NETGEAR GS305P 5-Port PoE Gigabit Ethernet Unmanaged Switch Installation Guide

NETGEAR®

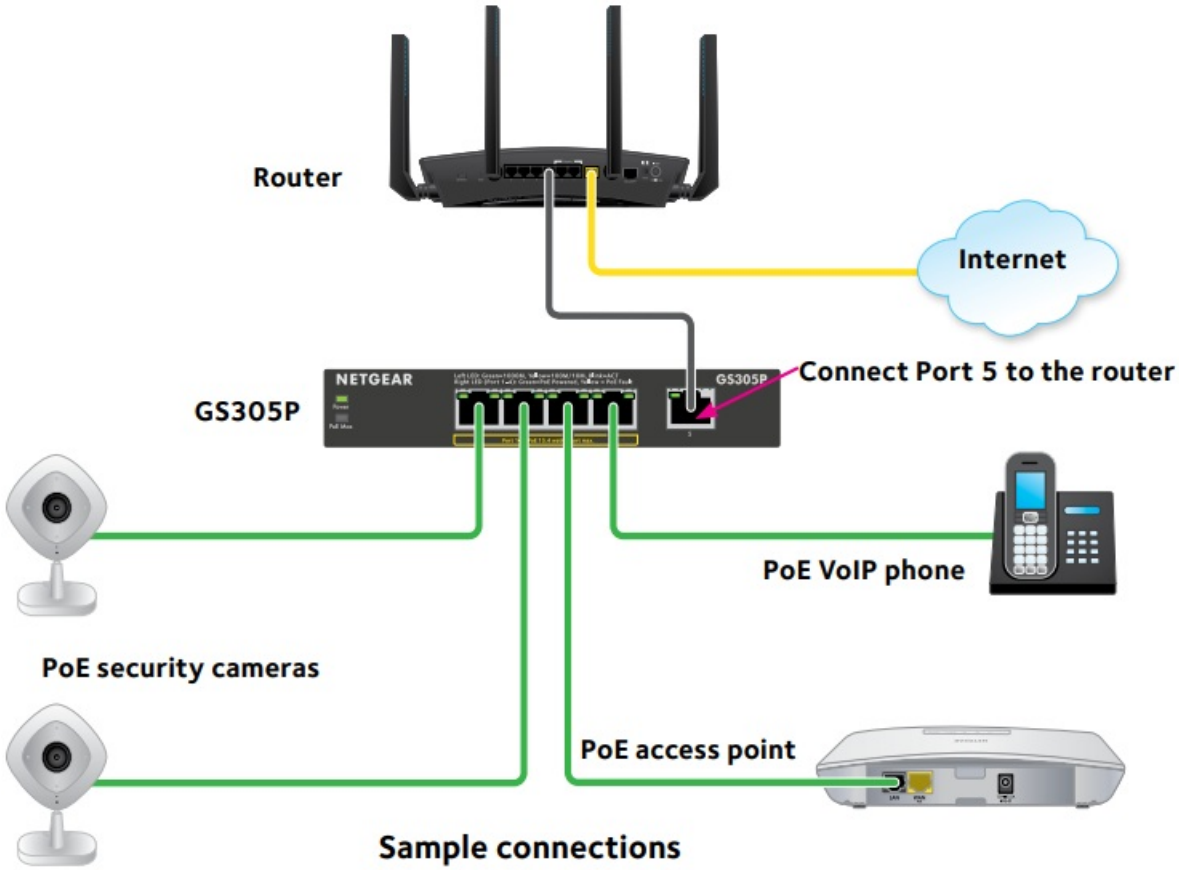
Installation
5-Port PoE Gigabit Ethernet Unmanaged Switch
GS305P

Contents

Package Content

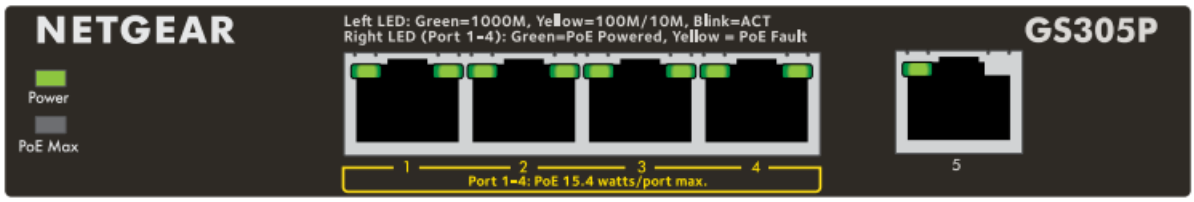
- Switch
- Power adapter (localized to the country of sale)
- Wall installation kit
- Rubber feet
- Installation guide

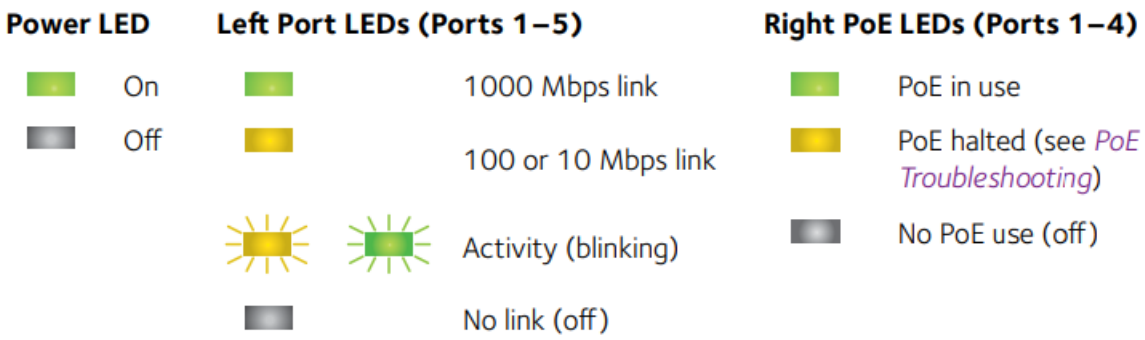
Step 1. Connect the equipment.
Connect Port 5 on the switch to your router. Connect Ports 1–4 on the switch to your power over Ethernet (PoE) or non-PoE devices.



Step 2. Connect to power.

Step 3. Check the status.





PoE Max LED

The maximum PoE power that the GS305P switch can deliver to all attached powered devices (PDs) is 55.5 Watts total, with a maximum power to each port of 15.4 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.

	Less than 7W of PoE power is available on the switch (the LED is on).
	The PoE Max LED was active in the previous two minutes (the LED is blinking).
	Suffcient (more than 7W of) PoE power is available on the switch (the LED is off).

PoE Considerations

The switch prioritizes the power that it supplies in ascending port order (from Port 1 to port 4), up to its total power budget (55.5 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 l evel 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 swit ch permits.	Restart the switch to see if the condition resolve s itself

Specifications

Specification	Description
Network interface	R1-45 connector for 10BASE-T, 100BASE-TX, or 1000BASE-T
Network cable	Category 5 (Cat 5) or better Ethernet cable
Ports	5, of which 4 are PoE ports
Power adapter	48V @ 1.25 A DC input
Power consumption	4.5W max. (no PoE); 60W max (with PoE)
PoE power budget	Ports 1-4: 15.4W maximum per PoE port, up to 55.5W total PoE power
Weight	0.9 lb (0.41 kg)
Dimensions (W x D x H)	6.2 in. x 4.0 in. x 1.1 in. (58 mm x 101 mm x 29 mm)
Operating temperature	32-104°F (0-40°C)
Operating humidity	10%-90% relative humidity, noncondensing

Support

Thank you for selecting NETGEAR products. You can visit **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 offcial NETGEAR support resources.
For the current EU Declaration of Conformity, visit **http://support.netgear.com/app/answers/detail/a_id/11621/**.
For regulatory compliance information, visit **http://www.netgear.com/about/regulatory/**.

See the regulatory compliance document before connecting the power supply.

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Documents / Resources

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