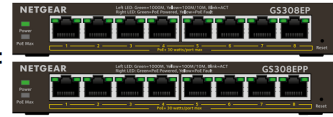**Manuals+** — User Manuals Simplified.

NETGEAR®
GS308EP Gigabit
Smart Managed
Plus Switch

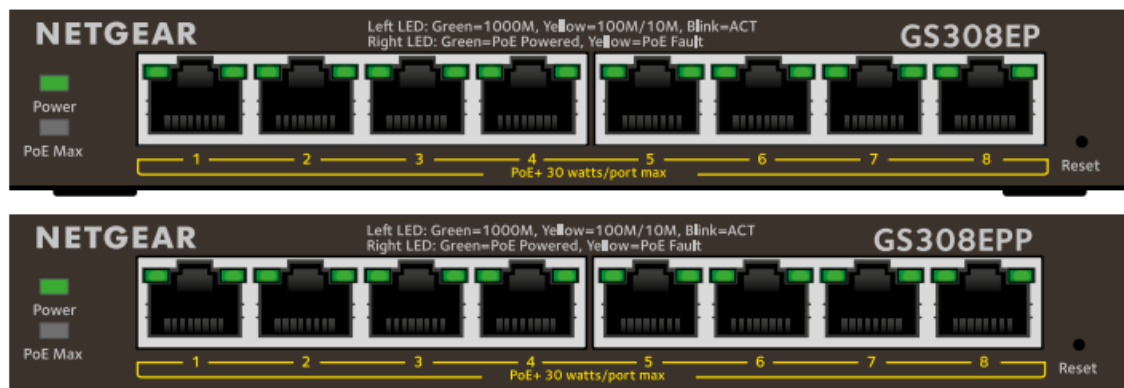# NETGEAR GS308EP Gigabit Smart Managed Plus Switch Installation Guide

Contents

NETGEAR®

NETGEAR GS308EP Gigabit Smart Managed Plus Switch

Product Usage Instructions

- Visit **my.netgear.com** from a computer or mobile device connected to the Internet.
- Log in to your NETGEAR account or create one if you don't have it.
- Select "Register a Product" from the menu on the left.
- Enter the serial number of your switch and the purchase date.
- Click on the REGISTER button to complete the process.
- Follow these steps to connect the switch:
- Use Category 5e (Cat 5e) or higher-rated cables for Gigabit Ethernet connections.
- Indoor use only. For outdoor connections, use proper grounding, surge protection, and Ethernet surge protector.
- Considerations regarding Power over Ethernet (PoE):
- If power requirements exceed budget, higher-numbered port PDs are disabled first.
- 802.3at PDs may require less power than the maximum limit.

FAQ

- **Q: Can I use this switch for outdoor connections?**
  - **A:** The switch is designed for indoor use only. For outdoor connections, proper grounding, surge protection, and Ethernet surge protectors are necessary.
- **Q: How can I check if my switch is registered?**
  - **A:** Visit **my.netgear.com** and log in to your account to verify your registered products under "My Products."

Package Contents

- NETGEAR 8-Port Gigabit Ethernet PoE+ Easy Smart Managed Essentials Switch
- Power adapter (power cable varies by region)
- Wall installation kit
- Rubber feet
- Installation guide

Register your 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.

   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.
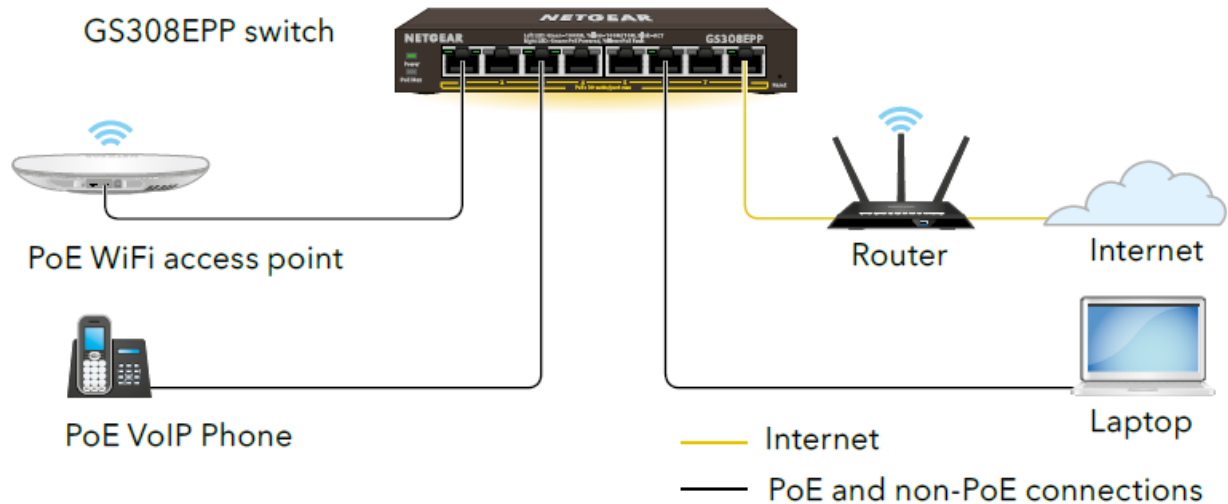
6. Click the REGISTER button.

   Your switch is registered to your NETGEAR account.

   A confirmation email is sent to your NETGEAR account email address.

Connect the switch

Sample connections

NOTE: We recommend that you use a Category 5e (Cat 5e) cable or higher-rated cable for Gigabit Ethernet connections.
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.
WARNING: Before connecting this switch to outdoor cables or devices, see **kb.netgear.com/000057103**/ for safety and warranty information.

Check the LEDs

- When you connect the power cord to the switch and plug it into an electrical outlet, the LEDs indicate the 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.
		Solid yellow. Less than 7W of PoE power is available.
		Blinking yellow. At least once during the previous two minutes, less than 7W of PoE power was available.
Left port LED		**Solid green**. 1000 Mbps link on this port.
		Blinking green. 1000 Mbps activity on this port.
		Solid yellow. 100 Mbps or 10 Mbps link on this port.
		Blinking yellow. 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 yellow. A PoE fault occurred.

Discover and access the switch

NETGEAR Easy Smart Managed Essentials switches support Universal Plug and Play (UPnP) discovery. You can use your computer's network settings to discover the switch. Alternatively, you can download the NETGEAR Discovery Tool (NDT).

The NETGEAR Discovery Tool lets you discover the switch in your network and access the device user interface (UI) of the switch from a Mac, Windows-based, or Linux-based computer.

To install the NETGEAR Discovery Tool, discover the switch in your network, access the switch, and discover the switch IP address:

1. To download the NDT, visit **https://www.netgear.com/support/product/netgear-discovery-tool.aspx**.

   Depending on the computer that you are using, download either the Mac or Windows version.

2. Temporarily disable the firewall, Internet security, antivirus programs, or all of these on the computer that you use to configure the switch.

3. Unzip the NDT files, and click or double-click the Setup.exe file (for example, NDT-1.2.103.exe) to install the program on your computer.

   You might see the tool icon appear on your Mac dock or Windows desktop.

4. Reenable the security services on your computer.

5. Connect the switch to your router or network.

6. Power on the switch.

7. Connect your computer to the same network as the switch.

8. Open the NDT.

   The initial page displays a menu and a button.

9. From the Choose a Connection menu, select the network for this switch.

10. Click the Start Searching button.

The NDT displays the IP addresses of the switches that it discovers.

11. Click the ADMIN PAGE button.

    The login page or login window of the local browser user interface opens.

12. Enter the default password that is printed on the label of the switch.

13. If prompted, enter a new admin password for the switch.

    The Switch Information page displays, and shows the IP address assigned to the switch.

14. Save the password and IP address for future use.

PoE considerations

- The PoE and PoE+ power supplied by the switch is prioritized in ascending port order: Ports 1–4 support PoE and PoE+ with a total power budget of 62W for the GS308EP and 123W for the GS308EPP.
- 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 connected to the higher-priority, lower-numbered ports are supported first.
- A PD listed as an 802.3at PoE-powered device does not necessarily require the maximum power limit of the specification. Many PDs require less power, potentially allowing more PoE ports to be active simultaneously.
- The following table shows the standard power ranges calculated with the maximum cable length of 328 feet (100 meters).

Device class s	Standard	Class description	Power reserved by the device	Power delivered by the 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

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

PoE troubleshooting

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

- If the PoE Max LED is solid yellow, disconnect one or more PoE devices to prevent PoE oversubscription.
- For each powered device (PD) that is connected to the switch, the associated PoE LED on the switch lights solid green. If the PoE LED lights solid yellow, a PoE fault occurs and PoE is halted because of one of the conditions listed in the following table.

NOTE: For PoE specifications, see **https://kb.netgear.com/000062481**.

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 15.4W for a PoE connection and 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 are included.

1. Locate the two mounting 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 2.95 in. (75 mm) apart, center-to-center.
3. 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: The screws are 6.5 mm in diameter, 16 mm in length.

Support and Community

- Visit **netgear.com/support** to get your questions answered and access the latest downloads.
- You can also check out our NETGEAR Community for helpful advice at **community.netgear.com**.

Regulatory and Legal

- 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.
- 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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Documents / Resources

	NETGEAR GS308EP Gigabit Smart Managed Plus Switch [pdf] Installation Guide GS308EP, GS308EPP, GS308EP Gigabit Smart Managed Plus Switch, GS308EP, Gigabit Smart Managed Plus Switch, Smart Managed Plus Switch, Managed Plus Switch, Plus Switch, Switch

References

- **English - NETGEAR Communities**
- **Do I need to use a surge protector with my NETGEAR Business device? - NETGEAR Support**
- **NETGEAR - Common Account Management**
- **NETGEAR Support | NETGEAR**
- **kb.netgear.com/000062481**
- **Download Center | Downloads and Documentation | NETGEAR**
- **NETGEAR Discovery Tool | Apps and Services | NETGEAR Support**
- **User Manual**