

# Fast Ethernet Switch

5/8/16 Port Fast Ethernet Switch

DS5105  
DS8105  
DS16105

Instruction Guide



## 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.

## 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](http://www.startech.com). In the tech support section there are a number of options that can provide assistance with this card.

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: **1-519-455-4931**  
*Support hours: Monday to Friday 9:00AM to 5:00PM EST (except holidays)*

## Warranty Information

**This product is backed by a two-year warranty. In addition StarTech.com warrants its products against defects in materials and workmanship for the periods noted below, 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.**

### Limitation of Liability

In no event shall the liability to StarTech.com Ltd. (or its officers, directors, employees or agents) for any damages (whether direct or indirect, special, punitive incidental, consequential, or otherwise), loss of profits, loss of business, or any pecuniary loss, arising out of related to the use of the product exceed the actual price paid for the product.

Some states do not allow the exclusion or limitation of incidental or consequential damages. If such laws apply, the limitations or exclusions contained in this statement may not apply to you.

## Product Specifications

Standards	IEEE 802.3 and 802.3u	
10/100 Mbps Ports	DS5105	RJ-45 x 5 Auto MDI/MDI-X
	DS8105	RJ-45 x 8 Auto MDI/MDI-X
	DS16105	RJ-45 x 16 Auto MDI/MDI-X
Switching Architecture	Store and Forward	
Filter/Forward Rate	148,800 packets/sec	
MAC Address	DS5105	2K
	DS8105	8K
	DS16105	16K
Buffer	DS5105	128Kbytes
	DS8105	256Kbytes
	DS16105	512Kbytes
NWay Auto-negotiation	All ports	
Full/Half Duplex	All ports	
Max. Cable Length	100m (300ft)	
LEDS	Power, LNK/ACT (Link/Activity), 100M	
Dimensions	DS5105	127 x 83 x 30 mm (5.0 x 3.27 x 1.18 in)
	DS8105	187 x 100 x 30 mm (7.4 x 3.94 x 1.18 in)
	DS16105	290 x 100 x 30 mm (11.4 x 3.94 x 1.18 in)
Weight	DS5105	180g (0.40 Lbs)
	DS8105	320g (0.70 Lbs)
	DS16105	480g (1.06 Lbs)
Power	DS5105	12V DC, 0.5A
	DS8105	12V DC, 0.5A
	DS16105	12V DC, 1A
Operating Temperature	32-131F (0-55C)	
Operating Humidity	10-95% (Non-condensing)	
Emission	FCC Class B, CE Mark & C-Tick	

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## Introduction

Thank you for purchasing a StarTech.com Fast Ethernet switch. Thanks to dedicated high-speed bandwidth for each of your devices, your network will enjoy faster response times and fewer bottlenecks. This Fast Ethernet switch will automatically establish the fastest transfer speed for each device (10 or 100Mbps) and use its 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 10BaseT Ethernet and 100BaseTX Fast Ethernet standards
- Migrates smoothly between 10BaseT and 100BaseTX networks
- 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
- Wall-mountable
- Backed by StarTech.com's two-year warranty

## Before You Begin

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

**WARNING!** The Fast Ethernet switch must be installed and operated in an environment with temperatures between **32-131°F (0-55°C)** and humidity levels of **10-95% (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.

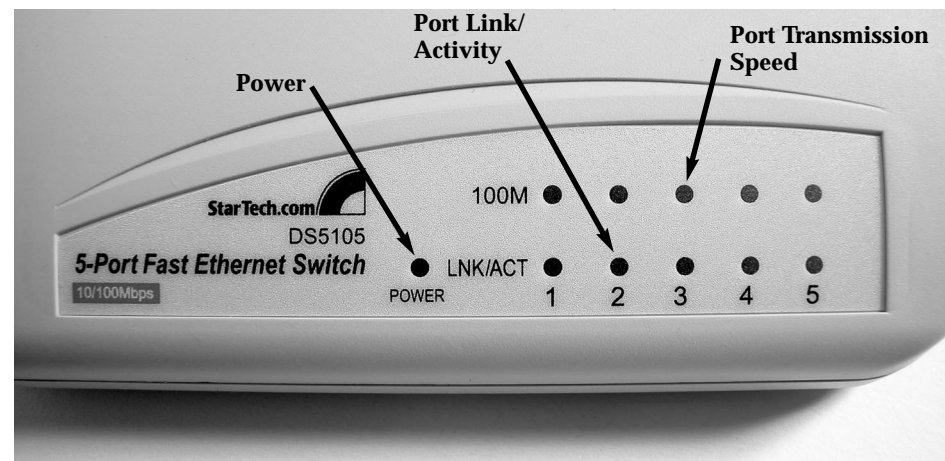
## System Requirements

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

**Note:** For each device you want to attach to the switch, you will need a Category 5 Ethernet UTP patch cable. StarTech.com offers a wide range of these cables in various lengths and colours 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.

## 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
100M 10/100Mbps	Yellow	Lit Off	100Mbps 10Mbps

## 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 100Mbps device.

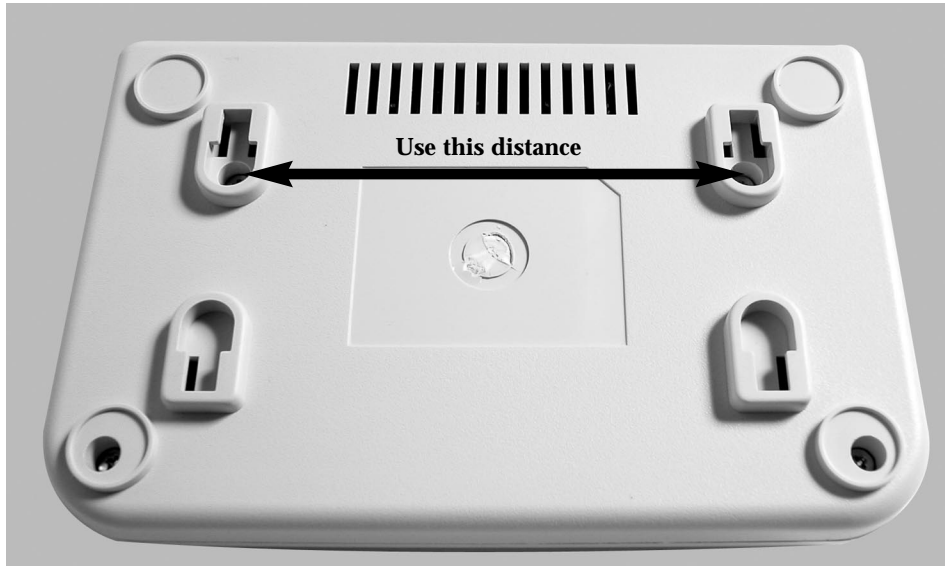
- Make sure the device is turned on.
- Make sure the network cable is properly connected at both ends.
- Make sure that your network cables comply with EIA/TIA 568 and Category 5 specifications.

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.

## Wall-Mounting Your Switch

If desktop space is running low, the StarTech.com Fast Ethernet switch has four wall-mount sockets that allow it to be hung from most walls. To mount the switch, you will need a drill, a screwdriver, two #6 wood screws and their corresponding wall plugs.

1. Carefully measure the distance between the centers of the two screw-holes on the back of the switch. Mark the location of the screw-holes on your wall, making sure your marks are straight and even.



2. Drill the holes in the wall and insert the plastic wall plugs.
3. Insert the screws into the wall plugs so that there is a gap of about 2 mm (about 1/10 of an inch) between the head of the screw and the wall.
4. Place the Fast Ethernet switch so that the wide end of the mounting sockets are over the screwheads. Slide the case downward so that the screwheads slide into the narrow slots.

## Contents

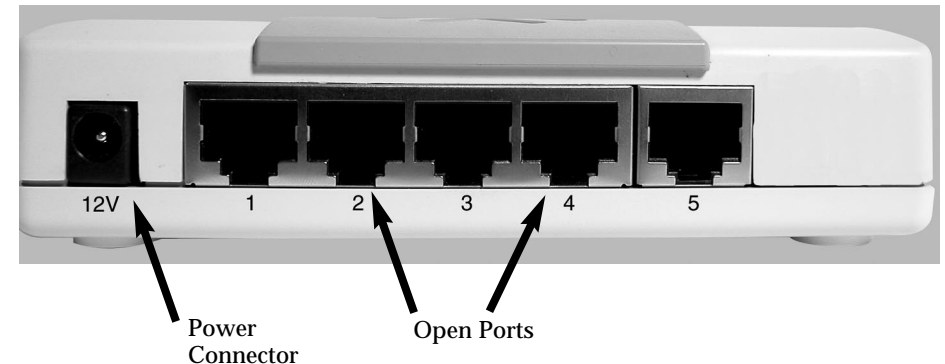
This package should contain:

- 1 x Fast Ethernet switch
- 1 x external power adapter
- 4 x self-adhesive rubber feet

## Installation

This section will guide you through the installation of your Fast 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. (An RJ-45 port looks like a large telephone jack.)
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.