RES-SCE-8MG
Managed miniature portable Ethernet switch - 8 Gigabit ports
Military ethernet switch for harsh environment - Fully MIL-STD compliant

Amphenol's RES-SCE-8MG is a MIL-STD rugged, managed-military-grade Ethernet switch, offering 8 Gigabit Ethernet 10/100/1000 Ports. The portable rugged Ethernet switch is intended for Command Post Man Packable.

Developed for mobile portable military and harsh environment applications, the RES-SCE-8MG 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 miniature circular connectors.
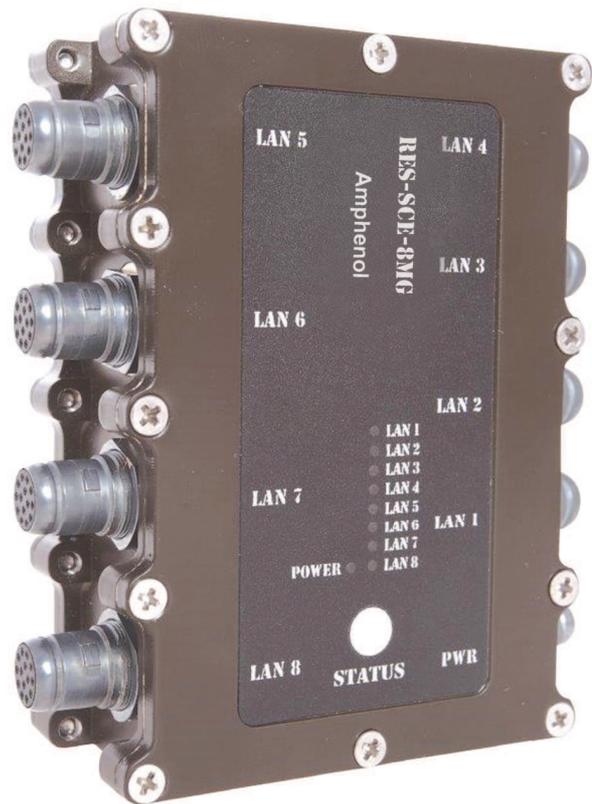
Leveraging best-in-class switching technology, the RES-SCE-8MG serves as a robust solution for providing local area network (LAN) connectivity to IP-enabled computing and net-centric devices. Compact in size, the RES-SCE-8MG is particularly useful for expanding port density in space-constrained airborne 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: SCE2-B-76A06-07SN
  - LAN connector type: SCE2-B-76A07-14SN-001
  - 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
- **Performance**
  - 26.8 Mpps wire speed forwarding rate
  - 20 Gbps maximum forwarding bandwidth
  - 8K MAC address

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

Amphenol

Product specifications

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 802.3 AD Link Aggregation

Power
- Exceed MIL-STD-1275B Surge and Spike protection
- Voltage Input: 24Vdc Nominal (16-36 VDC)
- Power Consumption: 7.2W Max - 5W 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/G/GM
- Random vibration (514.5I), Bench handling (516.6VI), High temp (501.5I, II), Low temp (502.5I), Humidity (507.5II), Air pressure (500.5I, II), Blowing rain (506.5I), Immersion (512.5I), Salt atmosphere (509.5I), Blowing dust (510.5I), Loose cargo vibration (514.6II), Wind analysis
- IP67/68

Physical
- Dimensions: 100mm (L) x 89 (W) x 36 (H), including connectors & hardware.
- Weight: 390g

Installation
- Set of Four 4-40 threads on bottom for mounting to any flat surface

Cooling
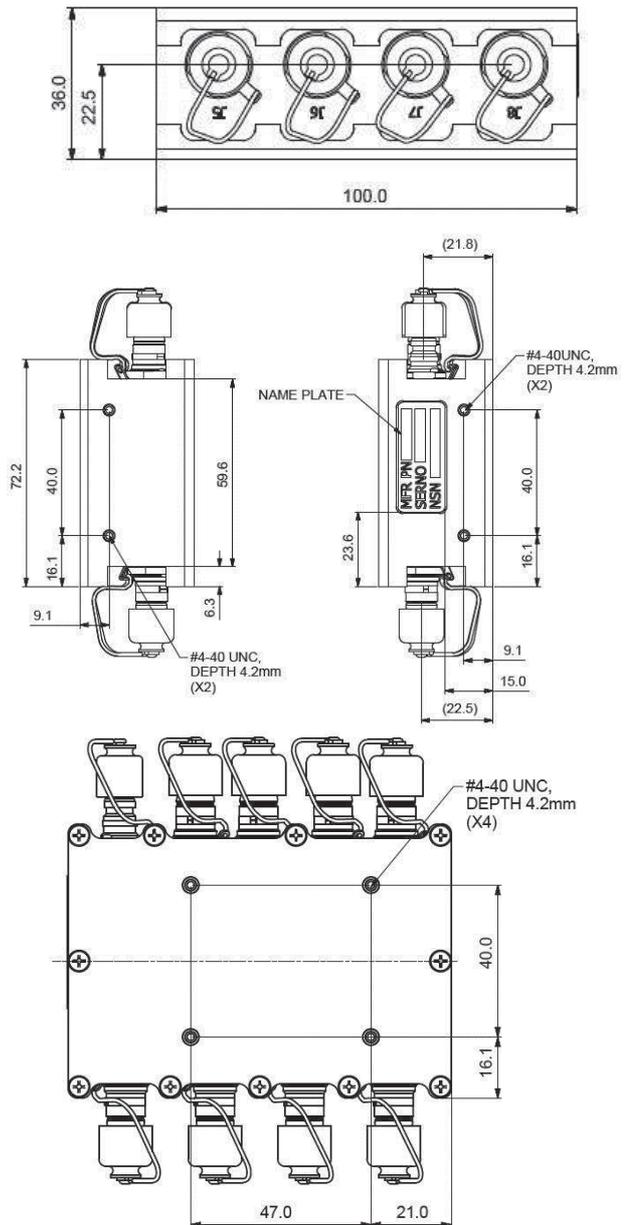- No moving parts. Passive cooling.

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
	RES-SCE-8MG	• MIL-STD Rugged • Managed miniature switch • 8 x 10/100/1000TX • With caps
	RES-SCE-8MG-CBL-ETH-RJ45-2M	• Ethernet cordset for LAN 1 to 8 • With RJFSFTP5E cable • RJ45 end plug • 2 m long

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

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