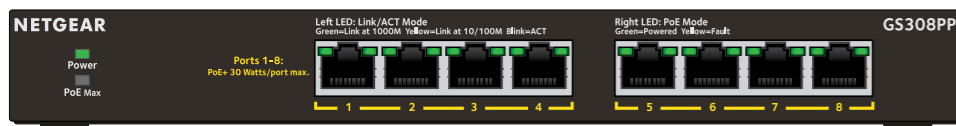


Installation Guide

8-port Gigabit Ethernet Unmanaged High-Power PoE+ Switch with FlexPoE Model GS308PP



Package contents

- Switch
- Power cord (varies by region)
- Power Adapter (90W)
- Wall installation kit
- Rubber feet
- Mounting ties (for power adapter)
- Installation guide

Register with the NETGEAR Insight app

1. Search for **NETGEAR Insight** and download the latest app.

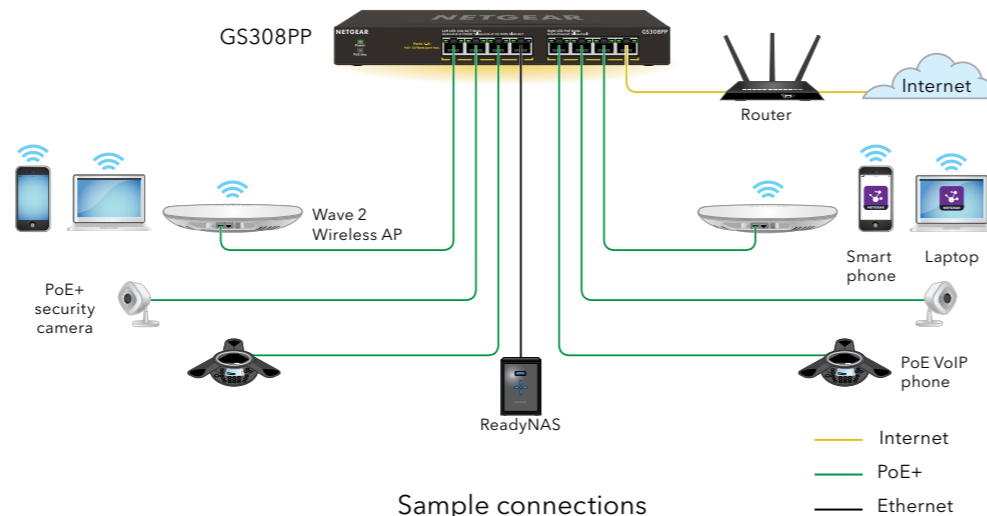


2. Set up a NETGEAR account if you do not have one.
3. Tap the menu in the upper-left corner.
4. Tap **REGISTER ANY NETGEAR DEVICE**.
5. Enter the serial number located on the bottom of the switch, or use the camera on your mobile device to scan the serial number bar code.
6. Tap **GO**.

The switch is registered and added to your account. You can now view the switch in the NETGEAR Insight app.

Note: Because this is an unmanaged switch, you cannot configure or manage it in NETGEAR Insight.

Connect the switch



1. Connect network devices to the ports on the switch.
2. Connect an RJ-45 port on the switch to a network.
Note: In a small office or home office network, connect the switch to the LAN port of a router that, in turn, is connected to an Internet modem.
3. Power on the switch.

PoE considerations

The switch prioritizes the PoE+ power that it supplies in ascending port order (from port 1 to port 8). If the aggregate power requirements of all attached power devices (PD) exceed the 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.

The following tables describe the power adapter models that are compatible with the GS308PP switch and the PoE classes and switch allocations:

Note: The listed total power budget is the maximum power limit for the switch. Many PDs require less than maximum power, so the aggregate power requirements are lower than the maximum, allowing all eight PoE ports to be active simultaneously.

Power adapters and total power budgets for the GS308PP:

Power adapter model	Power adapter	Total power budget
EPS90W	90W	83W
EPS130W	130W	123W

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

Device class	Standard	Class description	Minimum power allocated to the powered device	Range of power delivered to the powered device
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 yellow, 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 yellow, 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.



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Check the PoE status

Power LED	Left Port LEDs	Right PoE LEDs
 On	 1000 Mbps link	 PoE in use
 Off	 100 or 10 Mbps link	 PoE halted (see PoE troubleshooting)
	  Activity (blinking)	 No PoE use (off)
	 No link (off)	

The switch can supply up to 30W PoE+ (IEEE 802.3at) to each port, with a maximum PoE power budget of total 83W with a 90W power adapter and total 123W with a 130W power adapter across all active PoE+ ports.

The PoE Max LED indicates the status of the PoE budget on the switch:

-  **Solid yellow.** Less than 7W of PoE power is available on the switch.
-  **Blinking yellow.** 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).

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
1 Gbps	Category 5e (Cat 5e) or higher

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.

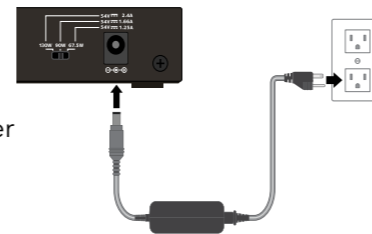
3. Insert the supplied anchors into the wall and tighten the supplied screws with a No. 2 Phillips screwdriver.

Note: 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.

Change the switch's PoE budget

You can move the slider on the back of the switch to increase or decrease the PoE budget. You can increase the PoE budget if you buy a higher wattage power supply. You also can move the slider to a PoE budget that is lower than the power supply wattage. This reduces your switch's power consumption. However, we recommend using the slider setting that matches your power supply.

1. Power down the switch and disconnect the power cord.
2. Move the slider to the setting that corresponds to the wattage of the new power adapter.
3. Connect the power cord and power on the switch.



Specifications

Specification	Description
Network interfaces	8 Gigabit Ethernet RJ-45 ports that support 1G, 100 M, and 10 M 8 PoE/PoE+ ports
Power adapter input	Power cord varies by region.
Power adapter output	The switch supports two power adapters: <ul style="list-style-type: none">• 90W: 54V @ 1.66A• 130W: 54V @ 2.4A
Max PoE budget	The maximum budget for each power adapter is as follows: <ul style="list-style-type: none">• 90W: 83W PoE• 130W: 123W PoE
Dimensions (W x D x H)	9.3 x 4.0 x 1 in. (236 x 102 x 27 mm)
Weight	1.32 lb (0.6 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,

Support

Thank you for purchasing this NETGEAR product. You can visit <https://www.netgear.com/support/> to register your product, get help, access the latest downloads and user manuals, and join our community. We recommend that you use only official NETGEAR support resources.

Si ce produit est vendu au Canada, vous pouvez accéder à ce document en français canadien à <https://www.netgear.com/support/download/>. (If this product is sold in Canada, you can access this document in Canadian French at <https://www.netgear.com/support/download/>.)

For regulatory compliance information including the EU Declaration of Conformity, visit <https://www.netgear.com/about/regulatory/>.

See the regulatory compliance document before connecting the power supply.

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

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