an easy and cost effective solution for connection with network ports, RS-232 and web GUI management access, and a wide range DC voltage input. Specified for military platforms such as ground vehicles, aircraft, and unmanned vehicles, the featherweight compact VS8 delivers a powerful feature package capable of securely managing a complex GbE network under all environmental conditions specified in MIL-STDs-461, 704, 810, 1275 and DO-160. This SWaP enhanced L2 switch distributes data with carrier grade features such as IPv4/IPv6 multicast traffic routing between virtual LANS, RSTP, and MSTP support, QoS user priority, link aggregation, input priority mapping, port control, and authentication per 802.1, Web/CLI, and ACLs. With a fully sealed enclosure, the VS8 is a perfect solution for environments subject to temperature extremes, dust, water, shock, and vibration.

### STANDARD FEATURES

- (8) Port Gigabit Ethernet Ports, RS-232 and Power
- MIPS CPU with DDR-2 Memory
- DMA-based Frame Extraction, Performance Monitoring, Ethernet OAM
- IPv4/IPv6 Multicast, QoS Prioritization, Link Aggregation (Static and LACP), QCL, Port VLAN (Static), Port Isolation (Static), IGMPv2 Snooping, Loop Guard, RSTP, STP
- Management - Web Interface, RS-232, API, HTTP, Syslog, SNMPv3, CLI, DHCP Client
- Port Indicator LEDs
- Designed to MIL-STD-461, 704, 810, 1275 and DO-160





Technical Specifications			
System I/O		(8) GbE Ethernet Ports, RS-232, Power	
Housing		Milled Aluminum, Black Hard Anodized	
Mount Option		M4 Mount	
DC Power Input†		28 VDC (18-33 VDC) (per MIL-STD-704, 1275)	
Power Conditioning		Protected against Internal Short Circuit, Load Dump, Over Voltage and Reverse Polarity	
Environmental Specifications			
IP Rating		IP67 (NEMA 6 Submersible)	
Operating Temperature		-40°C to 71°C (-40°F to 160°F)	
Storage Temperature		-54°C to 71°C (-65°F to 160°F)	
Humidity		0-100%	
Altitude		45,000 ft.	
Military Specifications			
MIL-STD-461	EMI	MIL-STD-810	Method 511; Explosive Atmosphere
MIL-STD-704	Aircraft Power Requirements	MIL-STD-810	Method 512; Immersion
MIL-STD-810	Method 500; Altitude	MIL-STD-810	Method 513; Acceleration
MIL-STD-810	Method 501; I & II; High Temperature	MIL-STD-810	Method 514; Procedure I, II, V, VI; General Vibration
MIL-STD-810	Method 502; I & II; Low Temperature	MIL-STD-810	Method 516; Procedure I, Functional Shock
MIL-STD-810	Method 503; Temperature Shock	MIL-STD-810	Method 520; Temp, Humidity, Vibe and Altitude
MIL-STD-810	Method 506; Rain	MIL-STD-1275	Vehicle Power Requirements
MIL-STD-810	Method 507; Humidity	MIL-STD-1472	Thermal Contact Hazard
MIL-STD-810	Method 508; Fungus	DO-160	Section 17 Voltage Spike; Section 22 Lightning Transient; Section 25, Electrostatic Discharge
MIL-STD-810	Method 509; Salt/Fog		
MIL-STD-810	Method 510; Blowing Sand and Dust	MIL-A-8625	Standard Finish, Type III (Class 1 & 2)

\* - Please note cables are not included.

† - The power range specified covers momentary environmental fluctuations generally found in a mobile environment while display is operating. For power initialization and continual operation, nominal voltages are required.

ON-GOING PRODUCT DEVELOPMENT MAY NECESSITATE DESIGN AND SPECIFICATION CHANGES WITHOUT NOTICE.