

RESMLAC-8MG-CAPS-F35 - Managed Gigabit Ethernet Switch, MIL-DTL-38999 connectors

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

Description

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.



Ethernet Switch & Media Converter

Military Ethernet Switch for Harsh Environment

Military Ethernet Switch for Harsh Environment with Industrial EMI Compliance

Main 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-DTL-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
- Polyurethane Paint, Per MIL-C-83286 type II, semi-gloss

STANDARDS

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

VOLTAGE OPERATION

- Nominal 24VDC (18VDC - 32VDC)

MILITARY RUGGED SWITCH

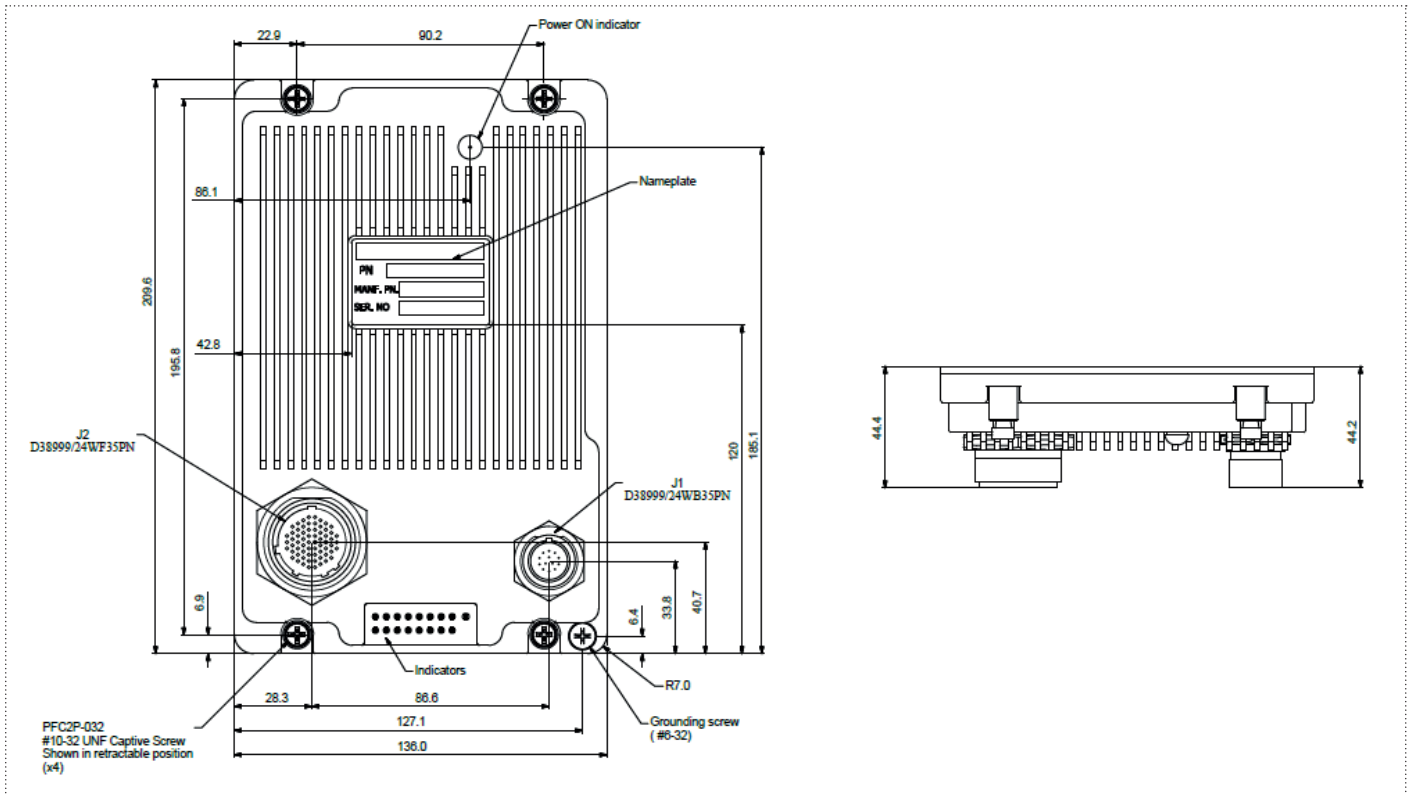
MIL-STD-1275
MIL-STD-704A
MIL-STD-461E
MIL-STD-810F/GM
IP67

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Product specifications

Performance	<ul style="list-style-type: none"> 26.8 Mpps wire speed forwarding rate 20 Gbps maximum forwarding bandwidth 8K MAC address
Standards compliance	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Exceed MIL-STD-1275B surge and spike protection Voltage input: 24Vdc nominal (18-32V) Power consumption: 7W typical Chassis grounding
Electromagnetic	<ul style="list-style-type: none"> MIL-STD-461E electromagnetic compatibility CE-102, CS-114, CS-115, CS-116, RE-102, RS-103
Environmental	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Dimensions: 269mm(L) x 133(W) x 79(H), including connectors & hardware Weight: 1.5 kg
Installation	<ul style="list-style-type: none"> Set of four 4.5 mounting holes on bottom for mounting to any flat surface. Carrying handles
Cooling	<ul style="list-style-type: none"> No moving parts. Passive cooling.
Operating temp	<ul style="list-style-type: none"> -35°C to +75°C (-31°F to +167°F) / -35°C Cold start-up
Storage temp	<ul style="list-style-type: none"> -45°C to +85°C (-49°F to +185°F)

Overall dimension



Dimensional line drawing - All measurements are in millimeters

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How to order

Part number	Description
Ethernet switches Part number	
RESMLAC-8MG-CAPS-F35-CD	MIL-STD Rugged Managed Ethernet switch with 8 ports 10/100/1000TX, M38999 connectors, cadmium plated connectors, powered with 18-32VDC, with attached metallic caps
RESMLAC-8MG-CAPS-F35-ZN	MIL-STD Rugged Managed Ethernet switch with 8 ports 10/100/1000TX, M38999 connectors, Black Zinc Nickel plated connectors, powered with 18-32VDC, with attached metallic caps ✓
RESMLAC-8MG-CAPS-F35-NI	MIL-STD Rugged Managed Ethernet switch with 8 ports 10/100/1000TX, M38999 connectors, Nickel plated connectors, powered with 18-32VDC, with attached metallic caps ✓
Cable assemblies Part number	
RESMLAC-8MG-F35-CBL-PWR-2M-B4	Power cordset for RESMLAC-8MG-CAPS-F35, 1 side with TV06RW1135S, 1 side with 4mm plugs for power supply, cable 2m long (DC voltage option)
RESMLAC-8MG-F35-CBL-ETH-RJ45-2M	LAN cordset for RESMLAC-8MG-CAPS-F35, 1 side with TV06RW1935S, 1 side with RJ45 civilian, cable RJFSFTP5E cat 5E, 2m long (valid for all options)
RESMLAC-8MG-F35-CBL-MNG-1M	Management cable for RESMLAC-8MG-CAPS, 1 side with TV06RW1935S, 1 side with DB9, 1m long (valid for all options)

For specific cable harnesses, please consult us.