Technical Support

PLEASE REFER TO THE SUPPORT INFORMATION CARD THAT SHIPPED WITH YOUR PRODUCT.

By registering your product at www.NETGEAR.com/register, we can provide you with faster expert technical support and timely notices of product and software upgrades.

NETGEAR, INC.
Support Information
Phone: 1-888-NETGEAR (For US & Canada only) - 24 x7 phone support
See Support Information card for other countries.
E-mail: support@NETGEAR.com (24 x 7 online support)
www.NETGEAR.com

© 2003 NETGEAR, Inc. NETGEAR, the Netgear logo, The Gear Guy, Auto Uplink and Everybody’s Connecting are trademarks or registered trademarks of Netgear, Inc. in the United States and/or other countries. Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States and/or other countries. Other brand and product names are trademarks or registered trademarks of their respective holders. Information is subject to change without notice. All rights reserved
Introduction

The NETGEAR® 5/8-Port Fast Ethernet Switch Model FS105 v2/FS108 v2 provides you with a low-cost, reliable, high-performance switch to connect up to five or eight different Ethernet-enabled devices (such as computers, file servers, print servers, printers, routers and hubs).

You use the FS105 v2/FS108 v2 switch to build a small network that enables you to have 10 Mbps or 100 Mbps access to other devices on the network. Also, with this switch, you can add extra computers to your cable or DSL router. Unlike a hub that shares its connection with all devices, the FS105 v2/FS108 v2 switch provides a full, dedicated 100 Mbps (or 10 Mbps) connection between two devices. If a device has full-duplex capability, the FS105 v2/FS108 v2 switch provides a 200 Mbps (or 20 Mbps) connection.

Ethernet cables come as either straight-through or crossover cables—depending on whether you’re connecting to a device (computer, server, or printer) or networking equipment (hub, switch, or router). With the Auto Uplink™ feature, you don’t have to worry about which one you use. Each port on the FS105 v2/FS108 v2 switch automatically configures itself correctly when you plug in a device’s cable.

If you have a problem with your switch, NETGEAR offers free support 24 hours a day and 7 days a week on the Web (www.NETGEAR.com), by e-mail (support@NETGEAR.com) and by phone (see the provided support information card for phone numbers).

Installation Overview

Estimated Time: 5–10 minutes

1. Unpack the box and verify the contents.
2. Prepare to install the switch.
3. Install the switch and connect the other devices.
1 Unpack the Box and Verify the Contents

When you open the box, verify that you received everything. The package includes:

- 5/8-Port Fast Ethernet Switch FS105 v2/FS108 v2
- AC power adapter
- Wall-mounting screws
- FS105 v2/FS108 v2 Installation Guide (this document)
- Warranty and support information card

If you don’t have everything listed above, see the support information card for contact information. If you’re missing the Technical Support information card itself, get contact information at www.NETGEAR.com in the Customer Service area.

2 Prepare to Install the Switch

Decide where you want to place the switch. Find a flat horizontal surface — such as a table, desk or shelf. The switch comes with wall-mounting screws. You’re welcome to use the screws if you want to hang the switch in an open space on a wall.

Make sure the selected location is:

- Not in direct sunlight or near a heater or heating vent.
- Not cluttered or crowded. There should be at least 2 inches (5 cm) of clear space on all sides of the switch.
- Well ventilated (especially if it is in a closet).

Also, you’ll need one Category 5 (Cat 5) Ethernet cable with RJ-45 connectors for each device you want to connect to the switch. Each Ethernet cable must be less than 328 feet (100 meters).
3 Install the Switch and Connect the Other Devices

1. Place the switch on a flat surface or hook onto the screws.
2. For each device, insert one end of an Ethernet cable into the port in the device and insert the other end into one of the Ethernet ports on the switch.
   
   Note: If you have more than 5 or 8 devices to connect to this switch, you must connect them to a hub or other switch and then connect that hub or switch to this switch.
3. Connect the power adapter's cord into the back of the switch and then plug the adapter into a power source (such as a wall socket or power strip).
   The Power light should light up.
   The corresponding port number for each connected and powered device should light when link (connection), and flash when activity occurs.
   
   Note: If any light doesn't operate as indicated, go to the Troubleshooting section.

Troubleshooting

The Power light is not lit
The switch has no power.
   • Make sure the power cord is properly connected to the switch.
   • Make sure the power adapter is properly connected to a functioning power outlet. If it’s in a power strip, make sure the power strip is turned on. If the socket is controlled by a light switch, make sure the switch is in the on position.
   • Make sure you are using the NETGEAR power adapter supplied with your switch.

The Link/Activity is not lit for a connected device or stays on continuously
There’s a hardware connection problem.
   • Make sure the cable connectors are securely plugged in at the switch and the device.
   • Make sure the connected device is turned on.
   • If the Ethernet cable is connected to a NIC or other Ethernet adapter, make sure the card or adapter is installed correctly and is working.
   • Make sure the cable is less than 328 feet (100 meters).

Technical Specifications

Standards Compatibility:
IEEE 802.3i 10BASE-T Ethernet, IEEE 802.3u,100BASE-TX Fast Ethernet IEEE 802.3x Flow Control; compatible with Windows®, Mac® OS, NetWare®, Linux®

Data Rate:
100 Mbps with 4B/5B encoding and MLT-3 physical interface for 100BASE-TX 10 or 100 Mbps half-duplex

Network Interface:
RJ-45 connector for 10BASE-T or 100BASE-TX Ethernet interface

DC Power:
7.5W max and 7.5V @ 1A DC input

Physical Dimensions:
FS105 v2 - W: 94.8 mm (3.73”) D: 101 mm (3.98”) H: 27 mm (1.06”)
FS108 v2 - W: 158 mm (6.22”) D: 101 mm (3.98”) H: 27 mm (1.06”)

Weight:
FS105 v2 - 0.275 kg (0.6 lbs); FS108 v2 - 0.49 kg (1.08 lbs)

Operating Temperature:
0 to 40˚ C (32 to 104˚ F)

Operating Humidity:
10% to 90% relative humidity, non-condensing

Electromagnetic Compliance:
CE mark, Commercial; FCC Part 15, Class B; EN 55 022 (CISPR 22) Class B, C-Tick

Safety Agency Approvals for the Power Adapter:
CE mark, Commercial UL listed (UL 1950), TUV licensed (EN 60950), C-Tick

Performance Specifications

Frame Filter Rate:
14,800 frames/sec max for 10M port / 148,800 frames/sec max for 100M port

Frame Forward Rate:
14,800 frames/sec max for 10M port / 148,800 frames/sec max for 100M port

Network Latency:
100 Mbps to 100 Mbps: 20 µs max

Address Database Size:
1024 MAC addresses

Addressing:
48-bit MAC address

Queue Buffer:
FS105 v2 - 64 kilobytes; FS108 v2 - 96 kilobytes