NETGEAR®
BUSINESS

Installation Guide

AV Line of Fully Managed Switches
M4250 Series

Set up the switch

Prepare the installation site so that mounting, access, power source, and environmental requirements are met.

Note: For more information about these requirements, the hardware setup process, the LEDs, and how to connect devices, see the hardware installation guide, which you can download by visiting *https://www.netgear.com/support/download/*.

1. Install the switch using one of the following methods:
   - **On a flat surface**. Attach one of the rubber footpads that came with the switch on each of the four concave spaces on the bottom of the switch.
   - **In a rack**. Use the rack-mount kit that is supplied with your switch.

2. Apply AC 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.

   If the Power LED does not light at all, check to see that the power cable is plugged in correctly and that the power source is functioning.

3. Connect devices to the switch.

We recommend using the following cables and, if applicable, SFP modules:

- Category 5e (Cat 5e) or better cable for a copper port at 1 Gbps or 2.5 Gbps.
- NETGEAR AGM734 module for a copper port at 1 Gbps.
- NETGEAR AGM731F or AGM732F module for a fiber port at 1 Gbps.
- NETGEAR AXM761, AXM762, AXM763, AXM764, or AXM765 module for a fiber port at 10 Gbps.
- NETGEAR AXC761 (1 m), AXC763 (3 m), AXC765 (5 m), AXC767 (7 m), AXC7610 (10 m), AXC7615 (15 m), or AXC7620 (20 m) cable for a fiber port.

Note: If purchased, SFP modules and cables are shipped separately.

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.

Before connecting this switch to outdoor cables or devices, see *https://kb.netgear.com/000057103* for safety and warranty information.

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 local browser user interface**. Use the audio-video local browser user interface, abbreviated as AV UI, through the OOB port or any Ethernet network port (see *Access the AV UI or main UI to configure the switch*).
- **Main local browser user interface**. Use the main local browser user interface, abbreviated as main UI, through the OOB port or any Ethernet network port (see *Access the AV UI or main UI to configure the switch*).
- **CLI**. Use the command-line interface (CLI) through the Type-C USB console port or RJ-45 RS232 console port. You can configure the IP address manually or use the ezconfig utility (see *Access the CLI to configure the switch*).

Access the AV UI or main UI to configure the switch

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

1. Configure your computer with a static IP address:
   - For access over the OOB port, use an IP address in the 192.168.0.0/16 subnet. For example, use 192.168.0.100.
   - For access over an Ethernet network port, use an IP address in the 169.254.0.0/16 subnet. For example, use 169.254.100.201.

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:
   - **OOB port**: Enter **http://192.168.0.239**.
   - **Any Ethernet network port**: Enter **http://169.254.100.100**.

   The login page displays.

4. To log in for the first time, do one of the following:
   - **AV UI**. To access the AV UI, enter **admin** for the user name, leave the password field blank, and click the **AV UI Login** button.
   - **Main UI**. To access the main UI, click the **Main UI Login** button. The main UI login page displays. Enter **admin** for the user name, leave the password field blank, and click the **Login** button.

   On first login, you are required to specify a password.

5. Specify a password and log in again using your new password.

6. Configure the switch settings.

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

IMPORTANT: Make sure that the switch is running the latest firmware version. To download firmware, visit *https://www.netgear.com/support/download/*.

Note: For more information about using the main UI or AV UI, including information about how to assign a static IP address to the switch, see one of the user manuals, which you can download by visiting *https://www.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 must install the USB driver on the computer. You can download the driver by visiting *https://www.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, or 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.

```
Netgear Switch) #ezconfig
EZ Configuration Utility
```

8. Using the ezconfig utility, set up the basic switch configuration, including a static IP address and subnet mask.

You can also use the switch IP address that you manually configure in the CLI or that is assigned by the ezconfig utility to log in to the switch's AV UI or main UI by launching a web browser and entering **http://<ipaddress>** in the address field.

Note: For more information about CLI management, see the CLI reference manual, which you can download by visiting *https://www.netgear.com/support/download/*.

Find the IP address assigned by a DHCP server

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.

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See the regulatory compliance document before connecting the power supply.

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