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User's Guide

TL-SG1008

8-port Gigabit Ethernet Switch

TL-SG1016

16-port Gigabit Ethernet Switch

TL-SG1024

24-port Gigabit Ethernet Switch

TL-SG1048

48-port Gigabit Ethernet Switch

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FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class

A digital device, pursuant to part 15 of the FCC Rules. These limits are

designed to pro-vide reasonable protection against harmful interference when

the equipment is operated in a commercial environment. This equipment

generates, uses, and can radiate radio frequency energy and, if not installed

and used in accordance with the instruction manual, may cause harmful

interference to radio communications. Operation of this equipment in a

residential area is likely to cause harmful interference in which case the user

will be required to correct the interference at his own expense.

CE Mark Warning



This is a class A product. In a domestic environment, this product may cause

radio interference, in which case the user may be required to take adequate measures.

SAFETY NOTICES



Cautions

Do not use this product near water, for example, in a wet basement or near a swimming pool.

Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.

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Package Contents

The following contents should be found in your box:

- One Gigabit Ethernet Switch
- One power cord
- This User's Guide
- Rubber footpads for Desk-mount
- Rack-mount kit for installing the switch in a 19-inch rack

Note: If any of the above contents is damaged or missing, please contact the retailer from whom you purchased the Gigabit Ethernet Switch for assistance.

Introduction of the Product Chapter 1

This chapter describes the features of the Gigabit Ethernet Switch.

1.1 Overview of the Product

The Gigabit Ethernet Switch provides you with a high-performance, low-cost, easy-to-use, seamless and standard upgrade to boost your old network to 1000Mbps. Increase the speed of your network server and backbone connections make Gigabit a reality. Power users in the home, office, workgroup or creative production environment can now move large, bandwidth-intensive files faster. Transfer graphics, CGI, CAD, or multimedia files and other applications that have to move large files across the network almost instantly.

The Gigabit Ethernet Switch features a non-blocking switching architecture that forwards and filters packets at full wire-speed for maximum throughput. It is compatible with all 10,100, and 1000Mbps Ethernet devices because it is standard-based, it protects your existing network investments while providing you with a straightforward migration path to faster Gigabit speeds.

The Gigabit Ethernet Switch is plug-and-play and no configuration is required. Auto MDI/MDI-X cable detection on all ports eliminate the need for crossover cable or Uplink port. Each port can be used as general ports or Uplink ports, and any port can be simply plugged into a server, a hub, a router or a switch, using the straight cable or crossover cable. Diagnostic LEDs which display link status and activity, allowing you to quickly detect and correct problems on the network.

1.2 **Features**

Complies with IEEE802.3, IEEE802.3u, IEEE802.3ab standards

- 8/16/24/48 10/100/1000Mbps Auto-Negotiation RJ45 ports supporting Auto- MDI/MDIX
- All ports Support full/half-duplex mode for 10/100Mbps and full duplex- mode for 1000Mbps
- Supports IEEE802.3x flow control for full-duplex mode and backpressure for half-duplex mode
- Non-blocking switching architecture that forwards and filters packets at full wire-speed for maximum throughput
- 4K entry MAC address table of the TL-SG1008 and 8K entry MAC address table of the TL-SG1016, TL-SG1024 and TL-SG1048 with auto-learning and auto-aging
- LED indicators for monitoring power, link, speed and activity
- Store-and-Forward switching method

Chapter 2 Installation

2.1 Mounting the Switch on a Desk

Before placing the Switch on a desk, attach four rubber footpads to the flutes on the Switch bottom, then lay the Switch on the desktop, where can be able to withstand 5kg of weight.

TL-SG1008, TL-SG1016, TL-SG1024 and TL-SG1048 are different in the number of LED indicators and RJ45 ports. All figures are of TL-SG1008 in this user's guide.



Note

- Make sure there is a grounded AC outlet within 1.5 meters, and working well.
- Make sure there is free space for radiating heat and air.
- \triangleright Make sure not too place anything to heavy on top of the switch.

2.2 Mounting the Switch in a Rack

The dimension of the Gigabit Ethernet Switch is designed according to the standard 19" rack-mountable steel case of Electronic Industries Association.

Turn off all the equipment connected to the Switch before mounting it in the rack, then rivet the two "L" brackets onto each side of the Switch, fasten it with screws in the rack.



Figure 2-1 Rivet the "L" brackets onto the Switch

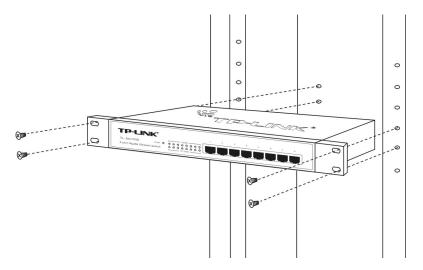


Figure 2-2 Fasten the Switch in the rack

2.3 **Power On**

The Gigabit Ethernet Switch is powered by AC power supply. Powering on the Switch, it will automatically initialize and its LED indicators should respond as follows:

All of the 10/100Mbps Link/Act and 1000Mbps Link/Act LED indicators of 1) the TL-SG1008 will flash momentarily at first, flash sequence later and flash momentarily lastly, which represent a resetting of the system.

All of the 10/100Mbps Link/Act and 1000Mbps Link/Act LED indicators of the

TL-SG1016/TL-SG1024 /TL-SG1048 will flash momentarily for one second, which represent a resetting of the system.

2) The Power indicator will light up all the time.

If the LED indicators don't respond as described above, please check the power supply and connection.

Chapter 3 **Identifying External Components**

This Chapter describes the front panel, rear panel and LED indicators of the Switch. TL-SG1008, TL-SG1016, TL-SG1024 and TL-SG1048 are different in the number of LED indicators and RJ45 ports.

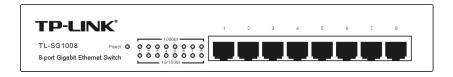


Figure 3-1 TL-SG1008 Switch Front Panel sketch

Rear Panel 3.1

The rear panel of the TL-SG1008 only features a power receptacle, which is an AC power receptacle. Connect the female of the power cord head here, and the male head to the AC power outlet.



Figure 3-2 TL-SG1008 Switch Rear Panel sketch

3.2 **LED Indicators**

The LED indicators include Power, 1000Mbps Link/Act and 10/100Mbps Link/Act LED indicators, which are used for monitoring and pretroubleshooting of the Switch. The following section shows the LED indicators for the switch along with an explanation of each indicator.



Figure 3-3 TL-SG1008 Switch LEDs sketch

Power LED: This indicator will light solid red when the Switch powers up. If the LED is not lit, please check the power supply and connection.

1000Mbps Link/Act LED: This indicator will light solid green when the corresponding port is connected to a 1000Mbps device and will flash green when data is being transmitted or received on the working connection.

10/100Mbps Link/Act LED: This indicator will light solid green when the corresponding port is connected to a 10/100Mbps device and will flash green when data is being transmitted or received on the working connection.

Appendix A: Specifications

General				
	IEEE802.3 10Base-T			
Standards	IEEE802.3u 100Base-TX			
	IEEE802.3ab 1000Base-T			
Topology	Star			
Protocol	CSMA/CD			
	Ethernet: 10Mbps (Half Duplex), 20Mbps (Full Duplex)			
	Fast Ethernet: 100Mbps (Half Duplex), 200Mbps (Full			
Data Transfer Rate	Duplex)			
	Gigabit Ethernet: 2000Mbps (Full Duplex)			
	10Base-T: UTP category 3, 4, 5 cable (maximum 100m)			
	EIA/TIA-568 100Ù STP (maximum 100m)			
Naturalis Madia (Cabla)	100Base-TX: UTP category 5, 5e cable (maximum 100m)			
Network Media(Cable)	EIA/TIA-568 100Ù STP (maximum 100m)			
	1000Base-TX: UTP category 5, 5e or above (maximum 100m)			
	EIA/TIA-568 100Ù STP (maximum 100m)			
Number of Ports	8/16/24/48 10/100/1000Mbps Auto-Negotiation RJ45 ports			
LED indicators	Power, 1000Mbps Link/Act, 10/100Mbps Link/Act			
Transfer Method	Store-and-Forward			
MAC Address Learning	Automatically learning, automatically aging			
	10Base-T: 14880pps/Port			
Frame Filter Rate	100Base-Tx: 148800pps/Port			
	1000Base-T: 1488000pps/Port			
	10Base-T: 14880pps/Port			
Frame Forward Rate	100Base-Tx: 148800pps/Port			
	1000Base-T: 1488000pps/Port			

Appendix B: Troubleshooting

- 1. The Power LED is not lit
- Make sure the AC power cord connected the Switch with power source properly.
- Make sure the power source is ON. \triangleright
- 2. The Link/Act LED is not lit when a device is connected to the corresponding port
- Make sure that the cable connectors are firmly plugged into the Switch and the device.
- Make sure the connected device is turned on and working well.
- The cable must be less than 100 meters long(328 feet).

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