



MIL-S8TA

8-Port 10/100/1000 BASE-T Unmanaged Switch

User Guide

Rev. A1
2006-09-25

Regulatory Approval
- FCC Class A
- UL 1950
- CSA C22.2 No. 950
- EN60950
- CE
- EN55022 Class A
- EN55024

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Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

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EN55022 (CISPR 22) - Radio Frequency Interference
EN61000-X - Electromagnetic Immunity
EN60950 (IEC950) - Product Safety

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- Date of purchase
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You can reach Transition Networks technical support at:

E-mail: support@transition.com
Telephone: +1.800.260.1312 x 200
Fax: +1.952.941.2322
Transition Networks
6475 City West Parkway
Eden Prairie, MN 55344
United States of America

Telephone: +1.800.526.9267
Fax: : +1.952.941.2322

<http://www.milan.com>
[info@ Transition.com](mailto:info@Transition.com)

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FCC STATEMENT

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Introduction

The 8-port 10/100/1000BASE-T Switch with Auto MDI/MDIX is an unmanaged multi-port Switch that can be used to build high-performance switched networks. This switch is a store-and-forward device that offers low latency for high-speed networking. The Switch is designed for the core of the network backbone computing environment to solve traffic block problems at SME (small, medium enterprise) businesses.

The 8-port 10/100/1000BASE-T Switch features a “store-and-forward” switching technology. This allows the switch to auto-learn and store source addresses in an 8K-entry MAC address table.

Features

- Conforms to IEEE 802.3, 802.3u, 802.3ab and 802.3x
- 8 Gigabit copper SOHO switch, compact size with universal internal power
- Auto-MDIX on all ports
- 16 Gbps back-plane
- N-Way Auto-Negotiation
- 8K MAC address table
- Back pressure half duplex
- Flow control full duplex
- Store-and-Forward switching architecture
- 144Kbytes memory buffer
- True non-blocking switching
- Support 8Kbytes Jumbo Frame

Package Contents

Unpack the contents of the switch and verify them against the checklist below.

- 8-port Switch
- Power Cord.
- User Guide.



8-port Switch



Power Cord



User manual

Package Content

Compare the contents of your switch package with the standard checklist above. If any item is missing or damaged, please contact your local dealer for service.

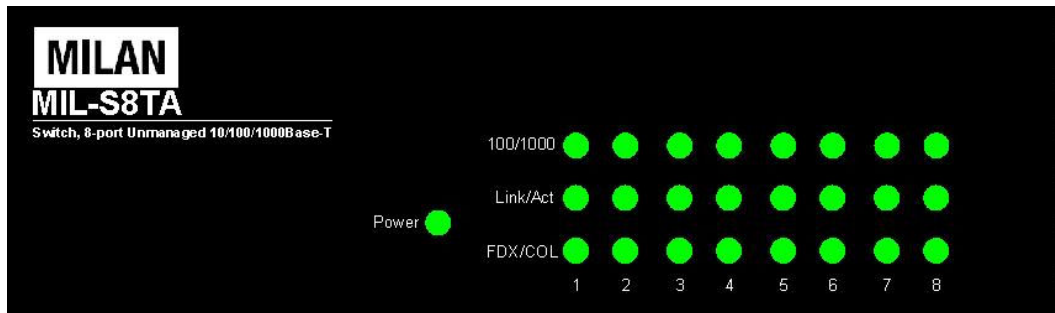
Hardware Description

Physical Dimensions

The physical dimensions of the Switch is **165mm x 100mm x 32.5 mm (L x W x H)**

Front Panel

The front panel of the 8-Port Gigabit switch consists of LED-indicators (100/1000, Link/Activity, Full duplex/Collision) for each Gigabit port and power LED-indicator for unit.



RJ-45 Ports (Auto MDI/MDIX): 8 10/100/1000 N-way auto-sensing for 10Base-T, 100Base-TX or 1000Base-T connections. (In general, **MDI** means connecting to another Hub or Switch while **MDIX** means connecting to a workstation or PC. Therefore, **Auto MDI/MDIX** allows you to connect to another Switch or workstation without changing to non-crossover or crossover cabling.)

LEDs Indicators

The LED Indicators gives real-time information of systematic operation status. The following table provides descriptions of LED status and their meaning.

LED	Status	Description
Power	Green	Power On
	Off	Power is not connected
100/1000	Green	The port is operating at the speed of 1000Mbps.
	Orange	The port is operating at the speed of 100Mbps.
	Off	No device attached or in 10Mbps mode
LNK/ACT	Green	The port is connecting with the device.
	Blinking	The port is receiving or transmitting data.
	Off	No device attached.
FDX/COL	Orange	The port is operating in Full-duplex mode.
	Blinking	Packet collision occurred on this port.
	Off	No device attached or in half-duplex mode.

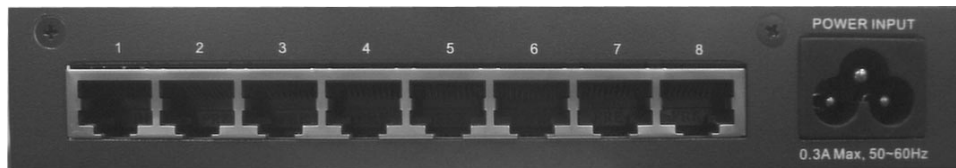
Rear Panel

The rear panel of the 8-port Gigabit Switch consists of 8 auto-negotiation 10/100/1000Mbps Ethernet RJ-45 connectors (support **Automatic**

MDI/MDIX function).

- **RJ-45 Ports (Auto MDI/MDIX):** 8 port auto-negotiation 10/100/1000 Mbps Ethernet RJ-45 connectors

[**Auto MDI/MDIX** means that you can connect to another Switch or workstation without changing non-crossover or crossover cabling.]



Installation

This section shows the installation procedures of the switch.

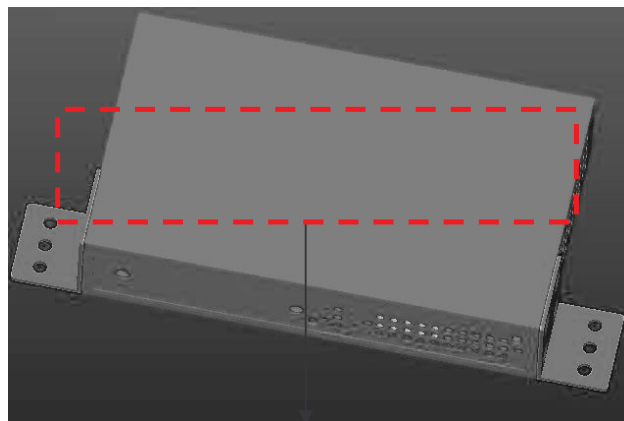
Set the Switch on a sufficiently large flat space with a power outlet nearby. The surface where you put your Switch should be clean, smooth, level, and sturdy. Make sure there is enough clearance around the Switch to allow attachment of cables, power cord and air circulation.

Attaching Rubber Feet

- A. Make sure mounting surface on the bottom of the Switch is grease and dust free.
- B. Remove adhesive backing from your Rubber Feet.
- C. Apply the Rubber Feet to each corner on the bottom of the Switch.
These footpads can prevent the Switch from shock/vibration.

Mounting on the Wall

The switch can be mounted on the wall. The switch has two wallmount brackets included in the package.



Using the cross hook hole at the bottom of the switch to mount the switch on the wall

Power On

Connect the cord of power to the power socket on the rear panel of the Switch. The other side of power cord connects to the power outlet. Check the power indicator on the upper panel to see if power is properly supplied.

Technical Specification

The following table provides the technical specification of 8-ports Gigabit Switch.

Standard	IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3x Flow Control and Back-pressure
Protocol	CSMA/CD
Technology	Store-and-Forward switching architecture
Transfer Rate	14,880 pps for 10Mbps 148,800 pps for 100Mbps 1,488,000 pps for 1000Mbps
Connector	RJ-45; Auto-MDIX on all ports
MAC Address	8K Mac address table
Memory Buffer	144Kbytes memory buffer
Jumbo frame	Supports 8Kbytes jumbo packet size
Back plane	16Gbps

Network Cable	<p>10BASE-T: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m)</p> <p>100BASE-TX: 2-pair UTP/STP CAT. 5 cable EIA/TIA-568 100-ohm (100m)</p> <p>Gigabit Copper: 4 pair UTP/STP CAT. 5 cable EIA/TIA 568 100-ohm (100M)</p>
LED	<p>Per port: 100/1000, Link/Activity, Full duplex/ Collision</p> <p>Per unit: Power</p>
Power Supply	AC 100~240V, 50/60Hz
Power Consumption (DC)	7.6 Watt (maximum)
Operation Temperature	0°C to 45 °C (32 °F to 113 °F)
Operation Humidity	10% to 90% (Non-condensing)
Dimension	165mm x 100mm x 32.5mm (L x W x H)
EMI	Compliance with FCC Class A, CE
Safety	Compliance UL, cUL, CE/EN60950