

NETGEAR®

Gigabit Ethernet Switch

10/100/1000 Mbps **GS605 / GS608**



Installation Guide

Introduction

The NETGEAR® 5/8-Port Gigabit Ethernet Switch Model GS605 / GS608 provides you with a high-speed, reliable, easy-to-use switch to connect up to five or eight different Ethernet enabled devices (such as computers, file servers, print servers, printers, routers and hubs).



Gigabit Ethernet Switch GS605 / GS608

You use the GS605 / GS608 switch to build a small network that enables you to have 10 Mbps, 100 Mbps and 1000 Mbps connections to other devices on the network. Using Gigabit Ethernet (1000 Mbps), you will be sending files across your network at speeds up to 2,000 Mbps due to the full-duplex nature of Gigabit Ethernet. This enables you to move large amounts of data up to 10 times faster than a Fast Ethernet switch. Also, with this switch, you can add extra computers to your cable or DSL router.

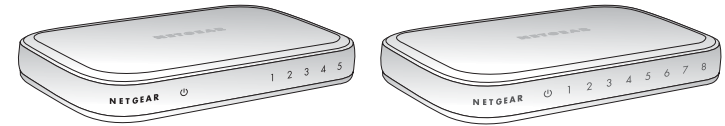
Ethernet cables come as either straight-through or crossover cables—depending on whether you're connecting to a device (computer, server, or printer) or networking equipment (hub, switch, or router). With the Auto Uplink™ feature, you don't have to worry about which one you use. Each port on the GS605/GS608 switch automatically configures itself correctly when you plug in a device's cable.

Installation Overview

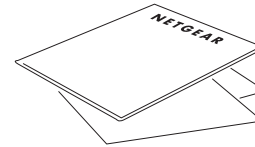
Estimated Time: 5–10 minutes

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

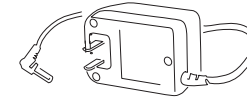
1 Unpack the Box and Verify the Contents



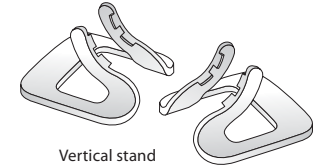
Gigabit Ethernet Switch GS605/GS608



Installation guide, Warranty/
Support information card



Power adapter



Vertical stand

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

- 5/8-port Gigabit Ethernet Switch GS605/GS608
- Power adapter
- Vertical stand
- Installation guide
- Warranty/Support information card

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.

Make sure the selected location is:

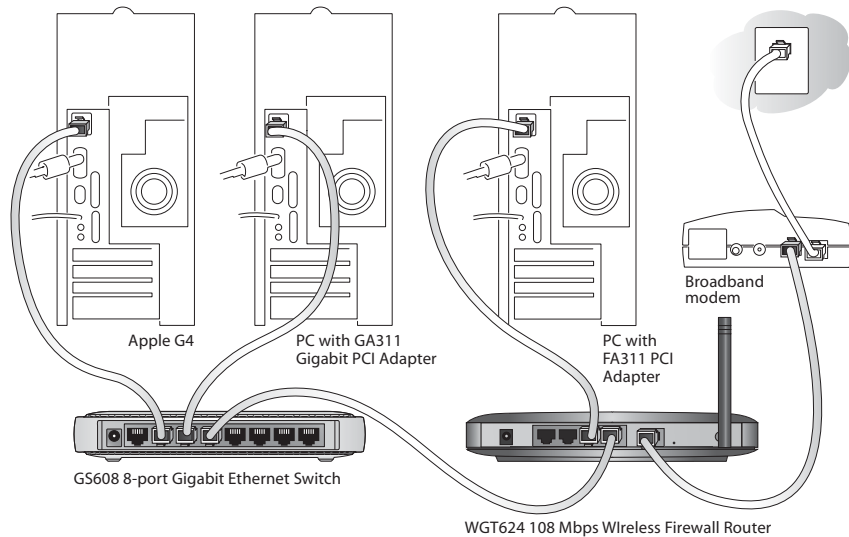
- Not in direct sunlight or near a heater or heating vent.
- Not cluttered or crowded. There should be at least 2 inches (5 cm) of clear space on all sides of the switch.

- Well ventilated (especially if it is in a closet).

Note: Neither the GS605 nor GS608 are designed to be stacked on top of other GS605 or GS608 switches. If you need several units in one location, use the vertical stand to position several units near each other.

Also, you'll need one Enhanced Category 5 (Cat 5e) 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.
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. See the note about placing several switches near each other in section 2.

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.

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 Port number light 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 Specification

Standards Compatibility:	Specifications IEEE 802.3i 10BASE-T Ethernet, IEEE 802.3u, 100BASE-TX Fast Ethernet, IEEE 802.3ab 1000BASE-T Gigabit Ethernet, IEEE 802.3x Flow Control, IEEE 802.1p Priority Tags; compatible with Windows®, Mac® OS, NetWare®, Linux®
Network Interface:	RJ-45 connector for 10BASE-T, 100BASE-TX, or 1000BASE-T Ethernet interface
DC Power:	12W max and 12 V @ 1A DC input
Physical Dimensions (h x w x d):	1.2 x 7 x 4.6 in (31 x 177 x 117 mm)
Weight:	GS605: 0.63 lbs (0.28 kg) / GS608: 0.69 lbs (0.31 kg)
Operating Temperature:	0 to 40° C (32 to 104° F)
Electromagnetic Compliance:	CE mark, Commercial; FCC Part 15, Class A; EN 55 022 (CISPR 22) Class A, VCCI Class A, C-Tick
Safety Agency Approvals for the Power Adapter:	CE mark, Commercial UL listed (UL 1950), C-Tick

Performance Specifications

Frame Filter Rate:	14,800 frames/sec max for 10M port/148,800 frames/sec max for 100M port/1,488,000 frames/sec max for 1000M port
Frame Forward Rate:	14,800 frames/sec max for 10M port / 148,800 frames/sec max for 100M port/1,488,000 frames/sec max for 1000M port
Network Latency: (using 64-byte packets)	1000 Mbps to 1000 Mbps: 20 µs max
Address Database Size:	4000 MAC addresses
Addressing:	48-bit MAC address
Packet Buffer Memory:	1 Mb

Statement of Conditions

In the interest of improving internal design, operational function, and/or reliability, NETGEAR reserves the right to make changes to the product described in this document without notice.

NETGEAR does not assume any liability that may occur due to the use or application of the product(s) or circuit layout(s) described herein.

Certificate of the Manufacturer/Importer

It is hereby certified that the NETGEAR Model GS605/608 Gigabit Ethernet Switch has been suppressed in accordance with the conditions set out in the BMPT-AmtsblVfg 243/1991 and Vfg 46/1992. The operation of some equipment (for example, test transmitters) in accordance with the regulations may, however, be subject to certain restrictions. Please refer to the notes in the operating instructions.

Federal Office for Telecommunications Approvals has been notified of the placing of this equipment on the market and has been granted the right to test the series for compliance with the regulations.

Federal Communications Commission (FCC) Compliance Notice: Radio Frequency Notice

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Note: 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 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.

EN 55 022 Declaration of Conformance

This is to certify that the NETGEAR Model GS605/608 Gigabit Ethernet Switch is shielded against the generation of radio interference in accordance with the application of Council Directive 89/336/EEC, Article 4a.

Conformity is declared by the application of EN 55 022 Class A (CISPR 22).

Canadian Department of Communications Radio Interference Regulations

This digital apparatus (NETGEAR Model GS605/608 Gigabit Ethernet Switch) does not exceed the Class A limits for radio-noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian

Department of Communications

Règlement sur le brouillage radioélectrique du ministère des Communications Cet appareil numérique (NETGEAR Model GS605/608 Gigabit Ethernet Switch) respecte les limites de bruits radioélectriques visant les appareils numériques de classe A prescrites dans le Règlement sur le brouillage radioélectrique du ministère des Communications du Canada.

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.

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