RESMLAC-8MG-CAPS
Managed military Ethernet switch, MIL-DTL-38999 connectors
8 Gigabit ports
Military ethernet switch for harsh environment - Fully MIL-STD-compliant

NEW

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

Developed for military and harsh environment applications, the RESMLAC-8MG-CAPS 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 serves as a robust solution for providing local area network (LAN) connectivity to IP-enabled computing and net-centric devices. Compact in size, the RESMLAC-8MG-CAPS is particularly useful for expanding port density in space-constrained airborne and ground vehicle environments.
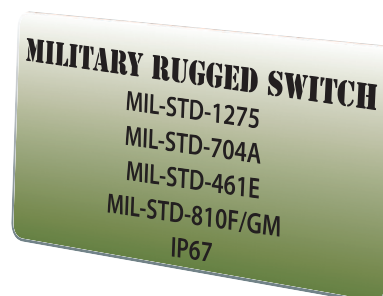
Military applications
- Data acquisition & transmission
- Battlefield communication C4ISR
- Rugged Networks
- Mobile communications
- Combat vehicles
- Avionic & shipboard systems

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-38999/24WA98PA
- LAN connector type: MIL-D-38999/24WB35SN
- 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-1275, MIL-STD-704A, MIL-STD-461E,
- MIL-STD-810F GM, IP67/68

■ Voltage operation
- 24VDC (18VDC ~ 32VDC)

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

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
- MIL-STD-461E electromagnetic compatibility
- CE-102, CS-114, CS-115, CS-116, RE-102, RS-103

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
- IP67/68

Physical
- Dimensions: 269mm(L) x 133(W) x 79(H), including connectors & hardware
- Weight: 1.5 kg

Installation
- Set of four 4.5 mounting holes on bottom for mounting to any flat surface.
- Carrying handles

Cooling
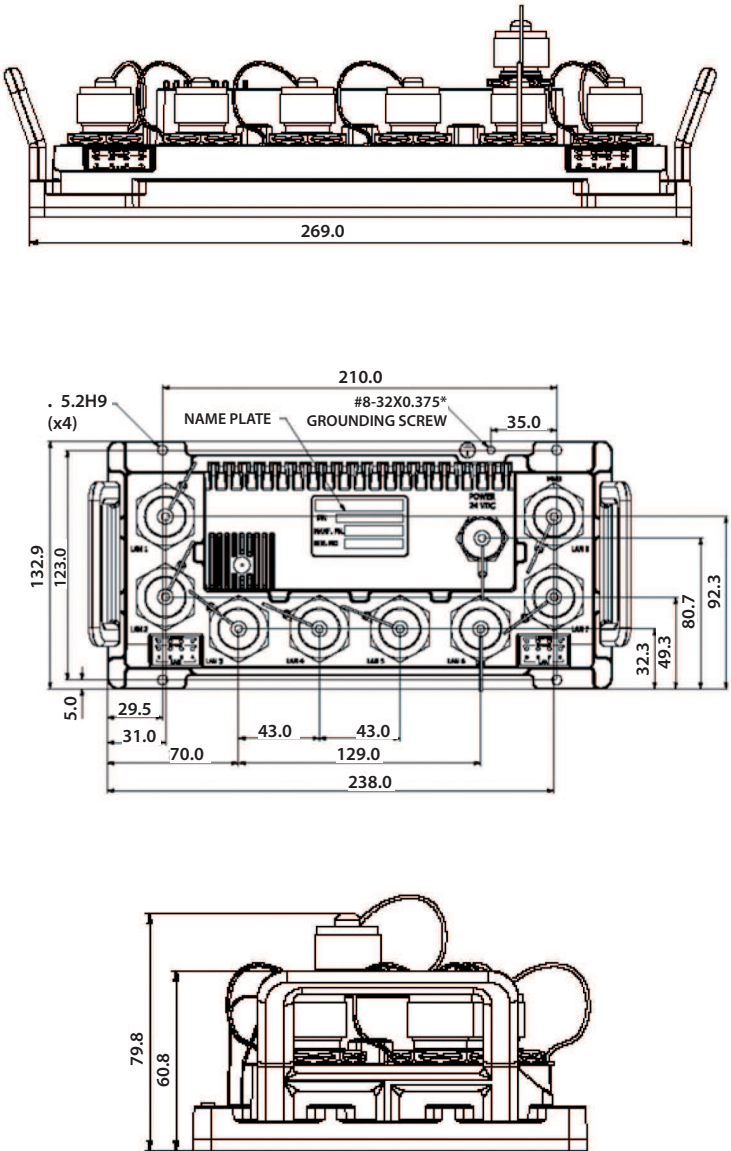- No moving parts. Passive cooling.

Operating temp
- -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	RESMLAC 8MG CAPS	Description
	RESMLAC 8MG CAPS	• MIL-STD Rugged • 8 x 10/100/1000TX • Managed switch • with caps and handles • dark green
	RESMLAC 8MG CBL 1M50	• Starter cable set for RESMLAC • MIL-D-38999 to RJ-45 connectors • 1m50 (5 feet) length

▶**For accessories, please consult us.**

Amphenol