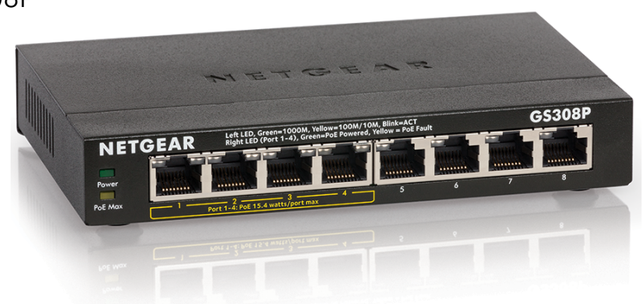
NETGEAR
BUSINESS

Installation Guide

8-Port Gigabit Ethernet Switch with 4-Port PoE

GS308P



Package contents

- NETGEAR 8-Port Gigabit Ethernet Switch with 4-Port PoE Model GS308P
- Power adapter
- Power cord (varies by region)
- Wall installation kit
- Rubber feet
- Installation guide

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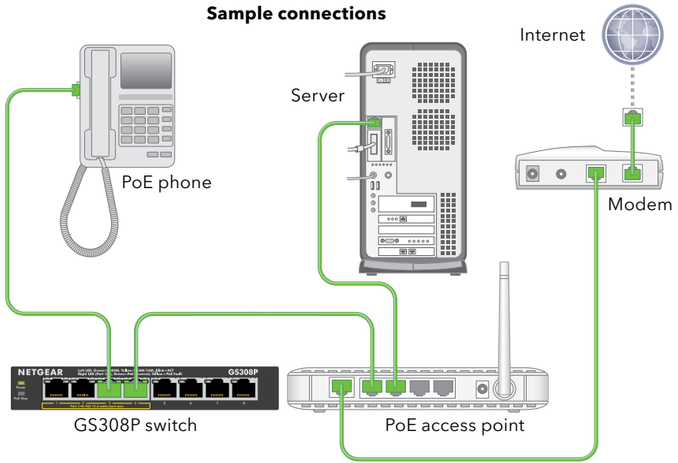
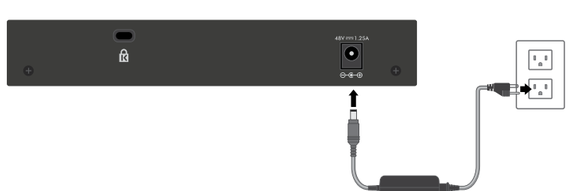
Step 1. Connect the equipment.



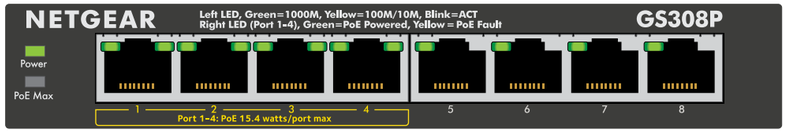
This switch is designed for indoor use only. If you want to connect it to a device located outdoors, the outdoor device must be properly grounded and surge protected, and you must install an Ethernet surge protector inline between the switch and the outdoor device. Failure to do so can damage the switch.

WARNING: Before connecting this switch to outdoor cables or devices, see https://kb.netgear.com/000057103 for safety and warranty information.

Step 2. Connect to power.



Step 3. Check the status.



Power LED

- On
- Off

Left Port LEDs (Ports 1–4)

- 1000 Mbps link
- 100 or 10 Mbps link
- Activity (blinking)
- No link (off)

Right PoE LEDs (Ports 1–8)

- PoE in use
- PoE halted (see PoE troubleshooting)
- No PoE use (off)

PoE Max LED

The maximum PoE (802.3af) power that the switch can deliver to all attached powered devices (PDs) is 53 Watts (W) total. Ports 1 through 4 can support PoE power with a maximum power to each port of 15.4W. (For more information, see PoE considerations.)

The PoE Max LED indicates the status of the PoE power that the switch can deliver to all attached PDs.

- **Solid amber**: Less than 7W of PoE power is available on the switch (the LED is on).
- **Blinking amber**: The PoE Max LED was active in the previous two minutes (the LED is blinking).
- **Off**: Sufficient (more than 7W of) PoE power is available on the switch.

PoE considerations

The switch prioritizes the PoE (802.3af) power that it supplies in ascending port order (from port 1 to port 4), up to its total power budget (53 Watts). If the power requirements for the attached powered devices (PDs) exceed the total power budget of the switch, the PD on the highest numbered port is disabled to ensure that the PDs that are connected to the higher priority, lower numbered ports are supported first.

Just because a PD is listed as an 802.3af PoE powered device does not necessarily mean that it requires the maximum power limit of the specification. Many PDs require less power, allowing all four PoE ports to be active simultaneously.

The following table describes the PoE classes and switch allocations.

Device Class	Standard	Class Description	Minimum Power Allocated to the Powered Device	Range of Power Delivered to the Powered Device
0	PoE and PoE+	Default power (full)	0.44W	0.44W–12.95W
1	PoE and PoE+	Very low power	4.0W	0.44W–3.84W
2	PoE and PoE+	Low power	7.0W	3.84W–6.49W
3	PoE and PoE+	Mid power	15.4W	6.49W–12.95W
4	PoE+ only	High power	30.0W	12.95W–25.5W

PoE troubleshooting

Here are some tips for correcting PoE problems that might occur:

- Make sure that the PoE Max LED is off. If the PoE Max LED is solid amber, disconnect one or more PoE devices to prevent PoE oversubscription. Start by disconnecting the device from the highest numbered port.
- Make sure that the Ethernet cables are plugged in correctly. For each powered device (PD) that is connected to the switch, the corresponding right port LED on the switch lights solid green. If the right port LED lights solid amber, a PoE fault occurred and PoE halted because of one of the conditions that are listed in the following table.

PoE Fault Condition	Possible Solution
A PoE-related short circuit occurred on the port.	The problem is most likely with the attached PD. Check the condition of the PD or restart the PD by disconnecting and reconnecting the PD.
The PoE power demand of the PD exceeded the maximum level of 16.2W that the switch permits.	
The PoE current on the port exceeded the classification limit of the PD.	
The PoE voltage of the port is outside the range that the switch permits.	Restart the switch to see if the condition resolves itself.

Specifications

Specification	Description
Network interface	RJ-45 connector for 1000BASE-T, 100BASE-TX, or 10BASE-T
Network cable	Category 5 (Cat 5) or higher rated Ethernet cable
Ports	8
Power adapter	48V @ 1.25 A DC input
Power consumption	7.0W max. (no PoE) 60W max (with PoE)
PoE power budget	Ports 1-4: 15.4W maximum per PoE port, up to 53W total PoE power for the switch. For more information, see PoE considerations.
Dimensions (W x D x H)	6.2 in. x 4.0 in. x 1.1 in. (158 mm x 101 mm x 29 mm)
Weight	1.02 lb (0.46 kg)
Operating temperature	32–104°F (0–40°C)
Operating humidity	10%–90% relative humidity, noncondensing
Compliance	FCC Class A, CE Class A, VCCI Class A, RCM Class A, CCC, CB, KC

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See the regulatory compliance document before connecting the power supply.

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Do not use this device outdoors. The PoE source is intended for intra building connection only.

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