

NEW

# Military Ethernet Switch for harsh environment Fully MIL-STD compliant

RESMLAC-8US: Unmanaged Military Ethernet Switch, MIL-DTL-38999 connectors - 8 Fast ports

Amphenol's RESMLAC-8US is a MIL-STD rugged, Unmanaged-military-grade Ethernet switch, offering 8 Fast Ethernet 10/100 Ports.

Developed for military and harsh environment applications, the RESMLAC 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-D-38999 circular connectors.

Leveraging best-in-class switching technology, the RESMLAC 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 is particularly useful for expanding port density in space-constrained airborne and ground vehicle environments.

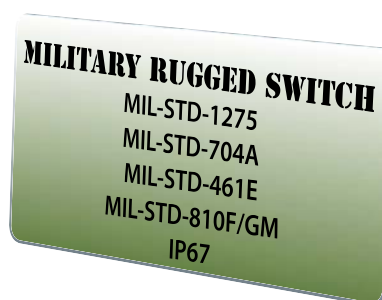
## Military applications

- Data Acquisition & Transmission
- Battlefield communication C4ISR
- Rugged Networks
- Mobile communications
- Combat vehicles
- Avionic & Shipboard systems



## Key Features

- **Ethernet Ports**
  - 8 x switched 10/100 (Fast Ethernet) ports
- **Networking**
  - Full wire-speed forwarding rate
  - Store-and-forward mechanism
  - Auto MDI-II, MDI-X
  - Auto-negotiation protocol
  - Address look-up
- **Connectors**
  - MIL-D-38999 (Power & Ethernet signals)
  - Power connector type: D38999/24WA98PA
  - LAN connector type: D38999/24WA35SN
- **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
- **Voltage operation**
  - 24VDC (18VDC ~ 36VDC)



## Product specifications

### Performance

- 128K byte of SRAM for frame buffering
- 2.0 Gbps high-performance memory bandwidth
- 2 LED indication (speed, link/activity) per port
- Wire-speed reception and transmission
- Integrated address look-up engine
- Automatic address learning

### Standards compliance

- IEEE 802.3 10 Mbps 10BASE-T (Ethernet)
- IEEE 802.3u 100BASE-TX 100 Mbps (Fast Ethernet)
- IEEE 802.3x flow control

### Power

- MIL-STD-1275B & MIL-STD 704A surge and spike protection
- Voltage input: 24Vdc nominal (18-32V)
- Power consumption: 2.8W typical
- Chassis grounding

### Electromagnetic

- MIL-STD-461E electromagnetic compatibility
- RE-02, RS-03

### Environmental

- MIL-STD-810F, 501.4I, 501.4II, 502.4I, 502.4II, 507.4, 500.4II, 514, 516I, 516VI, 514.5, 512.4
- IP67

### Physical

- Dimensions: 269mm(L) x 133(W) x 65(H), including connectors & hardware

### Installation

- Set of four 4x4.5 mounting holes on bottom for mounting to any flat surface.

### Cooling

- No moving parts. Passive cooling.

### Operating temp

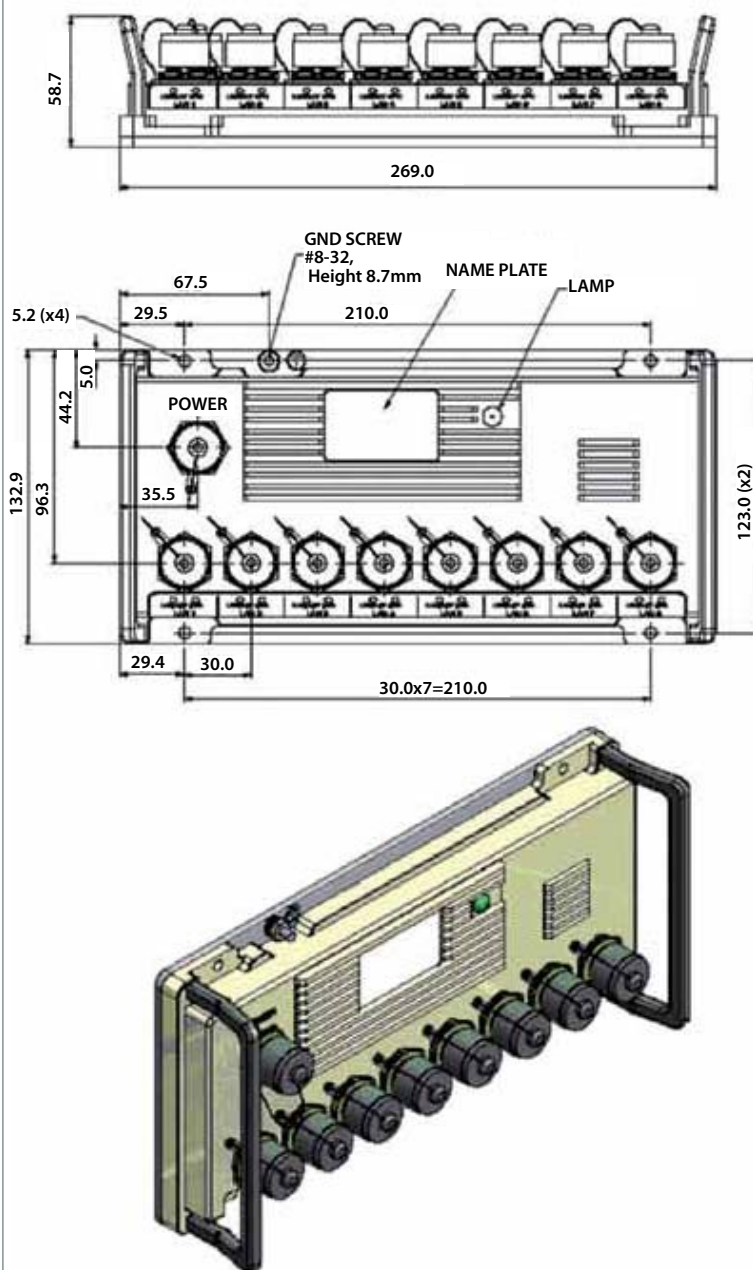
- -35°C to +75°C (-31°F to +167°F) - Cold start-up

### Storage temp

- -45°C to +85°C (-49°F to +185°F)

## Dimensional Line Drawing

All measurements are in millimeters



Part number	Description	
	RESMLAC 8US CAPS	<ul style="list-style-type: none"> <li>• MIL-STD Rugged</li> <li>• 8 x 10/100TX</li> <li>• Unmanaged switch</li> <li>• with caps</li> </ul>
	RESMLAC 8US CBL 1M50	<ul style="list-style-type: none"> <li>• Starter cable set for RESMLAC</li> <li>• MIL-D-38999 to RJ-45 connectors</li> <li>• 1m50 (5 feet) length</li> </ul>
	RESMLAC HND	<ul style="list-style-type: none"> <li>• Carrying handles kit for RESMLAC 8US CAPS switch</li> </ul>