

NEW

# RJSMLAC-8UG-CAPS

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

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

Amphenol's RESMLAC-8UG-CAPS is a MIL-STD rugged, unmanaged-military-grade Ethernet switch, offering 8 triple speed Ethernet (10/100/1000) ports. Ethernet connectors are RJFTV, using RJField patented system that allows easy and quick assembly of any standard RJ45 cordset without any tool.

Developed for military and harsh environment applications, the RJSMLAC 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.

Leveraging best-in-class switching technology, the RJSMLAC serves as a robust solution for providing local area network (LAN) connectivity to IP-enabled computing and net-centric devices. Compact in size, the RJSMLAC 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 10/100/1000 (Gigabit Ethernet) ports on RJFTV connectors
- **Networking**
  - Full wire-speed forwarding rate
  - Store-and-forward mechanism
  - Auto MDI-II, MDI-X
  - Auto-negotiation protocol
  - Address look-up
- **Connectors**
  - Power connector type: MIL-DTL-38999/24WA98PN
  - 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
  - Finish of epoxy-polyamide paint per MIL-C-83286, olive green, semi-gloss
- **Standards**
  - MIL-STD-1275, MIL-STD-704A, MIL-STD-461E, MIL-STD-810F GM, IP67/68
- **Voltage operation**
  - 24VDC (18VDC ~ 36VDC)

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

## 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 10BASE-T (Ethernet)
- IEEE 802.3u 100BASE-T (Fast Ethernet)
- IEEE 802.3ab 1000BASE-T (Gigabit 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
- CE-102, CS-114, CS-115, CS-116, RE-102, RS-103

### Environmental

- 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 65(H), including connectors & hardware
- Weight: 1.8kg

### Installation

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

### Cooling

- No moving parts. Passive cooling.

### Operating temp

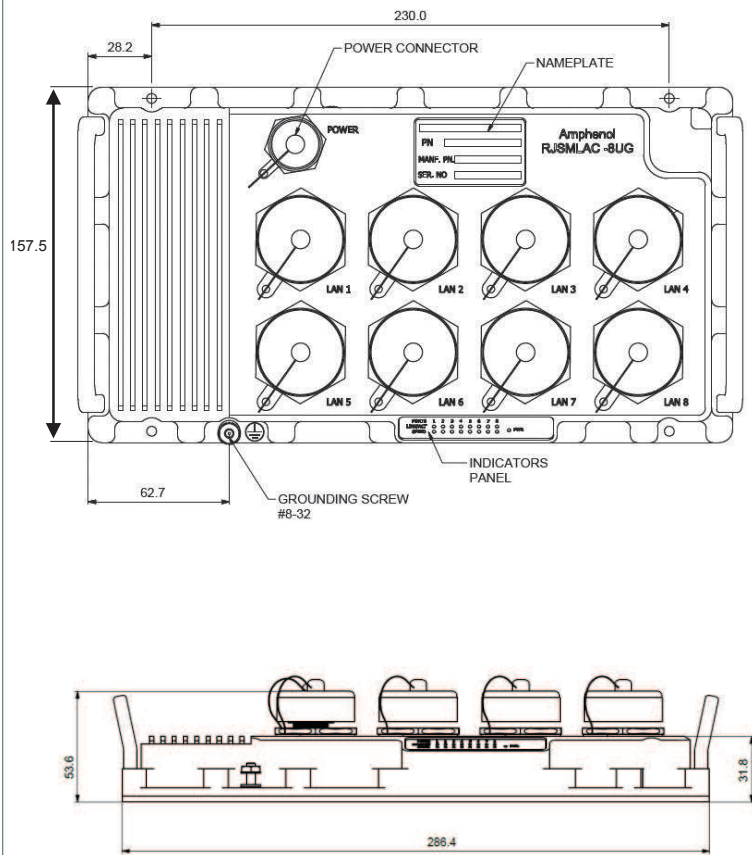
- -35°C to +75°C (-31°F to +167°F) / -35°C Cold start-up

### Storage temp

- -45°C to +85°C (-49°F to +185°F)

## Dimensional line drawing

All measurements are in millimeters



Part number	Description
RJSMLAC 8UG CAPS	<ul style="list-style-type: none"> <li>• MIL-STD rugged</li> <li>• 8 x gigabit ports</li> <li>• Unmanaged switch with caps and handles</li> <li>• dark green</li> </ul>

► [For accessories, please consult us.](#)