



# NETGEAR GS108PP 8-Port PoE/PoE+ Gigabit Unmanaged Switch Installation Guide

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# NETGEAR® BUSINESS

8-Port PoE/PoE+ Gigabit Unmanaged Switch  
GS108LP and GS108PP  
Installation Guide



GS108LP

GS108PP

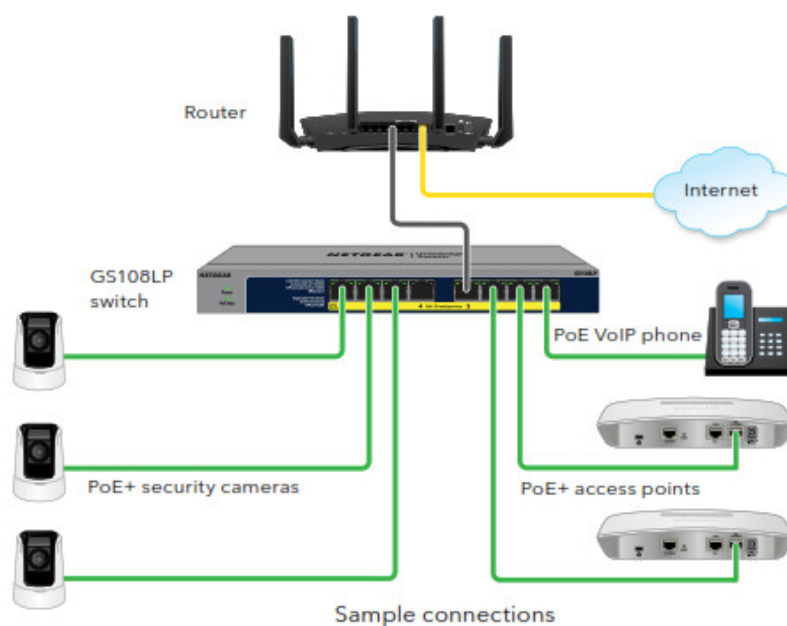
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## Package Contents

- Switch
- Power adapter
- Power cord (varies by region)
- Wall installation kit
- Rubber feet
- Rack-mount kit
- Installation guide

## Connect the equipment.













## Connect to power



## LED 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)	

## PoE Max LED

The maximum PoE power that the switch can deliver to all attached powered devices (PDs) is 120 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 120 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



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**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
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.  
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.

## 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	8 Gigabit Ethernet RJ-45 ports that support 1 G, 100 M, and 10 M 8 PoE/PoE+ ports
Power adapter input	Power cord varies by region.
Power adapter output	The switch supports three power adapters: <ul style="list-style-type: none"><li>•130W: 54V @ 2.4A (included with the GS108PP switch)</li><li>•90W: 54V @ 1.66A</li><li>•67.5W: 54V @ 1.25A (included with the GS108LP switch)</li></ul>
Max PoE budget	The maximum budget for each power adapter is as follows: <ul style="list-style-type: none"><li>•130W: 120W PoE (default for the GS108PP switch)</li><li>•90W: 83W PoE</li><li>•67.5W: 60.5W PoE budget (default for the GS108LP switch)</li></ul>
Dimensions (Wx Dx 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, EAC



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## Get the Free NETGEAR Insight App

You can use the NETGEAR Insight app to register your switch.

1. Download the NETGEAR Insight app from your iOS or Android mobile device.



2. Connect your mobile device to the WiFi network of the router or access point.
3. Open the NETGEAR Insight app to log in or create an account.
4. Scan the bar code or enter the serial number of the switch located on the product label or product packaging.

For information about how to connect a NETGEAR Insight managed switch to an existing network, visit [kb.netgear.com/000044341](https://kb.netgear.com/000044341).

## Support

Thank you for purchasing this NETGEAR product. You can visit [www.netgear.com/support](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.

(If this product is sold in Canada, you can access this document in Canadian French at <http://downloadcenter.netgear.com/other/>.)


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.



## Documents / Resources

	<a href="#">NETGEAR GS108PP 8-Port PoE/PoE+ Gigabit Unmanaged Switch</a> [pdf] Installation Guide GS108PP 8-Port PoEPoE Gigabit Unmanaged Switch, GS108PP, 8-Port PoEPoE Gigabit Unmanaged Switch, Unmanaged Switch, Switch
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## References

- [N Download Center | Downloads and Documentation | NETGEAR](#)
- [N How do I discover, add, and register switches, access points, and Orbi Pro WiFi Systems in Insight? - NETGEAR Support](#)
- [N EU Declarations of Conformity - NETGEAR Support](#)
- [N Regulatory | NETGEAR](#)
- [N NETGEAR Support | NETGEAR](#)