

- 3. Install the switch and connect the other devices.
 - Prepare to install the switch.
 - 1. Unpack the box and verify the contents. Estimated Time: 5-10 minutes

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electrical wiring and power outlets in new or hard to reach places. saving up to 50% of overall installation costs by eliminating the need to install separate generically called Powered Devices (PD). PoE is already widely adopted in the market, points and IP cameras, for a distance up to 100 Meters. Products that are powered by PoE are will provide power to PoE compatible device, such as IP telephones, wireless LAN access The FS108P complies with the 802.3 af standard. Using category 5/5e cable or better, PoE standard defines how products should provide and receive power over the data infrastructure. eliminating the need to have AC power adapters available at all locations. The IEEE 802.3af Power over Ethernet (PoE) integrates power and data onto one single cabling infrastructure,

Power over Ethernet (PoE)

ProSafeTM 8 Port 10/100 Switch with 4 Port PoE F5108P



provided support information card for phone numbers).

Web (www.NETGEAR.com), by e-mail (support@NETGEAR.com) and by phone (see the with your switch, NETGEAR offers free support 24 hours a day and 7days a week on the requirements, and will supply the required power to each appliance. If you have a problem other PoE-capable devices. The switch will automatically detect the device's power on each PoE port and can be used to drive WLAN access points, IP phones, IP cameras and presence of IEEE 802.3af-compliant devices. The switch will provide up to 15.4 W of power through 4 of this Switch can provide standards-based PoE, and will automatically detect the sturdy, compact package, the FS108P provides 8 ports of standard networking. Ports 1 form factor. Integrating both 100Mbps Fast Ethernet and 10Mbps Ethernet capabilities in a Port PoE FS108P. This switch provides Power over Ethernet (PoE) capabilities in a small Congratulations on your purchase of the NETGEAR® ProSafeTM 8 Port 10/100 Switch with 4

Introduction

brouillage radioélectrique du ministère des Communications du Canada. limites de bruits radioélectriques visant les appareils numériques de classe B prescrites dans le Règlement sur le

Cet appareil numérique (NETGEAR Model ProSafe 8 Port 10/100 Switch with 4 Port PoE FS108P) respecté les Règlement sur le brouillage radioélectrique du ministère des Communications

Canadian Department of Communications.

Class B limits for radio-noise emissions from digital apparatus as set out in the Radio Interference Regulations of the This digital apparatus (NETGEAR Model ProSafe 8 Port 10/100 Switch with 4 Port PoE FS108P does not exceed the Canadian Department of Communications Radio Interference Regulations

Article 4a. Conformity is declared by the application of EN 55 022 Class B (CISPR 22). against the generation of radio interference in accordance with the application of Council Directive 89/336/EEC, This is to certify that the NETGEAR Model ProSafe 8 Port 10/100 Switch with 4 Port PoE FS108P is shielded EN 55 022 Declaration of Conformance

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

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

- This device must accept any interference received, including interference that may cause undesired operation.
 - This device may not cause harmful interference.
- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: Federal Communications Commission (FCC) Compliance Motice: Radio Frequency Motice

受信障害を引き起こすことがあります。取扱説明書に従って正しい取り扱いをして下さい。 , 」とれる用動フし発迅に熱計受く E ジョンテかん この装置がって 楽画 まいろしょ 自身としていますが, この装置がラジャランド Voluntary Control Council for Interference (VCCI) Statement

the right to test the series for compliance with the regulations. Telecommunications Approvals has been notified of the placing of this equipment on the market and has been granted subject to certain restrictions. Please refer to the notes in the operating instructions. Federal Office for operation of some equipment (for example, test transmitters) in accordance with the regulations may, however, be suppressed in accordance with the conditions set out in the BMPT-AmtsbIVfg 243/1991 and Vfg 46/1992. The It is hereby certified that the NETGEAR Model ProSafe 8 Port 10/100 Switch with 4 Port PoE FS108P has been

Certificate of the Manufacturer/Importer

may occur due to the use or application of the product(s) or circuit layout(s) described here in. make changes to the product described in this document without notice. NETGEAR does not assume any liability that In the interest of improving internal design, operational function, and/or reliability, NETGEAR reserves the right to Statement of Conditions

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

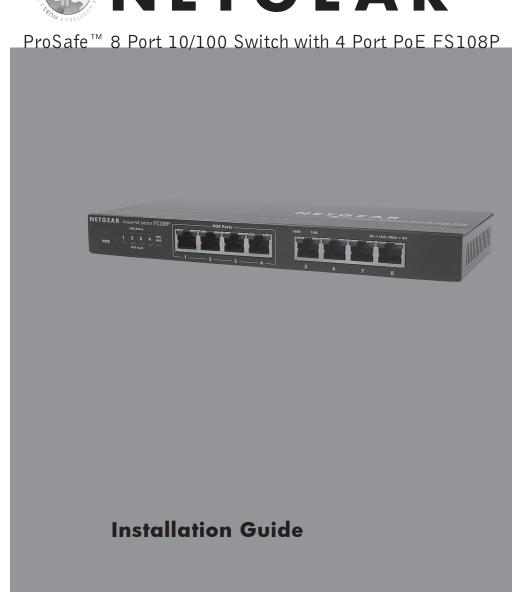
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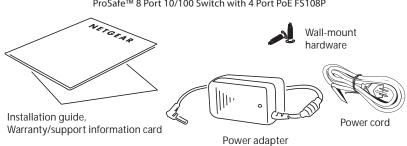




Unpack the Box and Verify the Contents



ProSafe™ 8 Port 10/100 Switch with 4 Port PoE FS108P



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

- ProSafe™ 8 Port 10/100 Switch with 4 Port PoE FS108P
- · AC power adapter and power cord
- · Wall-mounting screws
- FS108P 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
- 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).



LED Definitions

System LED:

Power

On (Green)	The FS108P is power on.
Off	Power is not being supplied to the unit.

PoE Status LED (Port 1 ~ Port 4):

PoE Active

On (Green)	The PoE powered device (PD) is connected and
	the port is supplying power successfully.
Off	No PoE powered device (PD) connected.

PoE Fault

	On (Yellow)	Indicates one of the following failures resulted in stopping power to that port: · Short circuit on PoE power circuit · PoE power demand exceeds power available · PoE current exceeds PD's classification · Out of proper voltage band (44 ~ 57 VDC)
İ	Off	The PoE port is working normally.

PoE MAX

On (Yellow)	Indicates less than 7W of PoE power is available
Blinking (Yellow)	Indicates the PoE MAX LED was active in the previous two minutes
Off	There is at least 7W of PoE power available for another device

3 PDs are connected to FS108P (Port 1 ~ Port 3) consuming 46.2W, leaving 6.8W of power available. The PoE MAX LED will light up, as there is less than 7W of power available. The FS108P will not provide power connected PD. The 6.8W of power is reserved for power surges by the original PD devices.

PoE LED example 2:

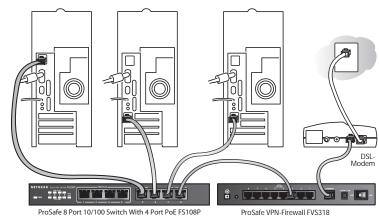
Port 1, Port 2, and Port 4 have PDs drawing 15W, and Port 3 has a PD drawing 5W, for a total power draw of 50W. Since the remaining power is less than 7W, the PoE MAX LED will light up. If the PD on Port 3 surges to 10W, thereby exceeding the power budget (53W), Port 4 will stop providing power since it has the lowest priority of the three ports providing power. The power from Port 4 will be allocated to provide power to Port 3. The PoE LED for Port 4 will turn off, the PoE Fault LED for Port 4 will turn on, and the PoE MAX LED will flash for two minutes then turn off since there is now more than 7W available.

Ethernet Port Status LED (Port 1 ~ Port 8):

10M/100M

On (Green)	A link has been successfully established on the port
Blinking	The port is transmitting or receiving data
Off	No link.

Install the Switch and Connect the Other Devices



- Place the switch on a flat surface or hook onto the screws.
- 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 8 devices to connect to this switch, you must connect them to a switch and then connect that switch to this switch.
- 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 10M/100M LED 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 Trouble shooting section.
- Connect PDs to Port 1 ~ Port 4 of FS108P. These PoE ports will automatically activate when a compatible device is connected. The FS108P will not provide power to PD devices that are not compatible with the PoE Standard IEEE 802.3af. This feature allows users to freely and safely mix legacy and standards-based PoE devices on the network without concern for damaging equipment. (Please refer to LED Definitions section for more detail on PoE LED examples)

Front Panel:



Real Panel:

DC Power Jack: Power is supplied through an external DC power adapter. Check the technical specification section for information about the DC power input voltage.

Note: Be sure to connect 48V/1.25A power adapter DC plug to DC jack of FS108P before plugging the power cord to AC power outlet.

Grounding Connection: A grounding strap location is provided to enable you to ground the case to Earth.

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, IEEE 802.1p priority tags, IEEE 802.3af Power over Ethernet; compatible with Windows®, Mac®OS, NetWare®, Linux®

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

10/100Mbps Auto-Uplink RJ45 ports with PoE enabled (port 1 ~ port 4) Port Description:

10/100Mbps Auto-Uplink RJ45 ports (port 5 ~ port 8)

60W max and 48V @ 1.25A DC input DC Power: 53W max (all PoE ports, port 1 to port 4), 15.4W max per PoE port PoE Power Consumption:

Physical Dimensions (WxDxH): 235x103x27 mm (9.3x4.1x1.1 in.) 0.74 kg (1.7 lbs) Weight:

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

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

Electromagnetic Compliance: CE Class B; FCC Part 15, Class B; VCCI Class B; C-Tick Class B

Safety Agency Approvals:

Performance Specifications

Data Rate:

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

100 Mbps to 100 Mbps: 20 us max (using 64-byte packets) Network Latency:

1024 MAC addresses Address Database Size: 48-bit MAC address Addressing: 96 KBytes Queue Buffer:



