

RJSMLAC-8UG-CAPS - Unmanaged military Ethernet switch, RJFTV D38999 connectors - 8 Gigabit ports

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

Description

Amphenol's RJSMLAC-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.

Main 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-38999/24WA98PA
- 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
- Polyurethane paint per MIL-C-83286 type II, matt texture, color:
 - Green FS24084

STANDARDS

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

VOLTAGE OPERATION

- 24VDC (18VDC – 32VDC)
- VAC models: 90-265VAC/47-65Hz

MILITARY RUGGED SWITCH

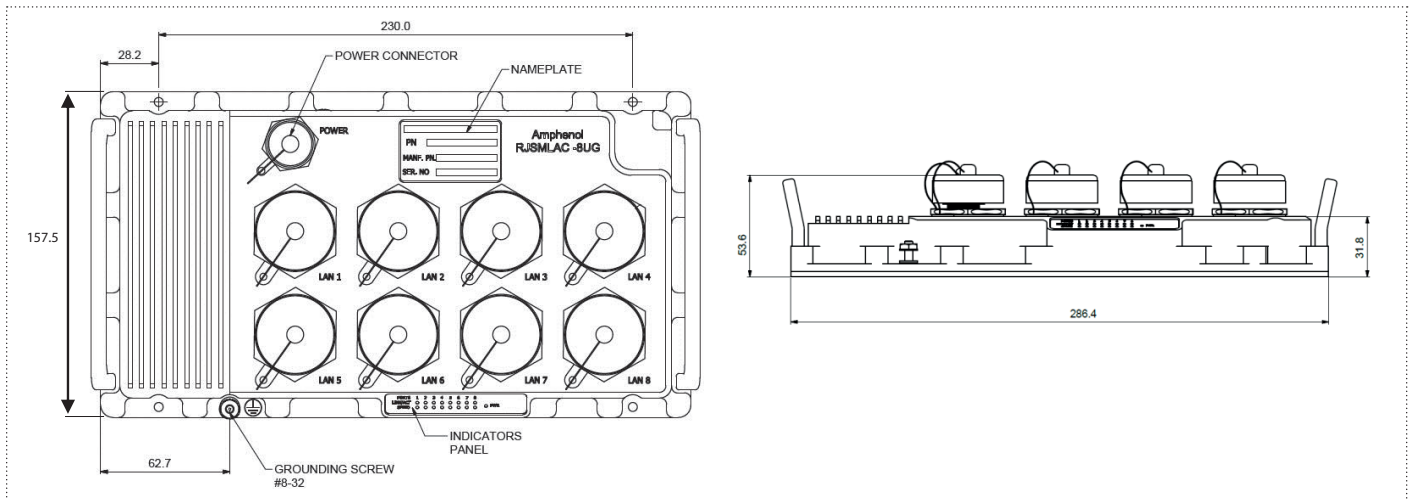
MIL-STD-1275
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IP67

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Product specifications

Performance	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> MIL-STD-1275B & MIL-STD 704A 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 65(H), including connectors & hardware Weight: 1.8kg
Installation	<ul style="list-style-type: none"> Set of four 4x4.5 mounting holes on bottom for mounting to any flat surface
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



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How to order

Part number	Description
Ethernet switches Part number	
RJSMLAC-8UG-CAPS-CD-DC	MIL-STD Rugged Managed Ethernet switch with 8 ports 10/100/1000TX, cadmium plated connectors, powered with 18-32VDC, with attached metallic caps
RJSMLAC-8UG-CAPS-ZN-DC	MIL-STD Rugged Managed Ethernet switch with 8 ports 10/100/1000TX, Black Zinc Nickel plated connectors, powered with 18-32VDC, with attached metallic caps ✓
RJSMLAC-8UG-CAPS-NI-DC	MIL-STD Rugged Managed Ethernet switch with 8 ports 10/100/1000TX, Nickel plated connectors, powered with 18-32VDC, with attached metallic caps ✓
RJSMLAC-8UG-CAPS-CD-VAC	MIL-STD Rugged Managed Ethernet switch with 8 ports 10/100/1000TX, cadmium plated connectors, powered with 90-265 VAC / 47-65 Hz, with attached metallic caps
RJSMLAC-8UG-CAPS-ZN-VAC	MIL-STD Rugged Managed Ethernet switch with 8 ports 10/100/1000TX, Black Zinc Nickel plated connectors, powered with 90-265 VAC / 47-65 Hz, with attached metallic caps ✓
RJSMLAC-8UG-CAPS-NI-VAC	MIL-STD Rugged Managed Ethernet switch with 8 ports 10/100/1000TX, Nickel plated connectors, powered with 90-265 VAC / 47-65 Hz, with attached metallic caps ✓
Cable assemblies Part number	
RJSMLAC-8MG-CBL-PWR-2M-B4	Power cordset for RJSMLAC-8UG-CAPS, 1 side with TV06RW0998SA, 1 side with 4mm plugs for power supply, cable 2m long (DC voltage option)
RJSMLAC-8MG-CBL-PWR-2M-EU	Power cordset for RJSMLAC-8UG-CAPS-VAC, 1 side with TV06RW0998SA, 1 side with European outlet plug, cable 2m long (AC voltage option)
RJSMLAC-8MG-CBL-PWR-2M-US	Power cordset for RJSMLAC-8UG-CAPS-VAC, 1 side with TV06RW0998SA, 1 side with North American outlet plug, cable 2m long (AC voltage option)
RJSMLAC-8MG-CBL-ETH-RJ45-2M	LAN cordset for RJSMLAC-8UG-CAPS, valid for LAN 1 to 8, 1 side with RJFTV6MG plug, 1 side with RJ45 civilian, cable RJFSFTP5E cat 5E, 2m long (valid for all options)

For specific cable harnesses, please consult us.