



NETGEAR FS105 V2 Fast Ethernet Switch Installation Guide

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NETGEAR

NETGEAR FS105 V2 Fast Ethernet Switch



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.

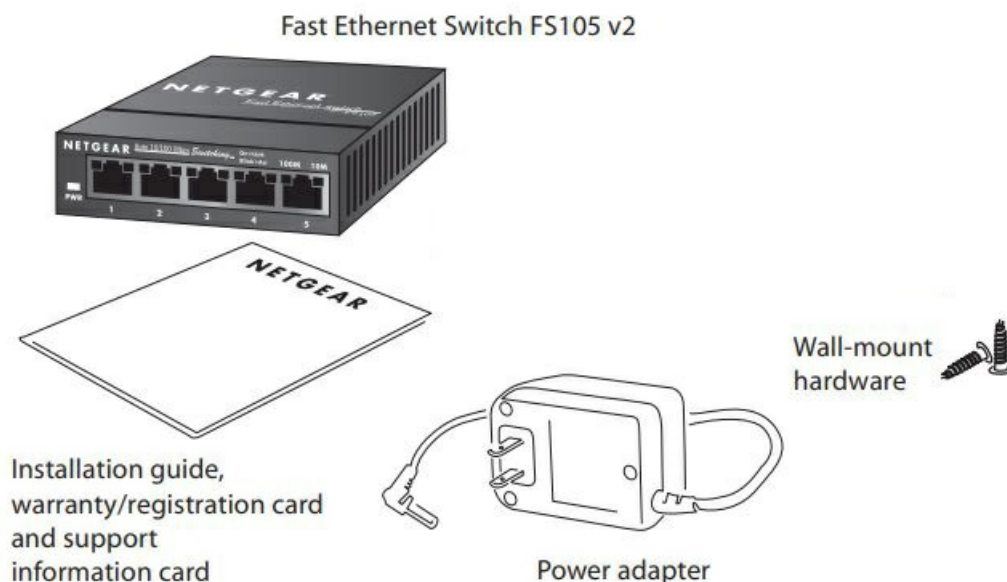
If you have a problem with your switch, NETGEAR offers free support 24 hours a day and 7 days a week on the Web (www.NETGEAR.com), by e-mail (support@NETGEAR.com) and by phone (see the provided support information card for phone numbers).

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.

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.

Prepare to Install the Switch

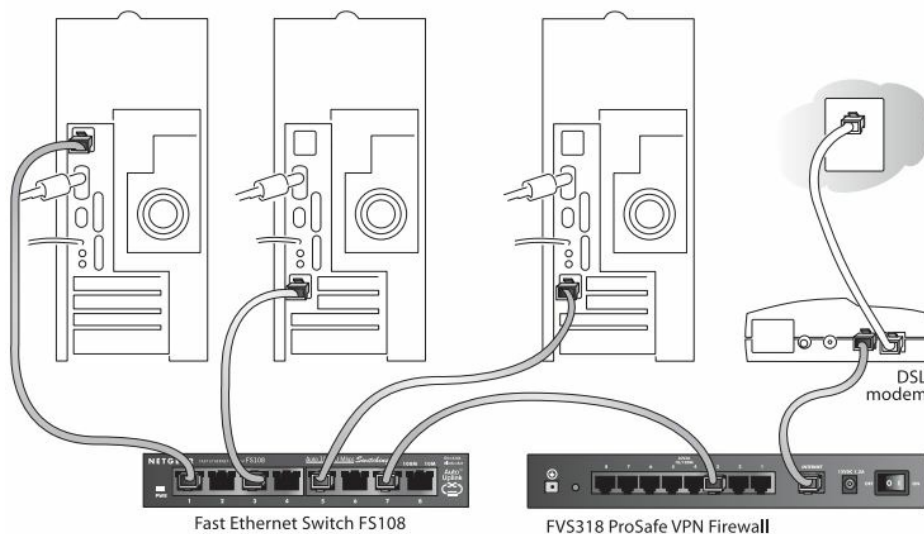
Decide where you want to place the switch. Find a flat horizontal surface — such as a table, desk or shelf. The switch comes with wall-mounting screws. You're welcome to use the screws if you want to hang the switch in an open space on a wall.

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).

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
- **Physical Dimensions:** FS105 v2 – W: 94.8 mm (3.73") D: 101 mm (3.98") H: 27 mm (1.06")
- **Weight:** FS105 v2 – 0.275 kg (0.6 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
- **Frame Forward Rate:** 14,800 frames/sec max for 10M port
- **Network Latency:** 100 Mbps to 100 Mbps: 20 µs max (using 64-byte packets)
- **Address Database Size:** 1024 MAC addresses
- **Addressing:** 48-bit MAC address
- **Queue Buffer:** FS105 v2 – 64 kilobytes

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)

Website: www.NETGEAR.com

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FAQ's

What is the NETGEAR FS105 V2 Fast Ethernet Switch?

The NETGEAR FS105 V2 is a 5-port unmanaged Fast Ethernet switch that allows you to expand your network by connecting multiple devices together, such as computers, printers, and other networking devices.

How many Ethernet ports does the FS105 V2 have?

The FS105 V2 has five Ethernet ports, all of which support Fast Ethernet (10/100 Mbps) speeds.

Is the NETGEAR FS105 V2 a PoE (Power over Ethernet) switch?

No, the NETGEAR FS105 V2 is not a PoE switch. It does not provide power to connected devices over the Ethernet ports.

What is the difference between a managed and unmanaged switch?

A managed switch allows network administrators to configure and control various aspects of the network, while an unmanaged switch operates out of the box without any configuration options.

Does the FS105 V2 support auto-negotiation?

Yes, the FS105 V2 supports auto-negotiation, which allows it to automatically determine and adjust the best network speed and duplex mode for connected devices.

What is the maximum data transfer rate of the FS105 V2?

The NETGEAR FS105 V2 supports Fast Ethernet speeds of up to 100 Mbps.

Is the FS105 V2 fanless?

Yes, the FS105 V2 is fanless, which means it operates silently without any noise.

Can I mount the FS105 V2 on a wall?

Yes, the FS105 V2 is designed for desktop or wall-mounting, providing flexible installation options.

Does the FS105 V2 support Quality of Service (QoS) features?

No, the FS105 V2 is an unmanaged switch and does not have QoS capabilities.

Can I use the FS105 V2 for home networking?

Yes, the FS105 V2 is suitable for home networking, especially when you need to connect multiple devices in a small network environment.

Is the FS105 V2 compatible with both Windows and Mac computers?

Yes, the FS105 V2 is compatible with both Windows and Mac computers, as well as other devices that support Ethernet connections.

Does the FS105 V2 support VLAN (Virtual LAN) configurations?

No, the FS105 V2 is an unmanaged switch and does not support VLAN configurations. For VLAN functionality, you would need a managed switch.

References: [NETGEAR FS105 V2 Fast Ethernet Switch – Device.report](#)