

MILAN managed switch

# MIL-SM801P(xx)

## 8-port 10/100BASE-TX



The MIL-SM801P series of layer 2 managed switches provides high performance non-blocking switching. The switch has (8) 10/100 auto-MDI/MDIX ports and one fixed 100 Mbps fiber port.

Management features include port based, dynamic and static VLANs, GVRP, VLAN tagging, IGMP Snooping, port mirroring, and port security. Security includes static addressing, filtering and blocking of packets to identified MAC addresses. Two priority queues per port insure minimum delay for voice over IP or multimedia network data. Console port provides local management while Telnet and Web-based management is provided via any network device.

Non-blocking architecture assures rapid packet delivery while 8,000 MAC address table provides swift lookup and packet forwarding.

Other ASIC features that enhance performance are included such as 802.1d spanning tree, 802.3x flow control, 802.3ad link aggregation and broadcast storm control.

### Features

- ▶ Non-blocking full wire speed performance
- ▶ Store-and-forward architecture
- ▶ 10-inch design for desktop or rackmount
- ▶ Static MAC addresses for secure network
- ▶ Backpressure and flow control
- ▶ Console port on rear panel
- ▶ Conforms to IEEE 802.3, 802.3u, and 802.3x Ethernet Standards
- ▶ Automatic MDI/MDIX crossover for each 10Base-T/100Base-TX port
- ▶ LED indicators for Power, 100M, LK/ACT, FD/COL

### (8) 10/100 ports + (1) 100BASE-FX port

- ▶ 8-port 10/100BASE-TX
- ▶ Non-blocking architecture for full wire speed performance
- ▶ IEEE 802.1q VLAN tagging
- ▶ IEEE 802.1p Class of service
- ▶ Auto MDI-MDIX
- ▶ Internal Power Supply
- ▶ IGMP/GVRP
- ▶ Port Mirroring
- ▶ 8K MAC Address
- ▶ Telnet/Web-Based management
- ▶ TFTP Firmware Upgrade
- ▶ (1) 100 Mbps fiber port

### Specifications

|                              |                                                                                                                                                                                                                                                                                         |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                    | IEEE 802.3 10BASE-T 10 Mbps, Half/Full Duplex<br>IEEE 802.3u 100BASE-TX, 10/100 Mbps, Half/Full Duplex<br>IEEE 802.3x Flow control and Back-pressure<br>IEEE 802.3ad Link Aggregation<br>IEEE 802.1Q VLAN Tagging<br>IEEE 802.1p Class of service<br>IEEE 802.1d Spanning Tree Protocol |
| MAC Address Table            | 8K with Auto-learning function                                                                                                                                                                                                                                                          |
| Packet Buffer                | 2 Mbps                                                                                                                                                                                                                                                                                  |
| Backplane bandwidth          | Up to 3.8 Gbps                                                                                                                                                                                                                                                                          |
| System throughput            | 2.67M pps packet per second on full-duplex mode                                                                                                                                                                                                                                         |
| Voltage                      | 100~240 VAC                                                                                                                                                                                                                                                                             |
| Frequency                    | 50/60 HZ                                                                                                                                                                                                                                                                                |
| Power Consumption            | 17 Watts                                                                                                                                                                                                                                                                                |
| Operation Temperature        | 0° to 45°C (32° to 113°F)                                                                                                                                                                                                                                                               |
| Operation Humidity           | 10% to 90% (non-condensing)                                                                                                                                                                                                                                                             |
| Dimensions                   | <b>Width:</b> 10.0" [250 mm]<br><b>Depth:</b> 5.25" [132 mm]<br><b>Height:</b> 1.75" [37.5 mm]                                                                                                                                                                                          |
| Weight                       | 2.6 lbs [1.18 kg]                                                                                                                                                                                                                                                                       |
| Emissions & Safety           | FCC Class A, CE Mark, UL listed                                                                                                                                                                                                                                                         |
| Technical Support & Warranty | Free technical support and advanced warranty support for 5 years. Includes free telephone support, 24-hour support via web and FTP.                                                                                                                                                     |

### Ordering Information

#### MIL-SM801PST

8-port 10/100 switch plus  
(1) 100BASE-FX MM (ST)

[2 km/1.2 mi.]

#### MIL-SM801PSC

8-port 10/100 switch plus  
(1) 100BASE-FX MM (SC)

[2 km/1.2 mi.]

#### MIL-SM801PSC-15

8-port 10/100 switch plus  
(1) 100BASE-FX SM (SC)

[15 km/9.5 mi.]

#### Optional Accessories (sold separately)

#### Mounting Brackets

##### MIL-BRSM801W

Wall Mount Bracket

##### MIL-RMS801 ]

19" Rack Mount Bracket

#### ▶ Management interface:

Console port, Web-based GUI, Telnet and SNMP

#### ▶ VLANs:

Supports port based VLAN, up to 256 Groups, and Compatible IEEE 802.1Q VLAN Tagging, VLAN Tagging ID up to 4094

#### ▶ Port Mirroring:

Supports source-port-based, destination-port-based and source-destination-port mirroring

#### ▶ Spanning Tree:

Insures only one path between any two nodes on network

#### ▶ Broadcast Storm Filtering:

Only allows a percentage of port's total bandwidth before broadcast traffic is dropped

#### ▶ Scheduling schemes:

Packets can be transmitted by different priority schemes; FIFO, WRR with Enable Delay Bound, All High before Low

#### ▶ Trunking:

Supports 802.3ad port trunking with flexible load distribution with 800 Mbps aggregate bandwidth per trunk group

#### ▶ VLAN Options:

Supports VLAN tagging, 802.1Q, port based VLANs, overlapping VLANs

#### ▶ Class of Service:

Supports 802.1p Class of service with 2-level priority queuing

#### ▶ IGMP, GVRP:

IGMP support to reduce IP multicast traffic for the multimedia applications, support for Group VLAN Resolution Protocol