

NEW

RESMLAC-8MG-CAPS-F35

Managed military Ethernet switch, MIL-DTL-38999 connectors 8 Gigabit ports

Military ethernet switch for harsh environment - Fully MIL-STD-compliant

Amphenol's RESMLAC 8MG CAPS F35 is a MIL-STD fully managed Military-grade network switch offering 8 triple speed (10/100/1000) ports.

Developed for military and harsh avionic applications, the RESMLAC 8MG CAPS F35 features mechanical packaging enhancements designed for MIL-STD-810F airborne and ground environmental compliance and high reliability. The unit has been especially hardened to improve ingress, impact, and shock/vibration protection, as well as eliminate all moving parts through passive cooling, and interface through sealed MIL-DTL-38999 circular connectors.

Leveraging best-in-class switching technology from Amphenol, the RESMLAC 8MG CAPS F35 serves as a robust COTS solution for providing local area network (LAN) connectivity to IP-enabled computing and net-centric devices. Compact in size, the RESMLAC 8MG CAPS F35 is particularly useful for expanding port density to tactical IP routers in space-constrained airborne and ground vehicle environments.

Military applications

- Data acquisition & transmission
- Battlefield communication C4ISR
- Rugged Networks
- Mobile communications
- Combat vehicles
- Avionic & shipboard systems

Key features

■ Ethernet ports

- Managed 8 x switched 10/100/1000 ports

■ 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.

■ Connectors

- Power connector type: MIL-DTL-38999/24WB35PN
- LAN connector type: MIL-D-38999/24WF35PN
- 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
- Anodize coating, MIL-A-8625, Type II, Class 2

■ Standards

- MIL-STD-1275B, MIL-STD-704A, MIL-STD-461A,
- MIL-STD-810F GM, IP67/68

■ Voltage operation

- Nominal 24VDC



Product specifications

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
- Voltage input: 24Vdc nominal (18-32V)
- Power consumption : 7W typical
- Chassis grounding

Electromagnetic

- Exceed MIL-STD-461A electromagnetic compatibility
- RE-02, RS-03

Environmental : shock/vibration/humidity

- MIL-STD-810F, 501.4I, 501.4II, 502.4I, 502.4II, 507.4, 500.4II, 514, 516I, 516VI, 514.5, 512.4

Physical

- Dimensions: 209.6mm(L) x 136(W) x 44.4(H), including connectors
- Weight: 1.1 kg

Installation

- Set of four #10-32 captive screws for mounting to any flat surface

Cooling

- No moving parts. Passive cooling.

Operating temp

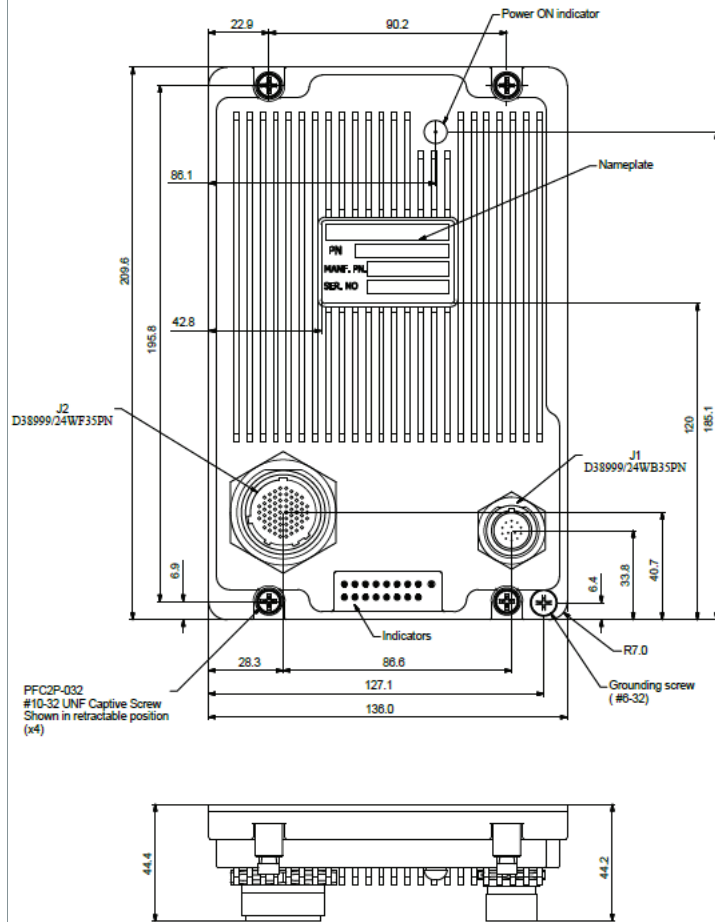
- -35°C to +75°C (-31°F to +167°F) / -35°C Cold start-up

Storage temp

- -45°C to +85°C (-49°F to +185°F)

Dimensional line drawing

All measurements are in millimeters



Part number	Description
RESMLAC 8MG CAPS F35	<ul style="list-style-type: none"> • Managed military grade Gigabit switch • 8 x 10/100/1000TX

► For accessories, please consult us.