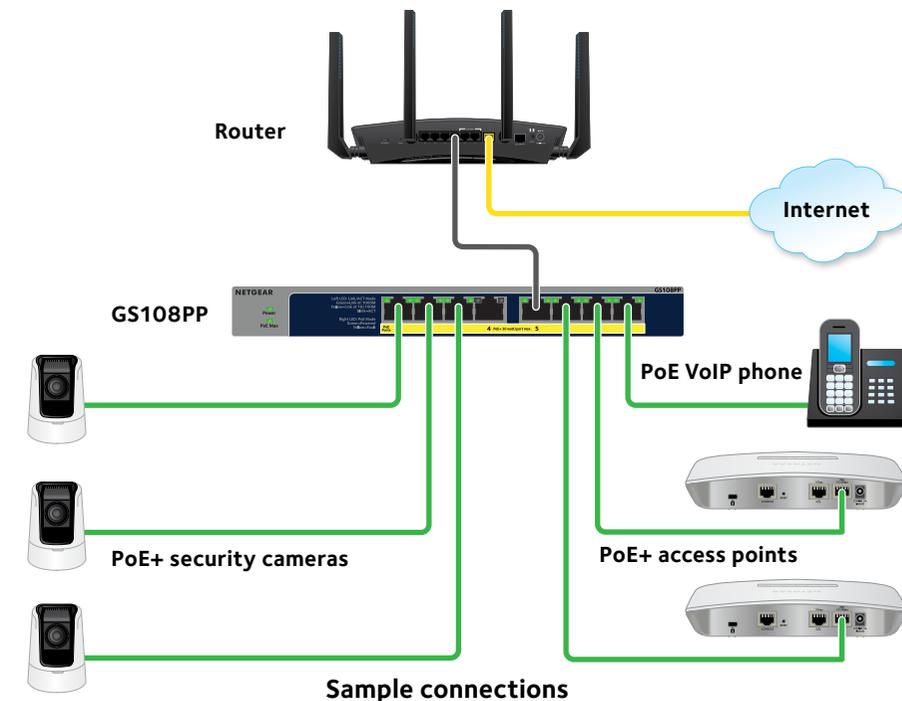# Installation

8-Port PoE/PoE+ Gigabit Unmanaged Switch

Desktop Pro GS108PP

Package Content

- Switch
- Power adapter (localized to the country of sale)
- Wall installation kit
- Rubber feet
- Rack-mount kit
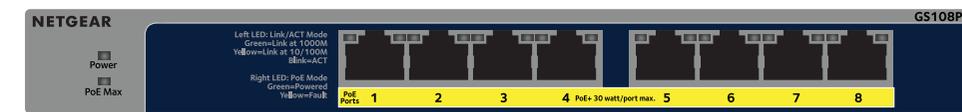- Installation guide

Step 1. Connect the equipment.

Router

Internet

GS108PP

PoE VoIP phone

PoE+ security cameras

PoE+ access points

Sample connections

Step 2. Connect to power.

LED Status

Power LED

| | On |
| | Off |

Left Port LEDs

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

Right PoE LEDs

	PoE in use
	PoE halted (see *PoE Troubleshooting*)
	No PoE use (off)

PoE Max LED

The maximum PoE power that the switch can deliver to all attached powered devices (PDs) is 123 watts total, with a maximum power to each port of 30 watts. (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, as follows:

Solid amber. Less than 7W of PoE power is available on the switch.

Blinking amber. The PoE Max LED was lit solid in the previous two minutes.

Sufficient (more than 7W of) PoE power is available on the switch (the LED is off).

PoE Considerations

The switch prioritizes the PoE and PoE+ power that it supplies in ascending port order (from port 1 to port 8), with a total power budget of 123 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 make sure that the PDs that are connected to the higher-priority, lower numbered ports are supported first.

Just because a PD is listed as an 802.3at PoE powered device does not necessarily mean that it requires the maximum power limit of the specification. Many PDs require less power, allowing all eight 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 that the switch permits, which is 30.9W.	
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.

Cables and Speeds

The following table describes the network cables that you can use for the switch connections and the speeds that these cables can support, up to 328 feet (100 meters).

Speed	Cable Type
100 Mbps	Category 5 (Cat 5) or higher rated
1 Gbps	Category 5e (Cat 5e) or higher rated

Attach the Switch to a Wall

To attach the switch to a wall, you need the wall-mount screws that are supplied with the switch.

➢ To attach the switch to a wall:

1. Locate the two mount holes on the bottom panel of the switch.

2. Mark and drill two mounting holes in the wall where you want to mount the switch.

   The two mounting holes must be at a precise distance of 4.27 in. (108.4 mm) from each other.

3. Insert the supplied anchors into the wall and tighten the supplied screws with a No. 2 Phillips screwdriver.

   Leave about 0.125 in. (4 mm) of each screw protruding from the wall so that you can insert the screws into the holes on the bottom panel.

WARNING: When attaching the GS108PP switch to a wall, face the ports downward for proper ventilation and to reduce the risk of overheating.

Install the Switch in a Rack

To install the switch in a rack, you need the rack-mount brackets and screws that are supplied with the switch.

➢ To install the switch in a rack:

1. Attach the supplied mounting brackets to the side of the switch.

   Insert the screws provided in the product package through each bracket and into the bracket mounting holes in the switch.

2. Tighten the screws with a No. 2 Phillips screwdriver to secure each bracket.

3. Align the mounting holes in the brackets with the holes in the rack, and insert two pan-head screws with nylon washers through each bracket and into the rack.

4. Tighten the screws with a No. 2 Phillips screwdriver to secure mounting brackets to the rack.

Specifications

Specification	Description
Network interfaces	Eight Gigabit Ethernet RJ-45 ports that support 1G, 100 M, and 10 M Eight PoE/PoE+ ports
Power adapter input	Power adapter is localized to the country of sale.
Power adapter output	The switch supports three power adapters: • 130W: 54V @ 2.4A (included) • 90W: 54V @ 1.66A • 67.5W: 54V @ 1.25A
Max PoE budget	The maximum budget for each power adapter is: 130W: 123W PoE budget 90W: 83W PoE budget 67.5W: 60.5W PoE budget
Dimensions (W x D x H)	9.3 x 4.0 x 1 in. (236 x 102 x 27 mm)
Weight	1.30 lb (0.59 kg)
Operating temperature	32–104°F (0–40°C)
Operating humidity	10%–90% relative humidity, noncondensing
Compliance	FCC class A, CB, CE class A, VCCI class A, RCM class A, KC, BSMI, EAC

Support

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For the current EU Declaration of Conformity, visit *http://kb.netgear.com/11621*.

For regulatory compliance information, visit *http://www.netgear.com/about/regulatory/*.

See the regulatory compliance document before connecting the power supply.