

Installation Guide

Fully Managed Switches

Model M4350-16M4V

Step 1. 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 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.** Except for desktop models, use the rack-mount kit that is supplied with your switch.

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 powered on and operating normally.
- **Solid yellow.** The POST failed. For more information, see the hardware installation guide.
- **Off:** Power is not supplied to the switch. 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. If required, install the interface cards in the switch.

Each M4350-16M4V switch contains four modularized ports and supports the following four interface cards:

- **APM414SD:** Two Neutrik opticalCON QUAD for four MMF transceivers (multimode fiber: 10G, 25G).
- **APM414LD:** Two Neutrik opticalCON QUAD for four SMF transceivers (single mode fiber: 10G, 25G).
- **APM414C:** Four standard 10GBASE-T RJ-45 ports (1G, 10G).
- **APM414V:** Four standard 25G SFP28 ports (shipping pre-installed with the switch: 10G, 25G).

4. Connect devices to the switch.

For ports 1-8, use a Neutrik etherCON RJ45 connector cable.

For the ports on the APM414SD and APM414LD interface cards, use Neutrik opticalCON QUAD connector cables.

NOTE: You must purchase the Neutrik connector cables from a third-party vendor. For more information about third-party Neutrik connector cables, contact NETGEAR or your local NETGEAR reseller. For more information about the Neutrik connectors, see the hardware installation guide, which you can download by visiting netgear.com/support/download/.

For ports 9-16, we recommend using the following cables:

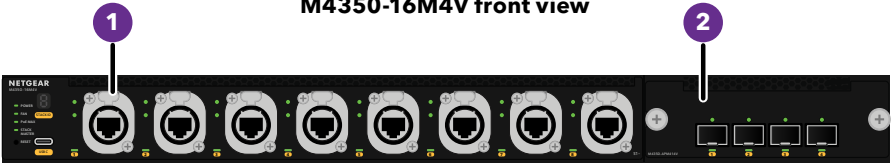
- Category 5e (Cat 5e) or higher-rated cable for a copper port at 1 Gbps or 2.5 Gbps.
- Category 6a (Cat 6a) or higher-rated cable for a copper port at 10 Gbps

NOTE: If purchased, 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 kb.netgear.com/000057103 for safety and warranty information.

M4350-16M4V front view



M4350-16M4V rear view



Number	Item
1	Neutrik connections 1-8
2	Interface card slot
3	Ethernet ports 9-16
4	Neutrik powerCON connectors

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:

- **A. 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 [A. Access the AV UI to configure the switch](#)).
- **B. 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 [B. Access the main UI to configure the switch](#)).
- **C. 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 [C. Access the CLI to configure the switch](#)).

NOTE: For AV installations only, use the Engage controller to configure and manage the M4350 series switches and other NETGEAR fully managed switches. For more information, visit netgear.com/business/solutions/engage-controller/.

NOTE: For IT installations, you can use the AV UI, main UI, CLI, or NETGEAR Insight Cloud Portal and Insight application to configure and manage the M4350 series switches and other fully managed switches. For more information in Insight management, see kb.netgear.com/000044336/.

NOTE: For all fully managed switches, the Engage controller and Insight are mutually exclusive. This means you can only use one of these options to configure and manage a switch, not both.

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/.

A. Access the AV 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 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/.

B. Access the 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 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, click the **Main UI Login** button.
The main UI login page displays in a new tab.
5. 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.
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 main UI, including information about assigning a static IP address to the switch, see the main user manual, which you can download by visiting netgear.com/support/download/.

C. 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. Use the USB console cable with the Type-C USB console port. The cable is included in the product package.

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/.

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.

```
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 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 [C. 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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Regulatory and Legal

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

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 port is intended for intra building connection only.

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