



MIL-S800i 8-port 10/100Mbps Switch



Overview

The MIL-S800i is designed for integrating both 10BASE-T and 100BASE-TX networking using UTP (Unshielded Twisted-Pair) cable connection. Simply plug in the networking cable and the switch will automatically detect the maximum speed of network connections to offer smooth network migrations and easy upgrades to network capacity. For easy recognition of network status and trouble-shooting, it provides a set of diagnostic LEDs, including 10Mbps, 100Mbps, Link/Activity and FDX/Col.

Features

- Embedded on-chip memory used for packet buffer and MAC address
- Supports auto-crossover (auto MDI/MDI-X) on every 10/100M RJ-45 port
- Palm-sized case with internal universal power supply
- Each port with non-blocking wire speed forwarding performance.
- Each port supports flow control and back-pressure.

HARDWARE DESCRIPTION

LED Indicators



The LED indicators provide the status of each port and connection. The functions of the LED indicators are as follows:

LED Indicators	Color	Description
Power	Green	Lit: Power On Unlit: Power Off
10/100M Speed	Green	Lit: Link at 100Mbps Unlit: Link at 10Mbps or no link
Link/Activity	Green	Lit: Good link on the port Blinking: The port is receiving/transmitting data Unlit: No Link is occurring on the port
Full-Duplex/Collision	Green	Lit: Full-duplex mode Unlit: Half-duplex mode Blinking: Data collision

Rear Panel

The rear panel contains 8 10/100Mbps RJ-45 ports and a power input socket.



MIL-S800i Rear Panel

HARDWARE INSTALLATION

1. Place MIL-S800i switch on a flat surface.
2. Connect the power cord to the switch.
3. Connect server, workstation or PC to MIL-S800i switch using standard RJ-45 ethernet cable.
4. Connect another workstation or PC to MIL-S800i switch by following the same process as described in Step 3.
5. If necessary, another hub/switch may be connected to any port of MIL-S800i switch using standard RJ-45 ethernet cable.
6. Ensure that each device is connected properly. Plug power cord into a power outlet.

“Auto-Negotiation” automatically sets the best possible bandwidth when connection is established with another network device. Each port supports Half/Full Duplex function.

The Auto-Negotiation priorities are as follows:

- A. 100Base-TX Full Duplex (200Mbps)
- B. 100Base-TX Half Duplex (100Mbps)
- C. 10Base-T Full Duplex (20Mbps)
- D. 10Base-T Half Duplex (10Mbps)

Attention:

1. The cable distance between the MIL-S800i Switch and hub/server should not exceed 100 meters.
2. Make sure the wiring is correct. In 10Mbps operation, Category 3/4/5 cable can be used for connection. To reliably operate your network at 100Mbps, you must use Category 5 cable or better Data Grade cabling.

Technical Specifications

Standard	IEEE 802.3 (Ethernet) IEEE 802.3u (Fast Ethernet) IEEE 802.3x (flow control)
Max. Bandwidth	Full Duplex 200Mbps (for 100BASE-TX), 20Mbps (for 10Base-T) Half Duplex 100Mbps (for 100BaseTX), 10Mbps (for 10BaseT)
Media Interface	Five/Eight 10/100Mbps RJ45 ports
Cabling	10BASE-T 2-pair UTP/STP Cat. 3 or higher, Up to 100m (328 ft) 100BASE-TX 2-pair UTP/STP Cat. 5 or higher. Up to 100m (328 ft)
Cable Types	UTP 100Ω, STP 150Ω; EIA/TIA 568-A, ISO/IEC 11801
Packet Forwarding Rate	10Mbps @ 14,880pps 100Mbps @ 148,810pps
MAC Address	4K entries
Packet Buffer memory	Built-in 256 Kbytes
Modes	Half and Full Duplex, auto-negotiation
Forwarding Mode	Store and Forward
Non-blocking	Yes
Flow Control (IEEE802.3x)	Half: backpressure Full: pause frame
Auto Crossover	Yes for each port
Diagnostic LEDs	Speed, Link/Active, FDX/Col
Operating Temperature	0° to 45° (32° to 113°)
Operating Humidity	10% to 90% (Non-Condensing)
Certification	FCC Class A, CE EN55022 Class B, VCCI Class B, UL, cUL
Power Supply	Input 100-240 VAC 50/60 Hz

To Contact MiLAN Technology:

For prompt response when calling for service information, have the following information ready:

- Product serial number and revision
- Date of purchase
- Vendor or place of purchase

You can reach MiLAN Technology technical support at:

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