Installation Guide

10-Port Gigabit Ethernet Ultra60 PoE++ Smart Managed Pro Rackmount Switch with 1 SFP and 1 Copper Uplink GS710TUP

Package contents:
- NETGEAR GS710TUP switch
- Detachable power cord (varies by region)
- Rubber footpads for tabletop installation
- Rack mount kit & rack installation instructions

Note: For information about installation, see the hardware installation guide, which you can download by visiting www.netgear.com/support/

Connect the switch

For ports 1–8, the switch can supply up to 30W PoE+ (IEEE 802.3at) to each port. The maximum PoE power budget across all active PoE+ ports is 480W. The PoE Max LED indicates the status of the PoE budget on the switch:
- Off: More than 7W of PoE power is available.
- Solid yellow: Less than 7W of PoE power is available.
- Blinking yellow: At least one of the previous two minutes, less than 7W of PoE power was available.

Check the PoE status

1. Connect the switch to the RJ-45 ports (1–8) on the switch front panel. Use Category 5e (Cat 5e) Ethernet cables terminated with RJ-45 connectors to make the connection.
2. Connect port 9 (the RJ-45 copper uplink port) or port 10 (the SFP+ uplink port) on the switch to a network that includes a DHCP server.
3. Power on the switch and wait two minutes.
4. If you do not have a NETGEAR account, tap Create NETGEAR Account and follow the onscreen instructions.
5. Decide if you want to manage and monitor the switch from the device UI or remotely from the cloud using NETGEAR Insight:
   a. Open a web browser from a computer connected to the same network as your switch.
   b. Use another method to discover the switch (see Using another method to discover the switch).

   Log in to the device UI to configure the switch

   You can use the switch as a plug-and-play device or you can change the settings by logging in to the device user interface (UI).

   1. Open a web browser from a computer connected to the same network as your switch.
   2. In the address field of your web browser, enter the IP address of the switch.
   3. To discover the IP address of the switch, use the NETGEAR Insight app or another discovery method (see Using another method to discover the switch).
   4. If the switch is connected to the Internet, the Register to activate your warranty page displays. However, if you already registered the switch with the NETGEAR Insight app, the device UI login page displays, and you can continue with Step 4.
   5. Follow the onscreen instructions to complete the registration of the switch. During the process, decide if you want to manage and monitor the switch from the device UI or remotely from the cloud using NETGEAR Insight:
      b. Insight Cloud Portal or Insight app: Manage with Insight.

   Use another method to discover the switch

   The NETGEAR Switch Discovery Tool and the Smart Control Center let you discover the IP address in your network:
   - NETGEAR Switch Discovery Tool (NSDT): You can use a Mac or Windows-based computer on the same network as the switch. To download this tool, visit www.netgear.com/support/product/switch/discovery-tool.aspx.
   - Smart Control Center (SCC): You can use a Windows-based computer on the same network as the switch. To download the SCC, visit www.netgear.com/support/product/SCC.

   Use the NETGEAR Insight app to discover the switch

   If your switch is mobile device are connected to the same network, you can use the NETGEAR Insight app to discover the switch IP address in your network. Regardless of your setup, you can use the Insight app to register the switch and activate your warranty.
   1. From your mobile device, log in to the NETGEAR Insight app using the same NETGEAR account and tap LOG IN:
      a. Option 1: Your switch and mobile device are connected to the same network.
      b. Option 2: Your switch and mobile device are not connected to the same network.

   Discover the switch in your network

   Depending on your setup, you can use the NETGEAR Insight app to discover the switch IP address in your network, or you can use other discovery methods.

   Use NETGEAR Insight app to discover the switch

   If your switch is mobile device are connected to the same network, you can use the NETGEAR Insight app to discover the switch IP address in your network. Regardless of your setup, you can use the Insight app to register the switch and activate your warranty.
   1. From your mobile device, log in to the NETGEAR Insight app using the same NETGEAR account and tap LOG IN.
      a. Option 1: Your switch and mobile device are connected to the same network.
      b. Option 2: Your switch and mobile device are not connected to the same network.

   For more information about using the switch, see the hardware installation guide, which you can download by visiting www.netgear.com/support/.
Insight app, change the management mode in the device UI.

By default, the management mode in the device UI is set to Directly Connect to Web Browser. If you did not register the switch within 30 days of purchase, your warranty entitlement might be affected. If you did not yet register the switch with the NETGEAR Insight app, click one of the following buttons:

- **Register Your Device**: This button displays if the switch is connected to the Internet. You can register the switch and activate the warranty.
- **Enter Registration Key**: If you obtained a registration key, for example by registering your switch on the MyNETGEAR.com site, you can enter the key and then log in to the device UI.
- **Skip Registration and Access the UI**: Registration is not mandatory, but we highly recommend it. If you do not register the switch within 30 days of purchase, your warranty entitlement might be affected.

3. If you did not yet register the switch, go to **Register Your Device** page.
4. Select the **NETGEAR Insight Mobile App and Insight Cloud Portal** radio button.
5. In the pop-up window, click the **OK** button.
6. In the pop-up window, click the **OK** button.
7. Click the **Apply** button.
8. If you registered the switch, you now must enter the Insight network password for the Insight Cloud Portal or Insight app. We recommend that you use the Insight Cloud Portal.

**Note:** You can still log in to the device UI and access a limited menu, instead of the device admin password, you now must enter the Insight network password for the Insight network location to which you added the switch.

The following table shows the standard power ranges without overrides applied. The PoE power supplied by the switch is prioritized in ascending port order (from port 1 to port 8), with a total power budget of 480W 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.

<table>
<thead>
<tr>
<th>Device class</th>
<th>standard</th>
<th>Class description</th>
<th>Maximum power supplied by the switch</th>
<th>Power delivered to the device</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 PoE, 0 PoE+, 1 PoE+</td>
<td>Default power (full)</td>
<td>15.6W</td>
<td>0.468-13.0W</td>
<td></td>
</tr>
<tr>
<td>0 PoE, 0 PoE+, 1 PoE+</td>
<td>Very low power</td>
<td>4.0W</td>
<td>0.468-3.6W</td>
<td></td>
</tr>
<tr>
<td>2 PoE, 2 PoE+, 3 PoE+</td>
<td>Low power</td>
<td>7.0W</td>
<td>3.84-6.49W</td>
<td></td>
</tr>
<tr>
<td>3 PoE, 3 PoE+, 4 PoE+</td>
<td>Mid power</td>
<td>15.4W</td>
<td>6.49-13.0W</td>
<td></td>
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<tr>
<td>4 PoE, 4 PoE+, 5 PoE+</td>
<td>High power</td>
<td>30.0W</td>
<td>13.0-25.5W</td>
<td></td>
</tr>
<tr>
<td>5 PoE++</td>
<td>Ultra high power</td>
<td>45.0W</td>
<td>25.5-40W</td>
<td></td>
</tr>
<tr>
<td>6-8 PoE++</td>
<td>Ultra high power</td>
<td>60.0W</td>
<td>40.0-51.0W</td>
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### PoE troubleshooting

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

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.

<table>
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<th>PoE Fault Condition</th>
<th>Possible Solution</th>
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<td>The PoE power demand of the PD exceeded the maximum limit set by the switch (the maximum limit is 15.6W for a PoE connection, 30W for a PoE+ connection and 45W for PoE++).</td>
<td>Restart the switch to see if the condition resolves itself. Check the condition of the PD, restart the PD by disconnecting and reconnecting the PD, or try a shorter cable.</td>
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<tr>
<td>The problem is most likely with the attached PD. Check the condition of the PD, restart the PD by disconnecting and reconnecting the PD, or try a shorter cable.</td>
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### Change the management mode to Insight

**Note:** Follow this procedure only if you want to change the management mode to NETGEAR Insight.

By default, the management mode in the device UI is set to Directly Connect to Web Browser Interface, which lets you configure the switch from the device UI.

To manage the switch remotely from the cloud with the NETGEAR Insight Cloud Portal or Insight app, change the management mode in the device UI:

1. Open a web browser from a computer or tablet connected to the same network as your switch.
2. In the address field of your web browser, enter the IP address of the switch.
3. Enter your device admin password.
4. This is the password that you specified the first time that you logged in to the device UI.
5. Click the **Go** button.
6. Select the **Insight registration information page display.**
7. In the pop-up window, click the **OK** button.
8. Click the **Apply** button.
9. In the pop-up window, click the **OK** button.
10. Your settings are saved.

The first time that you change the management mode to Insight, the switch is reset to its factory default settings, enter that information again, configure the switch using the Insight app.

**Note:** If you did not yet register the switch with the Insight Cloud Portal or Insight app, we recommend that you use the Insight Cloud Portal.

You can still log in to the device UI and access a limited menu, instead of the device admin password, you now must enter the Insight network password for the Insight network location to which you added the switch.

### PoE considerations

PoE power supplied by the switch is prioritized in ascending port order (from port 1 to port 8), with a total power budget of 480W 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.

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