

Installation Guide

NETGEAR Intelligent Edge Managed Switches M4100 Series

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, visit <https://www.netgear.com/support/> to download the hardware installation guide.

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, following the installation instructions in the hardware installation guide.

2. Apply AC power.

The Power LED lights solid yellow while the switch conducts a power-on self-test (POST). After the switch passes the POST, the Power LED lights solid green, and the switch is functional. If the Power LED does not light green, see the following troubleshooting tips:

- If the POST fails, the Power LED remains solid yellow. See the troubleshooting section of the hardware installation guide for more information.
- 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. If this action does not resolve the problem, see the troubleshooting section of the hardware installation guide for more information.

3. Connect devices to the switch.

We recommend using the following cables and SFP modules:

- Use Cat5e for copper ports at 1000 Mbps.
- Use NETGEAR AGM731F or AGM732F for fiber ports at 1000 Mbps.
- Use NETGEAR AFM735 for fiber ports at 100 Mbps.

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

2. Perform the initial configuration

You can manage your switch through its local browser user interface (UI) or by using the command-line interface (CLI) through a console port. This guide shows you how to configure your switch using the local browser UI. It also covers how to use the CLI to determine a DHCP-assigned IP address or using ezconfig to assign a static IP address. For more information about CLI management, visit <https://www.netgear.com/support/> to download the CLI reference manual and software administration guide.

To use web management to configure your switch, use one of the following procedures, depending on how your Windows computer is set up:

- Computer in DHCP client mode without a DHCP server.
- Computer with a static IP address.
- Computer in DHCP client mode with DHCP server.

Computer in DHCP client mode without a DHCP server

The switch assumes a default IP address of 169.254.100.100 and a subnet mask of 255.255.0.0. The switch is in the same subnet used by the computer NIC port when in DHCP-client mode without a DHCP server present. Use this IP value to log in to the switch.

Computer with a static IP address

When the computer is in this mode, the switch must also be assigned a static IP address. To assign a static IP address, connect a VT100/ANSI terminal or a workstation to one of the switch's console ports. A cable for the mini USB port and a straight-through RJ-45 cable are supplied.

To configure the switch:

1. Start a terminal emulation program (TEP):
 - **Windows XP or earlier.** Use HyperTerminal.
 - **Windows Vista or later.** Use a TEP from the Internet.
 - **Macintosh.** Use ZTerm.
 - **UNIX.** Use a terminal emulator such as TIP.
2. Select a console port using the console switch on the rear panel:
 - **Mini USB port** (cable included).

Note: You might need to install the USB serial port driver before you can use the USB port on the computer to connect to the switch. To download the USB driver, visit <https://www.netgear.com/support/>, enter your model number in the search box, and click the Downloads button on the product page.
 - **DB9** (cable not included).
3. Configure the TEP with the following settings (written below the connector on the switch front panel):
 - **Baud rate.** 115200 bps
 - **Data bits.** 8
 - **Parity.** none
 - **Stop bit.** 1
 - **Flow control.** none
4. At the user prompt, log in to the switch using the user name **admin** and press Enter.
5. At the password prompt, press Enter again (no password is needed for initial configuration).
6. At the next command prompt, type **ezconfig** and press Enter.

The ezconfig utility is now running in the switch.
7. Set a static IP address and subnet mask using the ezconfig utility as shown in the following example.

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

Make sure that the switch IP address is in the same subnet as the computer.

8. Use the switch IP address returned by ezconfig to log in to the switch.

For information about how to perform extensive CLI management, see both the CLI reference manual and the software administration guide.

Computer in DHCP client mode with DHCP server

By default, the switch is configured as a DHCP client to obtain its IP address from a DHCP server in the connected network. You must access the switch from the serial console port.

To configure the switch:

1. Make sure that the switch is connected to a DHCP server.
2. Find the switch IP address assigned by the DHCP server.
 - a. Perform steps 1 through 3 of the procedure *Computer with a static IP address*.
 - b. Type the **show ip interface vlan <management VLAN ID>** command, and press Enter.

By default, the management VLAN ID is 1.

The active switch IP address displays.

3. Log in to the switch through its local browser UI using this IP address.

3. Log in to the switch from the web

Manage your switch through its local browser UI with the appropriate IP address for your configuration.

1. Type **http://<ipaddress>** into the URL field of your browser.

The login screen displays.

2. Type **admin** for the user name, leave the password field blank and click the **LOGIN** button.

The System Information screen displays. You can now navigate from this point to configure your switch.



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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.

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Do not use this device outdoors. The PoE source is intended for intra building connection only.

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