

GIGABIT ETHERNET SWITCH

5/8 Port Gigabit Ethernet Switch

DS51000
DS81000

Instruction Guide



* Actual product may vary from photo

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FCC COMPLIANCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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Introduction

Thank you for purchasing a StarTech.com Gigabit Ethernet switch. Thanks to dedicated bandwidth of 1000 Mbits/sec for each port, your network will enjoy faster response times and fewer bottlenecks. This Gigabit Ethernet switch automatically establishes the fastest transfer speed for each device (1000, 100, or 10 Mbits/sec) and use half- and full-duplex capabilities to optimize your network performance. Each port automatically detects and adjusts for MDI (straight) or MDI-X (crossover) cables so there is no need for a separate uplink port.

Features

- Complies with 802.3ab Gigabit Ethernet, 802.3u Fast Ethernet, and 802.3 Ethernet standards
- Migrates smoothly between 1000Mbits/sec, 100 Mbits/sec, and 10 Mbits/sec network devices
- Capable of half- and full-duplex communication
- Auto-negotiation function determines the optimal transmission rate for each node
- Auto MDI/MDI-X detection allows straight or crossover cables to be used in any port
- Supports store-and-forward switching architecture and full wire speed forwarding and filtering rates
- Supports flow control: IEEE 802.3x for full-duplex mode, back pressure for half-duplex mode
- Backed by StarTech.com's two-year warranty

Before You Begin

To ensure a quick and easy Gigabit Ethernet switch installation, please read through this section carefully before attempting to install the switch.

WARNING! The Gigabit Ethernet switch must be installed and operated in an environment with temperatures between **50-131°F (10-55°C)** and humidity levels of **0-90% (non-condensing)**. Make sure that the switch is kept away from heating sources and that the vents at the side of the device are not blocked. Do not place any objects on top of the device. Make sure that no water or moisture enters the unit. If necessary, use a dehumidifier to reduce humidity near the device.

Contents

This package should contain:

- 1 x Gigabit Ethernet switch
- 1 x external power adapter

System Requirements

This Gigabit Ethernet switch can be connected to PC computers with Ethernet networking cards, or other compatible switches, hubs, or servers.

Note: For each Gigabit network device you want to attach to the switch, you will need UTP network cables that comply with EIA/TIA 568 specifications and Category 5e (minimum for Gigabit transfer rates) patch cable. StarTech.com offers a wide range of these cables in various lengths and colors to suit your network needs. StarTech.com also carries a wide range of Ethernet cards for both PC and notebook computers. For product information, as well as tips and ideas for setting up and running your network, visit <http://www.startech.com> and click on the Networking tab near the top of your screen.

Installation

This section will guide you through the installation of your Gigabit Ethernet switch. Please read through the instructions carefully and complete each step in the order listed.

1. Plug one end of your network cable into an open port at the rear of the switch.
2. Plug the other end of the cable into the RJ-45 port on your network device.
3. Repeat steps 1 and 2 for any other devices you want to connect.
4. Plug one end of the the power adapter into an open outlet and plug the other end into the DC connector at the rear of the device. The green Power LED on the front of the switch should now be lit.

Monitoring Your Fast Ethernet Switch

The LEDs on the front of the switch are the best indication of the switch's activity.

LED	Color	Status	Description
PWR Power	Green	Lit Off	Power is supplied No power
LNK/ACT Link/Activity	Green	Lit Flashing Off	Valid link established Data packets received No link
Speed	Green Yellow	Lit Lit Off	Port running at 1000 Mbits/sec Port running at 100 Mbits/sec Port running at 10 Mbits/sec

Troubleshooting

Power LED is not lit.

- Check that the power cord is properly connected at both ends.

Link/Activity LED is not lit when connected to a 1000 or 100 Mbits/sec device.

- Make sure the device is turned on.
- Make sure the network cable is properly connected at both ends.
- Make sure that your network cables comply with EIA/TIA 568 and Category 5e specifications.

If problems persist, power down all devices and disconnect all plugs from the switch. Wait at least ten seconds and plug the power adapter back into the switch. Then plug the devices back into the switch and power them back up.

Technical Specifications

Standards	IEEE 802.3ab, 802.3u, and 802.3
10/100/1000 Mbits/sec Ports	DS51000 RJ-45 x 5 Auto MDI/MDI-X DS81000 RJ-45 x 8 Auto MDI/MDI-X
Switching Architecture	Store and Forward
MAC Address	8K
Buffer	256 Kbytes
NWay Auto-negotiation	All ports
Full/Half Duplex	All ports
Max. Cable Length	300ft (100m)
LEDS	Power, LNK/ACT (Link/Activity), Speed
Dimensions	7.4 x 3.94 x 1.18 in. (187x100x30 mm)
Power	12V DC, 1.5A (positive center)
Operating Temperature	50-131°F (10-55°C)
Operating Humidity	10-95% (Non-condensing)
Emission	FCC Class B, CE Mark & C-Tick

Technical Support

The following technical resources are available for this StarTech.com product:

On-line help:

We are constantly adding new information to the *Tech Support* section of our web site. To access this page, click the *Tech Support* link on our homepage, www.startech.com. In the tech support section there are a number of options that can provide assistance with this product.

Knowledge Base - This tool allows you to search for answers to common issues using key words that describe the product and your issue.

FAQ - This tool provides quick answers to the top questions asked by our customers.

Downloads - This selection takes you to our driver download page where you can find the latest drivers for this product.

Call StarTech.com tech support for help:

USA/Canada: 1-519-455-4931

UK/Ireland/Europe: 00-800-7827-8324

Support hours: Monday to Friday 9:00AM to 5:00PM EST (except holidays)

Warranty Information

This product is backed by a one-year warranty. In addition, StarTech.com warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

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