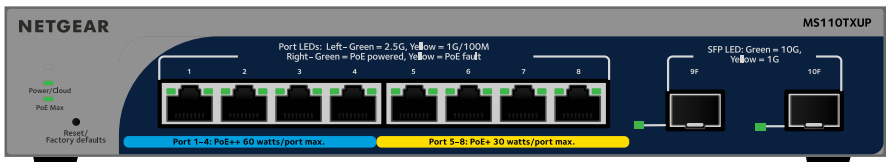
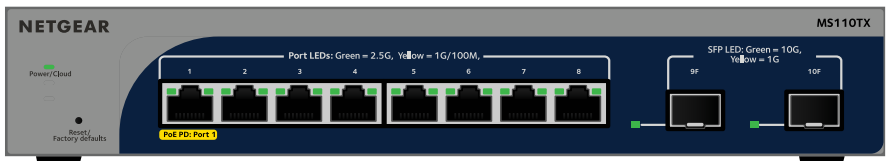


Installation Guide

8-Port Multi-Gigabit 2.5G Ethernet
Smart Switch with 2 10G SFP+ Ports
MS110TX

8-Port Ultra60 PoE++ Multi-Gigabit 2.5G
Ethernet Smart Switch with 2 10G SFP+ Ports
MS110TXUP



Package contents

- NETGEAR MS110TX or MS110TXUP switch
- Power adapter
- Detachable power cord (MS110TXUP only, varies by region)
- Rubber footpads for tabletop installation
- Rack-mount kit for rack installation
- Documentation download flyer

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

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 MyNETGEAR.com.
2. Log in to your NETGEAR account.

NOTE: If you don't have a free NETGEAR account, you can create one.

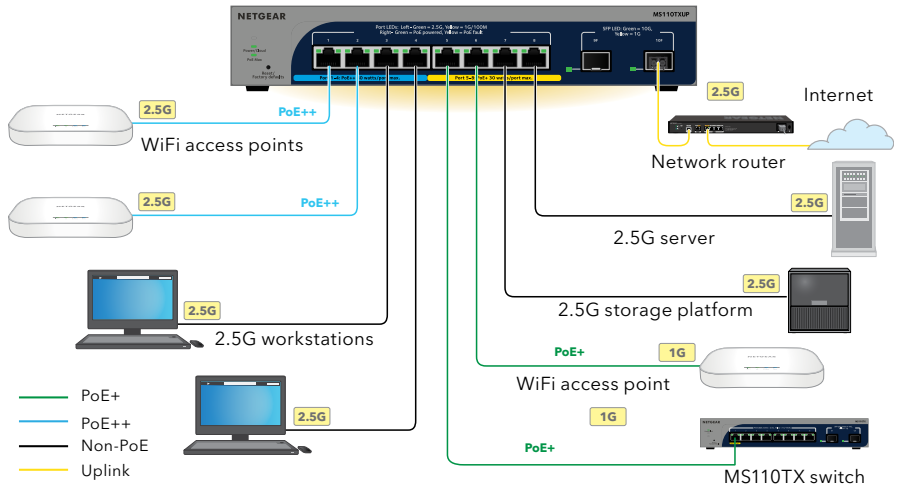
The Your Registered Products page displays.

3. Click the **REGISTER NEW PRODUCT** button.
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 **PURCHASE DATE** menu, select the date that you purchased the switch.
6. Click the **REGISTER** button.
7. Your switch is registered to your NETGEAR account. A confirmation email is sent to your NETGEAR account email address.

Connect the switch

Sample connections

MS110TXUP 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 each 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.

1. Connect devices 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 1G and 2.5G connections.

2. Connect one port on the switch to a network that includes a DHCP server such as a router.

NOTE: In a small office or home office network, connect the switch to the LAN port of a router that is connected to a modem, or to a gateway.

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

CAUTION: If you insert a 10G copper module in an SFP+ port, do not insert any 10G copper module in the other SFP+ port.

3. Power on the switch and wait two minutes.

If you connected the switch to a network with a DHCP server, the switch is automatically assigned a new IP address.
(The default switch IP address is 192.168.0.239.)

Check the PoE status (MS110TXUP only)

Model MS110TXUP can supply PoE++ power on ports 1-4, with up to 60W PoE++ (IEEE 802.3bt) to each port, and PoE+ power on ports 5-8 with up to 30W PoE+ (IEEE 802.3at) to each port. The MS110TXUP switch has a total power budget of 230W across all active PoE+ and PoE++ ports.

The PoE Max LED indicates the status of the PoE budget on the switch:

- **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.

Discover and manage the switch

To access and manage your switch, use one of the methods in this table:

A	NETGEAR Discovery Tool and standalone local management: See A. Use the NETGEAR Discovery Tool to discover the switch and manage the switch over the device UI
B	NETGEAR Insight Cloud Portal or NETGEAR Insight app remote management: See B. Use NETGEAR Insight to discover and manage the switch

NOTE: For more information, see the instructions in the user manual. You can download the manual from the NETGEAR Download Center at netgear.com/support/enterprise/. The QR code for the NETGEAR Download Center is shown at the right. For more information on using Insight, see kb.netgear.com/000044336.



A. Use the NETGEAR Discovery Tool to discover the switch and manage the switch over the device UI

Use the NETGEAR Discovery Tool to discover the switch in your network

The NETGEAR Discovery Tool (NDT) lets you discover the IP address of the switch in your network from a Mac or Windows-based computer connected to the same network as the switch. To download this tool, visit netgear.com/support/product/netgear-discovery-tool.aspx.

Use the switch device UI to manage 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 or tablet connected to the same network as your switch. You can use a wired or WiFi connection.
2. In the address field of your web browser, enter the switch IP address that you discovered in [Use the NETGEAR Discovery Tool to discover the switch in your network](#).
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.

3. If you did not yet register the switch with the NETGEAR Insight app, click one of the following buttons:
 - **Register Your Device:** This tab displays if the switch is connected to the Internet. You can register the switch and activate the warranty. For information about the many benefits of registering your switch, visit netgear.com/why-register/.
 - **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.
4. If prompted, enter the default device admin password, which is **password**, and click the **Login** button.
5. If the Change Default Password page displays, specify and confirm a new device admin password, click the **Submit** button, and log in again using your new password.

The System Information page displays. You can now configure the switch. For more information about configuring the switch from the device UI, see the user manual, which you can download by visiting netgear.com/support/enterprise/downloads and entering your model number.

B. Use NETGEAR Insight to discover and manage the switch

You can use the NETGEAR Insight Cloud Portal and NETGEAR Insight app to discover and manage the switch.

NOTE: If you manage the switch using the Insight Cloud Portal or Insight app, you can also still use the device UI to manage the switch. That is, these management methods are not mutually exclusive but complement each other. Changes to Insight are synchronized to the device UI, and the other way around, changes to the device UI are synchronized to Insight. Insight is enabled by default on the switch.

Use the NETGEAR Insight Cloud Portal to discover and manage the switch

You can manage the switch through the portal of the Insight cloud-based management platform.

1. On a computer or tablet, visit insight.netgear.com.
2. Enter the email address and password for your NETGEAR account and click the **Log in** button.
3. If two-factor authentication is enabled, enter the verification code, and click the **Verify Code** button.
4. Click **Devices > Add**.
5. Select the **Single Device** radio button.

NOTE: You can also add multiple Insight-managed devices by uploading a device list in a CSV file. For more information, see the user manual at netgear.com/support/enterprise/.

6. From the **Select Location** menu, select a network location to add the device to.

The device admin password that you set for the network location replaces the existing admin password on all devices that you add to the network location.

7. In the **Serial Number** field, enter the device serial number.
8. In the **Device Name** field, enter a name for the device.
9. In the **MAC Address** field, enter the device MAC address.
10. Click the **Add** button.
11. Optionally change the device name of the switch, then click **Next**.
A page displays a confirmation that setup is in progress.

NOTE: If the switch is online but Insight does not detect the switch, the firewall at the physical location where the switch is located might prevent communication with the Insight cloud. In that situation, add port and DNS entries for outbound access to the firewall. For more information, see kb.netgear.com/000062467.

The switch automatically updates to the latest Insight firmware and Insight location configuration. This might take up to 10 minutes, during which time the switch restarts. The switch is now an Insight managed device that is connected to the Insight cloud-based management platform.

Use the NETGEAR Insight app to discover and manage the switch

You can use the Insight app to manage the switch from your iOS or Android mobile device, and connects to the Insight cloud-based management platform.

1. On your mobile device, visit the app store, search for NETGEAR Insight, and download the latest version of the app.
2. Open the NETGEAR Insight app.
3. If you do not have a NETGEAR account, tap **I don't have an account**, and follow the onscreen instructions.
4. Tap **Log in**.
5. Enter the email address and password for your NETGEAR account, and tap **Log in**.
6. If two-factor authentication is enabled, enter the verification code, and tap **Continue**.
7. Select an organization and tap **+** in the upper-right corner.
 - **Your switch and mobile device are connected to the same network.**
 - a. Tap **SCAN NETWORK** or **Enter Serial Number**.
 - b. Follow the onscreen instructions.If the switch does not display, use the NDT to discover the switch.

For more information, see [Use the NETGEAR Discovery Tool to discover the switch in your network](#).
 - **Your switch and mobile device are not connected to the same network.** Your switch and its IP address do not display in the devices list. Do the following:
 - a. Tap **SCAN BARCODE OR QR CODE**.
 - b. Follow the onscreen instructions.
8. Follow the onscreen instructions to complete the registration of the switch.

NOTE: If you are using both Insight and the device UI to manage the switch, after you add the switch to an Insight network location, the Insight network location password replaces the switch admin password for the device UI. To access the device UI, you must then enter the Insight network location password.

PD Port (MS110TX only)

On the MS110TX switch, port 1 is a PD (Powered Device) port. This port allows the MS110TX to receive power over Ethernet (PoE) from an upstream PoE-capable switch, so the switch itself can be powered through the Ethernet cable, as well as through the main power supply. The MS110TX requires a minimum of 30 W of PoE power (802.3at) to ensure the system can safely operate at full load.

PoE considerations (MS110TXUP only)

PoE power supplied by the switch (from port 1 to port 8), with a total power budget of 230W 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, PoE+, and PoE++	Default power (full)	15.4W	0.44W-13.0W
1	PoE, PoE+, and PoE++	Very low power	4.0W	0.44W-3.84W
2	PoE, PoE+, and PoE++	Low power	7.0W	3.84W-6.49W
3	PoE, PoE+, and PoE++	Mid power	15.4W	6.49W-13.0W
4	PoE+ and PoE++	High power	30.0W	13.0W-25.5W
5	PoE++	Ultra high power	45.0W	25.5W-40.0W
6-8	PoE++	Ultra high power	60.0W	40.0W-51.0W

Device class	Power Delivered	Power Allocated
0	0.44-12.95W	15.4W
1	0.44-3.84W	4.0W
2	3.84-6.49W	7.0W
3	6.49-12.95W	15.4W

PoE troubleshooting (MS110TXUP only)

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 PoE power demand of the PD exceeded the maximum level that the switch permits. The maximum level is 15.4W for a PoE connection, 30W for a PoE+ connection, and 60W for a PoE++ connection.	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.
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. Check the condition of the PD, restart the PD by disconnecting and reconnecting the PD, or try a shorter cable.

Supported Modules: Transceivers and DACs

The switch supports the following transceiver modules and Direct Attach Cables (DACs), which you can purchase from NETGEAR.

Model	Description
1G Fiber SFP Transceivers	
AGM731F	NETGEAR 1000BASE-SX SFP LC Transceiver (multimode, 1000m OM4, 550m OM3 50/125µm, 275m OM2/OM1 62.5/125µm)
AGM732F	NETGEAR 1000BASE-LX SFP LC Transceiver (single mode, 10km 9/125µm)
1G Copper SFP Transceiver	
AGM734	NETGEAR 1000BASE-T SFP RJ45 Transceiver
10G SFP+ Direct Attach Cables (DACs)	
AXC761	NETGEAR 10G SFP+ to SFP+ 1-Meter Passive Direct Attach Cable
AXC763	NETGEAR 10G SFP+ to SFP+ 3-Meter Passive Direct Attach Cable
10G Fiber SFP+ Transceiver	
AXM761	NETGEAR 10GBASE-SR SFP+ LC Transceiver (multimode, 550m OM4, 300m OM3 50/125µm, 33m OM2/OM1 62.5/125µm)
AXM762	NETGEAR 10GBASE-LR SFP+ LC Transceiver (single mode, 10km 9/125µm)
AXM764	NETGEAR 10GBASE-LR LITE SFP+ LC Transceiver (single mode, 2km 9/125µm)
10G Copper SFP+ Transceiver	
AXM765v2	NETGEAR 10GBASE-T SFP+ RJ45 Transceiver (80m CAT6A)

NOTE: The switch supports a maximum of one 10G copper module in the SFP+ ports.

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 netgear.com/support/enterprise/.

(If this product is sold in Canada, you can access this document in Canadian French at netgear.com/support/enterprise/.)

For regulatory compliance information including the EU Declaration of Conformity, visit netgear.com/about/regulatory/.

See the regulatory compliance document before connecting the power supply.

For NETGEAR's Privacy Policy, visit netgear.com/about/privacy-policy.

Where permitted by law, by using this device, you are agreeing to NETGEAR's Terms and Conditions at netgear.com/about/terms-and-conditions. If you do not agree, return the device to your place of purchase within your return period.

This product is designed and warranted for indoor use only. Do not use this device outdoors. The PoE source is intended for intra building connection only.

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NETGEAR, Inc.

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