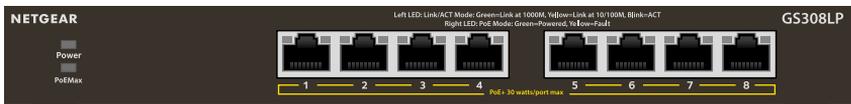


Installation Guide

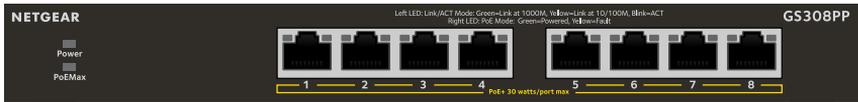
8-Port Gigabit Ethernet PoE+ Unmanaged Essentials Switch with FlexPoE

Model GS308LP



8-Port Gigabit Ethernet High-Power PoE+ Unmanaged Essentials Switch with FlexPoE

Model GS308PP



Package Contents

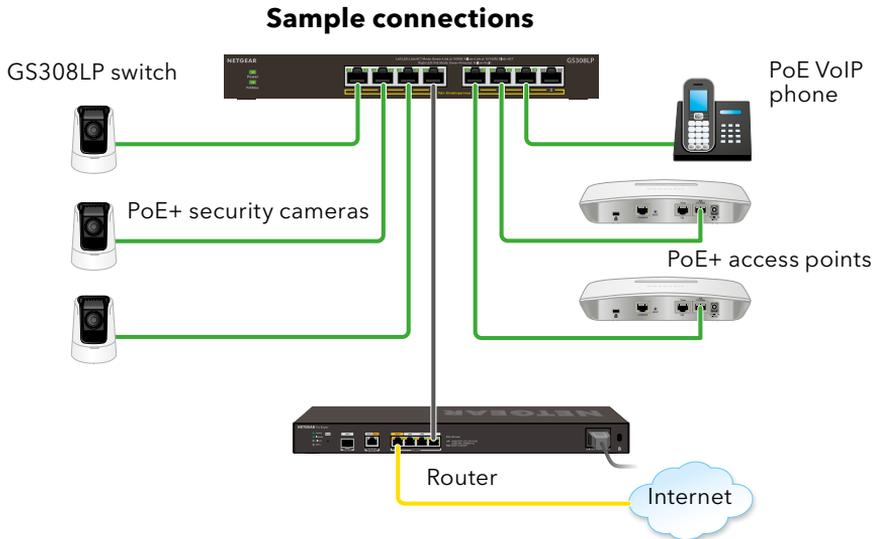
- Switch
- Power adapter: 67.5W (GS308LP), 90W (GS308PP)
- Power cord (varies by region)
- Wall installation kit
- Rubber feet

Step 1. Register the switch

Registration is required for warranty activation and support. For more information, visit netgear.com/about/warranty.

1. From a computer or mobile device that is connected to the Internet, visit my.netgear.com.
2. Log in to your NETGEAR account.
NOTE: If you don't have a free NETGEAR account, you can create one. The My Products page displays.
3. From the menu on the left, select **Register a Product**.
4. In the **Serial Number** field, type the serial number of your switch.
The serial number is 13 digits long. It is printed on the switch label.
5. From the **Date of Purchase** menu, select the date that you purchased the switch.
6. Click the **REGISTER** button.
Your switch is registered to your NETGEAR account.
A confirmation email is sent to your NETGEAR account email address.

Step 2. Connect the switch



1. (Optional) Mount the switch to the wall. For more information, see [Mount the switch to a wall](#).
2. Connect network devices to the ports on the switch using Cat5e (or better) Ethernet cables.
3. Connect any port on the switch to the network (uplink) using a Cat5e (or better) Ethernet cable.
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 a modem.
4. Power on the switch.

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.



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

Step 3. Check the LED status

LED	Description
Power	 Solid green: The switch is powered on and operating normally.
	 Off: Power is not supplied to the switch.
PoE Max (The status of the switch's PoE budget)	 Off: Sufficient (more than 7W of) PoE power is available on the switch.
	 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 For more information, see PoE considerations .
Left port LED	 Solid green: 1000 Mbps link on this port.
	 Blinking green: 1000 Mbps activity on this port.
	 Solid amber: 100 Mbps or 10 Mbps link on this port.
	 Blinking amber: 100 Mbps or 10 Mbps activity on this port.
 Off: No link is detected on this port.	
Right port LED	 Solid green: The port is delivering PoE power
	 Off: The port is not delivering PoE power
	 Solid amber: A PoE fault occurred. For more information, see PoE troubleshooting .

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.

The GS308LP can supply up to 30W PoE+ to each port, with a total maximum PoE power budget of 60W. It can be upgraded to a total maximum PoE budget of 83W or 123W with the purchase of an optional power adapter.

The GS308PP can supply up to 30W PoE+ to each port, with a total maximum PoE power budget of 83W. It can be upgraded to a total maximum PoE budget of 123W with the purchase of an optional power adapter.

Switch model	Power adapter model	Switch PoE budget
GS308LP	EPS67.5W (default model)	60W
	EPS90W (optional model)	83W
	EPS130W (optional model)	123W
GS308PP	EPS90W (default model)	83W
	EPS130W (optional model)	123W

The following table shows the standard power ranges, calculated with the maximum cable length of 328 feet (100 meters). If a device receives insufficient PoE power from the switch, consider using a shorter cable.

Device Class	Compatible PoE Standard	Class Description	Maximum Power Supplied by the Switch	Power Delivered to the Device
0	PoE and PoE+	Default power (full)	15.4W	0.44W-12.95W
1	PoE and PoE+	Very low power	4.0W	0.44W-3.84W

Device Class	Compatible PoE Standard	Class Description	Maximum Power Supplied by the Switch	Power Delivered to the Device
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+	High power	30.0W	12.95W-25.5W

PoE troubleshooting

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

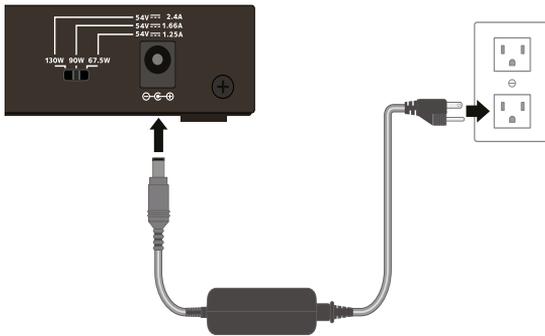
- Make sure that the PoE Max LED is off. If the PoE Max LED is solid amber, disconnect one or more PoE devices to prevent PoE oversubscription. Start by disconnecting the device from the highest-numbered port.
- Make sure that the Ethernet cables are plugged in correctly. For each powered device (PD) 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 PoE power demand of the PD exceeded the maximum level that the switch permits. The maximum level is 15.4W for a PoE connection and 30W for a PoE+ connection.	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 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.

Change the switch's PoE budget

As an option, 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 purchase a higher wattage power adapter. You also can move the slider to a PoE budget that is lower than the power adapter wattage. This reduces your switch's power consumption. However, we recommend using the slider setting that matches your power adapter.

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.



Mount the switch to a wall

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

We recommend that you use the wall-mount screws that are included. The screws are 0.25 in. (6.5 mm) in diameter, 0.86 in. (22 mm) in length.

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 4.25 in. (108 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 0.15 in. (4 mm) of each screw protruding from the wall so that you can insert the screws into the holes on the bottom panel.

NOTE: The GS308LP and GS308PP switch models do not support rack mounting.

Specifications

Specification	Description
Network interfaces	8 PoE/PoE+ Gigabit Ethernet RJ-45 ports that support 1G, 100M, and 10M
Network cable	<ul style="list-style-type: none">• 100 Mbps: Category 5 (Cat 5) or higher rated Ethernet cable• 1 Gbps: 5e (Cat 5e) or higher rated Ethernet cable Maximum distance is 328 feet (100 meters)
Max PoE budget	<ul style="list-style-type: none">• Model GS308LP:<ul style="list-style-type: none">- 67.5W default adapter: 60W- 90W optional adapter: 83W- 130W optional adapter: 123W• Model GS308PP:<ul style="list-style-type: none">- 90W default adapter: 83W- 130W optional adapter: 123W
Power adapter input	Power cord varies by region.
Power adapter output	<ul style="list-style-type: none">• Model GS308LP: 67.5W, 54V @ 1.25A• Model GS308PP: 90W, 54V @ 1.66A.
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	<ul style="list-style-type: none">• Model GS308PP: FCC class A, CB, CE class A, VCCI class A, RCM class A, KC, BSMI• Model GS308LP: FCC class A, CB, CE class A

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Regulatory and Legal

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(If this product is sold in Canada, you can access this document in Canadian French at netgear.com/support/download/.)

For regulatory compliance information including the EU Declaration of Conformity, visit netgear.com/about/regulatory/.

See the regulatory compliance document before connecting the power supply.

For NETGEAR's Privacy Policy, visit netgear.com/about/privacy-policy.

By using this device, you are agreeing to NETGEAR's Terms and Conditions at netgear.com/about/terms-and-conditions. If you do not agree, return the device to your place of purchase within your return period.

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

Applicable to 6 GHz devices only: Only use the device indoors. The operation of 6 GHz devices is prohibited on oil platforms, cars, trains, boats, and aircraft, except that operation of this device is permitted in large aircraft while flying above 10,000 feet. Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.

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NETGEAR, Inc.

NETGEAR INTERNATIONAL LTD



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