

RJSMLAC8MGCAPSVAC-NAV1

Managed military Ethernet switch, RJFTV connectors - 8 Gigabit ports NAVY approved - Fully MIL-STD compliant



Description

Amphenol's RJSMLAC8MGCAPSVAC-NAV1 is a MIL-STD Fully managed Military-grade network switch offering 8 triple speed (10/100/1000) ports. This model has been tested and approved per NAVY MIL standard.

Designed to withstand the harshest naval or ground environment, the RJSMLAC8MGCAPSVAC-NAV1 features mechanical packaging enhancements. The unit has been especially hardened to improve water ingress, impact, and shock/vibration protection, as well as eliminate all moving parts through passive cooling. Ethernet connectors are MIL-DTL-38999 RJFTV, with RJField patented system that allows easy and quick assembly of any standard RJ45 cordset without any tool.

Leveraging best-in-class switching technology, the RJSMLAC8MGCAPSVAC-NAV1 serves as a robust solution for providing local area network (LAN) connectivity to IP-enabled computing and net-centric devices in space-constrained naval, and ground vehicle environments.

NAVY APPROVED

MIL-S-901D, Lighweight shock MIL-STD-167-1A, Low frequencies vibrations MIL-F-18870-E, Operating temperature

Main features

ETHERNET PORTS

- Managed 8 x switched 10/100/1000 ports on RJFTV connectors

NETWORKING

- Spanning tree (802.1d), RSTP (802.1w) and multiple
- Spanning tree (802.1S) for fast recovery rings
- Security via Radius Authentication 802.1x, port security, port mirroring
- Multicasting (IGMP Snooping), GARP, GMRP, and GVRP, Broadcasting and flooding control up to 8K groups.
- 802.1q tagged based VLAN up to 4K VLAN groups.
- QoS multi-layer classifier, 802.1p, ToS/DSCP traffic classification. WFQ, Strict Queuing.
- Bridge support for Q-in-Q
- Link aggregation 802.3AD.
- WEB, CLI, Telnet management.
- L3 static routing*
- Rmirror*
- Port Protection: 1+1 port protection, 1:1 port protection, 1:N port protection*
- G.8032 ring protection*
- DHCP option 82 relay*
- L2CP tunnelling*
- Protocol-based VLAN*
- 1588v2 PTP with two-step clock*

CONNECTORS

- Power connector type: MIL-DTL-38999/24WA98PA
- LAN connector type: RJFTV (coupling mechanism from MIL-DTL-38999)
- LED indication per port (speed, link/activity)

CHASSIS

- Low profile rugged aluminium extrusion
- Conductively cooled w/custom internal heat-sinks
- Ingress protection against sand, dust and moisture
- Polyurethane Paint, Per MIL-C-83286 type II, matt texture :
 - Color green FS24084

STANDARDS

- MIL-STD-1275, MIL-STD-704A, MIL-STD-461E/F
- MIL-STD-810F GM, IP67/68
- MIL-S-901D

VOLTAGE OPERATION

- 90-265VAC / 47-65Hz
- NOTE: DC model (18-32VDC) also available

Markets & Applications



Battlefield communication C4ISR Data acquisition & transmission



(*) new!

Combat Vehicles

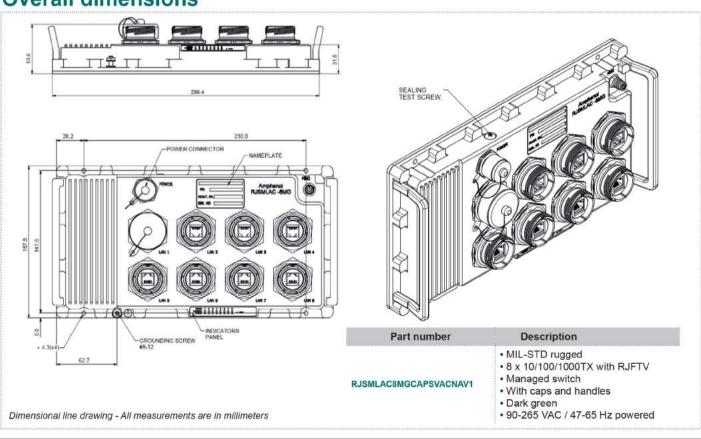


RJSMLAC8MGCAPSVAC-NAV1

Product specifications

Voltage operation	 VAC model: 90-265 VAC / 47-65 Hz powered
Performance	 26.8 Mpps wire speed forwarding rate 20 Gbps maximum forwarding bandwidth 8K MAC address
Standards compliance	 IEEE 802.1x MAC based authentication IEEE 802.1Q Vlan tagging IEEE 802.1P QoS IEEE 802.1S Multiple STP IEEE 802.1W Rapid STP IEEE 802.3AD Link aggregation
Power	 Exceed MIL-STD-1275B surge and spike protection Power consumption: 7W typical Chassis grounding
Electromagnetic	 MIL-STD-461E electromagnetic compatibility CE102, CS114, CS115, CS116, RE102, RS103 MIL-STD-461F RE101, RS101
Environmental : shock/vibration/ humidity	 MIL-S-901D, Lighweight shock MIL-STD-167-1A, Low frequencies vibrations MIL-F-18870-E, Operating temperature MIL-STD-810F, 501.4I, 501.4II, 502.4I, 502.4II, 507.4, 500.4II, 514, 516I, 516VI, 514.5, 512.4 IP67/68
Physical	 Dimensions: 287mm(L) x 147(W) x 50(H), including connectors & hardware Weight: 1.8 kg
Installation	 Set of four 4.5 mounting holes on bottom for mounting to any flat surface. Carrying handles
Cooling	No moving parts. Passive cooling.
Operating temp	• -40°C to +70°C (-40°F to +158°F) / -35°C Cold start-up
Storage temp	• -45°C to +85°C (-49°F to +185°F)

Overall dimensions



Stocked and Distributed by:

