

Installation Guide

M4500 Intelligent Fully Managed Switches

Step 1: Set up the switch

Prepare the installation site so that mounting, access, power source, and environmental requirements are met. For more information about these requirements, see the hardware installation guide, which you can download by visiting netgear.com/support/download/.

1. Install the switch using one of the following methods:

- **On a flat surface.** Place the switch on a flat surface.
- **In a rack.** Use the rack-mount kit that is supplied with your switch, following the installation instructions in the hardware installation guide.

2. Apply power.

The Power LED lights solid yellow while the switch conducts a power-on self-test (POST). After the POST completes, the Power LED indicates the results:

- **Solid green:** The switch is functional.
- **Solid yellow:** The POST failed. For more information, see the hardware installation guide.
- **No light:** Check to see that the power cable or power adapter is plugged in correctly and that the power source is functioning. If this action does not resolve the problem, see the hardware installation guide for more information.

3. Connect devices to the switch.

We recommend using the following SFP modules or cables:

- For 10G fiber connectivity:
 - SFP modules: NETGEAR AXM761, AXM762, or AXM764
 - Cables: NETGEAR AXC761 (1 m), AXC763 (3 m), AXC765 (5 m), AXC767 (7 m), AXC7610 (10 m), AXC7615 (15 m), or AXC7620 (20 m)
- For 40G fiber connectivity:
 - SFP modules: NETGEAR AXLM761 or AXLM762
 - Cables: NETGEAR AXLC761 (1m) or AXLC763 (3m)
- For 100G fiber connectivity:
 - SFP modules: NETGEAR ACM761 or ACM762
 - Cables: NETGEAR ACC761 (1m) or ACC763 (3m)

NOTE: The QSFP28 ports on models M4500-48XF8C and M4500-32C are preconfigured for 100G speed. If you want to use a 40G SFP module in a QSFP28 port, you first must configure the port for 40G speed. The SFP28 ports on model M4500-48XF8C are preconfigured for 10G speed.

NOTE: If purchased, SFP modules and cables are shipped separately. For more information about installing an SFP module, see the hardware installation guide.

After you configure or find the IP address of the switch, you can configure the features of the switch through the CLI.

Step 2: Log in and configure the switch

You can log in and configure the switch through the out-of-band (OOB) port (which is also referred to as the service port), through any Ethernet network port, or through a console port. By default, the switch functions as a DHCP client.

To log in and configure the switch, use *one* of the following methods:

- **Audio-video user interface:** Use the audio-video user interface, abbreviated as AV UI, through the OOB port or any Ethernet network port (see [Access the AV UI to configure the switch](#)).

- **CLI:** Use the command-line interface (CLI) through the Type-C USB console port. You can configure the IP address manually or use the ezconfig utility (see [Access the CLI to configure the switch](#)).

NOTE: For AV installations only, you can use the Engage controller to configure and manage M4500 series switches and other NETGEAR fully managed switches. For more information, visit netgear.com/business/solutions/engage-controller/.

NOTE: Regardless of the management method that you use, make sure that the switch is running the latest firmware version. To download firmware, visit netgear.com/support/download/.

Access the AV UI to configure the switch

You can use a computer on the same subnet as the switch to access the AV UI over the switch's default IP address.

1. Configure your computer with a static IP address:
 - For access over an Ethernet network port, use an IP address in the 169.254.0.0 subnet with subnet mask 255.255.0.0. For example, use 169.254.100.201.
 - For access over the OOB port, use an IP address in the 192.168.0.0 subnet with subnet mask 255.255.0.0. For example, use 192.168.0.201.
2. Connect an Ethernet cable from an Ethernet port on your computer to the OOB port or an Ethernet network port on the switch:
3. Launch a web browser and enter the default IP address of the switch in the address field of the browser:
 - **Ethernet port:** For access over an Ethernet network port, enter **http://169.254.100.100**.
 - **OOB port:** For access over the OOB port, enter **http://192.168.0.239**.

The login page displays.

4. To log in for the first time, enter **admin** for the user name and leave the password field blank, and
5. Click the **AV UI Login** button.
On first login, you are required to specify a password.
6. Specify a password and log in again using your new password.

7. Configure the switch settings.

On each UI page, if you make changes, be sure to save the changes.

NOTE: For information about using the AV UI, including information about assigning a static IP address to the switch, see the audio video user manual, which you can download by visiting netgear.com/support/download/.

Access the CLI to configure the switch

To use the CLI for initial configuration and assign a static or dynamic IP address to the switch, connect a computer or VT100/ANSI terminal to one of the console ports on the switch.

1. Depending on the connector type at your computer or terminal, and the port that you are using on the switch, use one of the following cables, both of which are included in the product package:

- USB console cable for use with the Type-C USB console port.

NOTE: To use the Type-C USB port, you might need to install the USB console driver on the computer. You can download the driver by visiting netgear.com/support/download/.

- Console cable for use with the RJ-45 RS232 console port.

2. Connect one end of the cable to the appropriate port on the switch and connect the other end to your computer or terminal.

3. If you connect a computer to a console port on the switch, start a terminal emulation program:

- On a computer with a Windows operating system, you can use HyperTerminal or Tera Term.
- On a computer with a Mac operating system, you can use ZTerm.
- On a computer with a Linux operating system, you can use Minicom.

4. Configure the terminal emulation program to use the following settings: baud rate, 115,200 bps; data bits, 8; parity, none; stop bit, 1; flow control, none.

5. At the user prompt, log in to the switch using the user name **admin** and press **Enter**. At the password prompt, do not type a password but press **Enter**.

On first login, the switch forces you to specify a password.

6. Specify a password and log in again using your new password
You can now use the CLI to manually configure the switch, including the IP address.
To use the ezconfig utility, continue with the next step.
7. At the next command prompt, type **ezconfig** and press **Enter**.
The ezconfig utility is now running on the switch.

Find the DHCP-assigned IP address

By default, the switch functions as a DHCP client and gets its IP address from a DHCP server in the network. To find the assigned IP address of the switch's OOB port or management interface (which can be any of the Ethernet ports), connect a computer or VT100/ANSI terminal to one of the console ports on the switch.

1. Make sure that the switch is connected to a DHCP server.
2. Set up a console connection with the switch.
For information about setting up a console connection, see Steps 1 through 6 in [Access the CLI to configure the switch](#). After you are logged in and at the CLI command prompt, continue with the next step.
3. At the command prompt, do one of the following:
 - To find the IP address of the OOB port (which is also referred to as the service port), type the **show serviceport** command, and press **Enter**.
 - To find the IP address of the management interface, enter the privileged EXEC mode by typing **enable**, type the **show ip management** command, and press **Enter**.

The IP address that is assigned by the DHCP server displays.

4. Log in to the switch's AV UI or main UI by launching a web browser and entering **http://<ipaddress>** in the address field:
 - **OOB port:** Enter the IP address that is assigned to the OOB port.
 - **Any Ethernet network port:** Enter the IP address that is assigned to the management interface.

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 port is intended for intra building connection only.

December 2024



201-31917-01

NETGEAR, Inc.

NETGEAR INTERNATIONAL LTD

© NETGEAR, Inc., NETGEAR and the NETGEAR Logo are trademarks of NETGEAR, Inc. Any non-NETGEAR trademarks are used for reference purposes only.