

# Installation Guide

5-Port Gigabit Ethernet PoE+ Unmanaged Switch  
GS305Pv2 (63W)

5-Port Gigabit Ethernet PoE+ Unmanaged Switch  
GS305PP (83W)



## Package contents

- Switch model GS305Pv2 or GS305PP
- DC power adapter
- Detachable power cable (varies by region)
- Wall-mount kit screws
- Four rubber footpads
- Installation guide

**Note:** We recommend that you use Category 5e (Cat 5e) cable or higher for Gigabit Ethernet connections.

## 1. Register with the NETGEAR Insight app

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

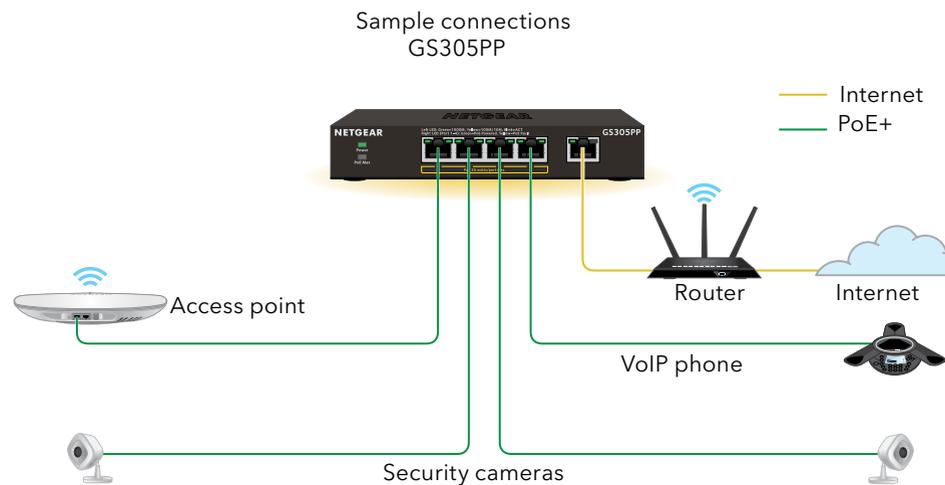


2. Set up a NETGEAR account if you do not have one.
3. Tap the menu in the upper-left corner.
4. Tap **REGISTER ANY NETGEAR DEVICE**.
5. Use the camera on your mobile device to scan the serial number bar code, or enter the serial number located on the bottom of the switch.
6. Tap **GO**.

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.

## 2. Connect 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 <https://kb.netgear.com/000057103> for safety and warning information.

## 3. Check the LEDs

When you connect the power adapter to the switch and plug it into an electrical outlet, the LEDs indicate the status.

The GS305Pv2 and GS305PP provide PoE+ or PoE power on ports 1-4 up to 30W PoE to each port, with a PoE power budget of 63W and 83W respective to each model across all active PoE ports.

LED	Description
Power	<ul style="list-style-type: none"> <li> <b>On.</b> The switch is receiving power.</li> <li> <b>Off.</b> The switch is not receiving power.</li> </ul>
Ports 1-5 left port	<ul style="list-style-type: none"> <li> <b>On.</b> 1000 Mbps link on this port.</li> <li> <b>On.</b> 100 Mbps or 10 Mbps link on this port.</li> <li> <b>Blinking.</b> 1000 Mbps activity on this port.</li> <li> <b>Blinking.</b> 100 Mbps or 10 Mbps activity on this port.</li> <li> <b>Off.</b> No link is detected on this port.</li> </ul>
Ports 1-4 right port	<ul style="list-style-type: none"> <li> <b>On.</b> PoE is in use.</li> <li> <b>On.</b> PoE fault.</li> <li> <b>Off.</b> PoE is not in use on this port.</li> </ul>
PoE Max	<p>The PoE Max LED indicates the status of the PoE budget on the switch:</p> <ul style="list-style-type: none"> <li> <b>Off.</b> Sufficient. More than 7W of PoE power is available.</li> <li> <b>On.</b> Less than 7W of PoE power is available.</li> <li> <b>Blinking.</b> At least once during the previous two minutes, less than 7W of PoE power was available.</li> </ul>

## PoE considerations

The PoE and PoE+ power supplied by the switch is prioritized in ascending port order (from port 1 to port 4), with a total power budget of 63W for the GS305Pv2, and 83W for the GS305PP switch. 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, potentially allowing all four PoE ports to be active simultaneously.

You can override the detected device class and specify the power allocation for the device connected to each port. The following table shows the standard power ranges with no overrides applied, and calculated with the maximum cable length of 328 feet (100 meters).

Device Class	Standard	Class Description	Power Reserved by the Device	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
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

If a device receives insufficient PoE power from the switch, consider attaching a shorter cable.

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## PoE troubleshooting

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

- If the PoE Max LED is yellow, disconnect one or more PoE devices to prevent PoE oversubscription. Start by disconnecting the device from the highest-numbered port.
- For each powered device (PD) that is connected to the switch, the associated right port LED on the switch lights solid green. If the right port LED lights yellow, a PoE fault occurred because of one of the conditions 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. The maximum level is 15.4 for a PoE connection or 30W for a PoE+ connection	
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.

## Mount the switch on a wall

We recommend that you use the wall-mount screws that came with the switch.

1. Locate the two mounting holes on the bottom panel of the switch.
2. Mark and drill two mounting holes in the wall.
3. The two mounting holes must be 1.53 in. (38.9 mm) apart, center-to-center. Insert the supplied anchors into the wall and tighten the 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.

**Note:** GS305PP screws are 4.2 mm in diameter, 25 mm in length.

## Support and Community

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You can also check out our NETGEAR Community for helpful advice at [community.netgear.com](https://community.netgear.com).

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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.

For NETGEAR's Privacy Policy, visit <https://www.netgear.com/about/privacy-policy>.

By using this device, you are agreeing to NETGEAR's Terms and Conditions at <https://www.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*.

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