NETGEAR
BUSINESS

Installation Guide

24-port Gigabit Ethernet Smart Managed Plus Switch with PoE+ (190W)

Model GS724EP

Package contents

- NETGEAR Gigabit Ethernet Smart Managed Plus Switch
- Power cord (varies by region)
- Rack-mount installation kit
- Rubber feet
- Installation guide

1. Register the switch

1. From a computer or mobile device that is connected to the Internet, visit *http://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.

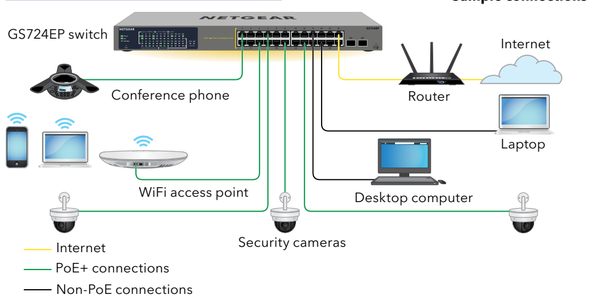
   The serial number is 13 digits long. It is printed on the switch label.
5. From the **Date of Purchase** menu, select the date that you purchased the switch.
6. Click the **REGISTER** button.

   Your switch is registered to your NETGEAR account.

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

2. 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.

To use the SFP port, you must insert an SFP transceiver module, which you can purchase from NETGEAR.

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 *https://kb.netgear.com/000057103* for safety and warranty information.

3. 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 LED	**Solid green**: The switch is powered on and operating normally. **Off**. Power is not supplied to the switch.
Fan LED	**Solid green**: The internal fan is operating normally. **Solid amber**. The internal fan failed.
PoE Max LED (The status of the switch's PoE budget.)	**Off**: Sufficient (more than 7W of) PoE power is available. **Solid amber**: Less than 7W of PoE power is available. **Blinking amber**: At least once during the previous two minutes, less than 7W of PoE power was available.
Speed and activity port LED (Upper port LED)	**Solid green**:1000 Mbps link on the port. **Blinking green**: 1000 Mbps activity on the port. **Solid amber**: 100 Mbps or 10 Mbps link on the port. **Blinking amber**: 100 Mbps or 10 Mbps activity on the port. **Off**. No link is detected on the port.
PoE port LED (Lower port LED)	**Solid Green**: The port is delivering PoE power. **Off**: The port is not delivering PoE power. **Solid amber**: A PoE fault occurred on the port.

Note: All port LEDs are located together on the left of the front panel.

4. Discover and access the switch

The NETGEAR Switch Discovery Tool (NSDT) lets you discover the switch in your network and access the local browser interface of the switch from a Mac or a Windows-based computer.

To install the NSDT, discover the switch in your network, access the switch, and discover the switch IP address:

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

   Download the Windows, Mac, or Linux 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 NSDT files, and click or double-click the executable file (for example, NDST-1.2.102.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. Power on the switch.
6. Connect your computer to the same network as the switch.
7. Open the NSDT.

   The initial page displays a menu and a button.
8. From the **Choose a Connection** menu, select the network for this switch.
9. Click the **Start Searching** button.

   The NSDT displays the IP addresses of the switches that it discovers.
10. Click the **ADMIN PAGE** button for the switch.

    The login page or login window of the local browser user interface (UI) opens.
11. Enter the default password that is printed on the switch label.

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

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

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

    You can now configure and monitor your switch.

Mount the switch in a rack

You can mount the switch in a standard 19-inch (48.26-centimeter) network equipment rack. Use the 19-inch rack-mount installation kit supplied with the switch.

1. Attach a supplied mounting bracket to each side of the switch.
2. Insert the supplied screws through each bracket and into the bracket mounting holes in the switch.
3. Tighten the screws with a No. 2 Phillips screwdriver to secure each bracket.
4. Align the mounting holes in the brackets with the holes in the rack, and insert the supplied two pan-head screws with nylon washers through each bracket and into the rack.
5. Tighten the screws with a No. 2 Phillips screwdriver to secure the mounting brackets to the rack.

PoE considerations

PoE power supplied by the switch is prioritized in ascending port order (from port 1 to port 24). The switch can supply a total of 190W across all active PoE+ ports.

The following table shows the standard power ranges without overrides applied, 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–13.00W
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–13.00W
4	PoE+	High power	30.0W	13.0W–25.5W

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 occurred and PoE halted 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 15.4W 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.

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.

NETGEAR, Inc.
350 East Plumeria Drive
San Jose, CA 95134, USA

NETGEAR INTERNATIONAL LTD
Floor 1, Building 3
University Technology Centre
Curraheen Road, Cork,
T12EF21, Ireland