



- Supports IEEE 802.1x RADIUS Authentication
- Limit network bandwidth with built-in Bandwidth Provisioning
- Quality of Service (QoS) based on IEEE802.1p Values and Class of Service (CoS)
- Supports IGMP Snooping and Query Modes
- Wired speed non-blocking architecture
- Gigabit Fiber Uplink Port

The MIL-SME801G switch is MiLAN's latest achievement of Layer 2+ management switches designed specifically for enterprise or campus types of applications. Tailor from 2 different factory configured fiber uplinks to precisely match your network needs—today and in the future.

- Depending on your network infrastructure, the SME801G's 1000Mbps Fiber port can be factory configured to have Multimode fiber port (up to 550m), or a Singlemode fiber port that supports up to 10km fiber connection connecting at blazing fast 2000Mbps.
- Secure your network with built-in IEEE802.1X Authentication through a centralized RADIUS server.
- Deploy and manage multimedia services (voice, video, audio, and data) throughout your network with multi-service technologies: IP multicast with IGMP, multiple priority queues, and 256 VLANs.
- Manage your network bandwidth with MiLAN's per-port Bandwidth Provisioning and rate metering. This advanced software feature is ideal for sophisticated measured Ethernet service, including multi-tenant unit (MTU) installations.

Additionally, the MIL-SME801G switch is designed on the next generation networking ASIC architecture that sports a 3.6 Gbps non-blocking backplane speed to assure rapid packet delivery, while its robust 8000 MAC address table provides swift address lookup and packet forwarding. Choose telnet, SNMP or web browser interfaces over in-band Ethernet or out-of-band serial communications.

FEATURES AND BENEFITS

Single-Chip Layer 2+ ASIC	Supports L2+ functionalities include IEEE802.1x, DHCP Client, Bandwidth Provisioning, and Secure VLAN
Switching Architecture:	3.6 Gbps switch fabric (per unit) eliminates blocking and latency Embedded RISC processor to handle advanced features Runs cooler and more reliably than older, multi-chip designs
Flexible Deployment Platform:	Factory-configure the switches for your network with 2 available fiber uplink ports. Run single/multimode fiber at 1000 Mbps (1000BaseSX/LX) up to 10km.
DHCP Client Support	Simplify deployment with built-in DHCP Client support which the switch will automatically acquires an IP address for easy configuration.
Advanced Network Security:	Enhance network security through built-in IEEE802.1X EAP Authentication support when using with an existing RADIUS server
Simplified Network Management:	Choose in-band or out-of-band management tools: Console, telnet, SNMP or web browser
Bandwidth Provisioning:	Manage network bandwidth by shaping traffic according to 8 levels of IEEE 802.1p Quality of service (QoS) Consolidate different types of network traffic through Class of service (CoS) with 2-level priority queuing ideal for delivering multi-tenant unit (MTU/MDU) service over metro and regional Ethernet.
Multi-Services for Multimedia:	Multiple priority queues ensure mission critical applications get the bandwidth and priority they need; Throughput is maintained—even under heavy traffic conditions. Internet group management protocol (IGMP) optimizes multicast bandwidth by allowing multicast traffic only to registered users; minimizes denial of service attacks from unknown sources.
Virtual LANs:	Logically organize nodes up to 256 VLAN groups compliant with IEEE 802.1Q with VLAN Tagging Overlapping VLANs are ideal for sharing and segmenting traffic and security GARP VLAN Registration Protocol (GVRP) dynamically creates and manages VLANs on 802.1Q trunks. Prunes unnecessary broadcast/unicast traffic and automatically configures compatible GVRP switches.
Total Cost of Ownership:	Flexible, customizable factory configuration lowers acquisition cost for an enterprise-grade, workgroup switch with comprehensive 5-year product warranty.

SPECIFICATIONS

Connectors:

MIL-SME801G
8-Port Fast Ethernet with Auto-MDI/MDIX (100BaseTX, 10BaseT): RJ-45
1-1000Mbps fiber uplink: SC connectors, singlemode or Multimode
Console: Serial (RS-232): DB9

Status Indicators:

Separate link-activity, speed (10/100) and duplex (full or half) LEDs for each port; system power

Management Features

Graphical User Interface: HTML browser-based with password protection for local and remote management
Command Line Interface: Menu-driven telnet or out-of-band via rear panel console port
Front Panel: Graphical representation of unit with real-time network and port status
Port Status: Display current per-port configuration showing speed, flow-control, bandwidth status and port security status
Port Statistics: Displays link, type and state of each port including RX/TX/Error for each port and unit. Table view also shows current, peak average and total packets for each port.
Switch Setting: Configure the switch according to network management requirements including QoS, CoS, broadcast storm filtering mode, and IEEE802.1X protocol mode.
Port Controls: Configure the state (enabled, disabled), link status (up, down) and mode (speed, duplex); auto negotiation, flow control, priority and bandwidth limits.
Trunking: Set up IEEE802.3ad port trunking with flexible load distribution, up to 4 ports per trunk group.
Forwarding and Filtering: Groom IGMP multicast traffic to specific ports with IGMP snooping and IGMP Query mode.
VLAN Configuration: Supports port or protocol based VLANs up to 256 groups. VLAN Tagging ID up to 4K with GVRP for automatic connection to other parts of the network.
Spanning Tree: Displays root bridge information, designated root, root port, root path cost, hello time, maximum age and forward delay; ports individually configurable for STP parameters (path cost, priority)
Port Mirroring: Monitor network traffic by Enable/disable Port Mirroring and select the ports for packet analysis.
SNMP Management: Separate read and write communities, and trap authentication; 4 configurable trap receivers (IP address and community)
802.1X Configuration: Set parameters for 802.1X EAP Authentication including RADIUS server IP, Shared Key, and Suplicant/Server Timeouts

Physical Characteristics

All Models: 10 x 5.25 x 1.75 inches (250 x 132 x 37.5 mm), 2.0 lbs 6 oz
Mounting: Install into a standard 19-inch rack (1 RU height) or placed on a desktop; wall-mount kit and rubber feet included, Optional rack-mount kit available for purchase

Environmental Range

Operating Temperature: 32° to 104° F (0° to 40° C)
Relative Humidity: 10% to 90% non-condensing
Power: Auto-switching, 110/240 VAC, 50/60 Hz; grounded IEC cord

Standards Compliance

IEEE: IEEE 802.1D spanning tree and bridge filters
IEEE 802.1q Quality of Service (QoS)
IEEE 802.1X EAP Authentication
IEEE 802.1p prioritization (class of service)
IEEE 802.1Q virtual LAN (VLAN) Tagging
IEEE 802.3ad link aggregation
IEEE 802.3x flow control and back pressure
IEEE 802.3z 1000BaseSX/LX over singlemode/multi-mode fiber; maximum distance 32,800 feet (10km)
IEEE 802.3u 100BaseTX over Category 5 UTP (2 pairs); maximum distance 328 feet (100 meters)
IEEE 802.3 10BaseT over Category 3 UTP (2 pairs); maximum distance 328 feet (100 meters)
IETF: RFC 1155 SMI
RFC 1215 Trap
RFC 1757 RMON
RFC 1157 SNMP
RFC 1493 Bridge MIB
RFC 1213 MIB II

Emissions & Safety:

FCC Class A, CE, UL

Technical Support and Warranty

Free technical support and advanced warranty support for 5 years. Includes free telephone support, 24-hour support via web and ftp.

ORDERING INFORMATION

Description

8-port 10/100 L2+ managed switch plus 1 Built-in 1000BaseSX Multimode Fiber Port with SC Connector (max. 550m)
8-port 10/100 L2+ managed switch plus 1 Built-in 1000BaseLX Singlemode Fiber Port with SC Connector (max. 10km)

MiLAN Part Number*

MIL-SME801GSXUS
MIL-SME801GLX-10US

* For international part numbers, please refer to the MiLAN price list.



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