

Installation Guide

10G/Multi-Gigabit Dual WAN Pro Router with Insight Cloud Management Model PR460X

Front view PR460X



Rear view PR460X



Package contents

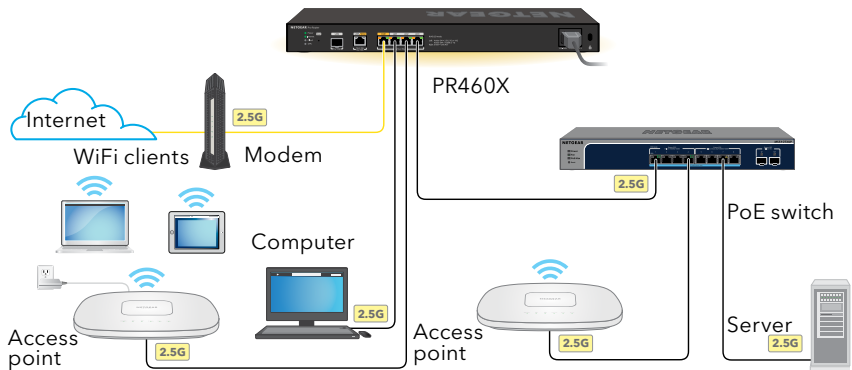
- NETGEAR PR460X router
- AC power cable (varies by region)
- Ethernet cable
- Rack-mount kit
- Rubber feet for desktop or table installation

Step 1. Connect to a modem and power

You can manage the router through the local device UI while connected to the local LAN, or remotely using NETGEAR Insight mode (subscription required). In a standard setup you connect the PR460X directly to a modem or gateway to provide Internet connectivity to the PR460X. Alternatively, you can use an existing LAN connection from another router to provide Internet connectivity to the PR460X.

1. Unplug the modem or gateway's power.
If it uses a battery backup, remove the battery.
2. Using an Ethernet cable, connect the modem to the yellow WAN1 port on the PR460X.
NOTE: If you use a setup with a LAN connection from another router, connect the LAN cable from the other router (or from a switch that is connected to the other router) to the yellow WAN1 port on the PR460X.
3. Plug in and turn on the modem or gateway.
If it uses a battery backup, insert the battery before you turn it on.
4. Power on the PR460X and check that the Power LED and Internet LED are lit.
For information on LED status, see the table in the following panel.

Sample connections



This router 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 router and the outdoor device. Failure to do so can damage the router.



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

After starting up and during setup, the PR460X's LEDs can light in these colors:

Power LED		Solid amber: The PR460X is starting. (Solid amber lasts for about one minute.)
		Blinking amber: The firmware is being loaded while the PR460X is starting or the firmware is being updated.
		Solid green: The PR460X is ready.
Internet LED		Blinking amber: The Internet connection is in the process of being set up.
		Solid green: The Internet connection is established.
		Solid amber: No Internet connection is established.
		Off: No link is established on the WAN1 port.
Cloud LED		Off: The PR460X functions in Standalone mode or, if deployed in Insight mode, it is not connected to the Insight Cloud.
		Solid blue: The PR460X functions in Insight mode, and is connected to the Insight cloud.
Port LEDs for 2.5G ports: WAN1 LAN1 LAN2 LAN3		Left LED solid amber: The port detects a speed of 2.5 Gbps.
		Left LED off: The port detects a speed of 1 Gbps or 100 Mbps.
		Right LED solid green: The port link is up but idle.
		Right LED blinking green: The port is processing traffic.

Port LEDs for 10G port: LAN5 WAN2		Left LED solid amber: The port detects a speed of 10 Gbps, 5 Gbps, or 2.5 Gbps.
		Left LED off: The port detects a speed of 1 Gbps or 100 Mbps.
		Right LED solid green: The port link is up but idle.
		Right LED blinking green: The port is processing traffic.
SFP+ LED for 10G LAN4 port		Solid green: The link is up. For information about the link speed, see the PR460X device user interface (UI), the Cloud Portal dashboard, or the Insight app.
		Off: No link is established.

Step 2. Log in to connect to the Internet

NOTE: Before you can select a management method or use Insight to manage the PR460X, you must log in over a web browser to the device UI of the PR460X and set up the PR460X's Internet connection.

1. Locate your Internet service provider (ISP) configuration information.
2. Connect a computer with an Ethernet cable to a LAN port on the PR460X.
You can use LAN port 1, 2, or 3. The computer must be configured as a DHCP client so that it can receive an IP address from the PR460X. (For most computers, the DHCP client is enabled by default.)

NOTE: If you configure a WiFi access point and connect it directly to a LAN port on the PR460X, you can also use a WiFi connection to set up the PR460X. The PR460X itself does not provide WiFi capability nor Power over Ethernet (PoE), so, in such a setup, you must use a power supply or PoE switch to power the access point.

3. Launch a web browser and enter **<https://routerlogin.net>** in the address field (this is the same as **<https://192.168.1.1>**).
Your browser might display a security warning because of the self-signed certificate on the PR460X, which is expected behavior. You can proceed,

or add an exception for the security warning. For more information, see kb.netgear.com/000062980/.

4. On the Log In page, enter the default admin password, which is password. The Setup Wizard starts.
5. Follow the prompt in the Setup Wizard to connect to the Internet. The Setup Wizard searches your Internet connection for servers and protocols to determine your Internet configuration.
6. You are also prompted to do the following:
 - a. Set a new admin password for local login, and set security questions and answers.
 - b. If a new firmware version is available, follow the prompts to update the firmware. After you update the firmware, the PR460X restarts.

When the PR460X connects to the Internet, the Internet LED lights solid green.

Step 3. Select the PR460X management method

To configure and manage the PR460X, use one of the set up methods in this table.

A.	NETGEAR Engage Controller	NETGEAR Engage Controller: See A. Use the NETGEAR Engage Controller to manage the PR460X.
B.	NETGEAR Insight Cloud Portal or NETGEAR Insight app remote management	NETGEAR Insight Cloud Portal: See B. Use NETGEAR Insight to manage the PR460X
C.	Standalone local management	Web browser: See C. Use the local web browser to configure and manage the PR460X

NOTE: NETGEAR Insight and the Engage Controller are mutually exclusive management methods.

A. Use the NETGEAR Engage Controller to manage the PR460X

You can use the NETGEAR Engage Controller to discover and manage the PR460X router. The Engage Controller provides central management and configuration of PR460X router, and other supported devices through an audio-video (AV)-friendly, portable app for Windows and MacOS.

NOTE: This section refers to a setup where the Engage Controller is already installed. To download and install the Engage Controller, see the instructions in the user manual. You can download the manual from the NETGEAR Download Center at netgear.com/support/download. The QR code for the NETGEAR Download Center is shown at the right.



NOTE: To allow the Engage Controller to discover, onboard, or upgrade the firmware of the PR460X, you must perform an online or local firmware upgrade to version 2.5.1.11 or a later version.

1. On your computer, in the folder in which you installed the controller application, double-click the **Engage** application icon, or double-click the **Engage** shortcut.
2. In the **Login Name** field, enter **admin** as the user name, in the **Password** field, enter the controller password you set up the first time you logged in, and click the **Login** button.
3. If you set up more than one site, from the **Site** menu, select the site. In the Edit Network Setup pop-up window, do one of the following:
 - **Make no changes to the network setup for the site:** Click the **Apply** button.
 - **Change the network setup for the site:** Change the network setup and click the **Apply** button. For more information, see the Engage Controller user manual.
4. Click the **Onboard** button for the device. A warning pop-up window displays.
5. To let the controller onboard the PR460X Pro Router so that it can take control of the Pro Router, specify one of the following options for the device password:
 - **Custom device password:** If the PR460X Pro Router uses a custom device password, enter it.

- **Default device password:** To automatically enter the default device password, turn on the **Use device default password** toggle so that it displays blue or green and is positioned to the right.
To use this option, the PR460X Pro Router must be in factory default state.
- **Site password:** To automatically enter the controller site password, turn on the **Use controller site password** toggle so that it displays blue or green and is positioned to the right.

6. Click the **Add** button.
Your settings are saved.

The Pro Router is moved to the Managed Devices table, and the onboarding process is now in progress.

NOTE: At the end of this procedure, the controller pushes the site password to the PR460X Pro Router (which replaces the local device password or default password).

7. To save the settings to the running configuration, at the top right of the page, click the **Save** button.

For information about managing the PR460X Pro Router with the Engage Controller, see the Engage Controller user manual. You can download the manual from the NETGEAR Download Center at netgear.com/support/download/.

B. Use NETGEAR Insight to manage the PR460X

For NETGEAR Insight Premium and Insight Pro subscribers, the PR460X router supports the NETGEAR Insight Cloud Portal and NETGEAR Insight app. You can use either of these options to manage the PR460X router.

NOTE: If you manage the PR460X using the Insight Cloud Portal or Insight app, you can also still use the device UI to manage the PR460X. 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 PR460X.

Use the NETGEAR Insight Cloud Portal to manage the PR460X

1. On a computer or tablet, visit insight.netgear.com.
2. Enter the email address and password for your NETGEAR account and click

the **NETGEAR Sign In** button.

3. If you are an Insight Pro user, select the organization to which you want to add the PR460X.
4. Add a new network location where you want to add the PR460X, or select an existing network location. 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.
5. Click the **+ (Add Device)** button.

NOTE: If you are an Insight Pro user, you can either add a single device or you can add multiple Insight-managed devices by uploading a device list in a CSV file.

6. In the Add New Device pop-up page, enter the router's serial number and MAC address, then click **Go**.
7. Optionally change the device name of the router, then click **Next**.

A page displays a confirmation that setup is in progress.

NOTE: If the PR460X is online but Insight does not detect it, a firewall at the site where the PR460X 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 PR460X automatically updates to the latest Insight firmware and Insight location configuration. This might take up to 10 minutes, during which time the PR460X restarts.

The Cloud LED lights solid blue when the PR460X is connected to Insight. The PR460X 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 PR460X

The Insight app provides a convenient way to add new devices, receive real-time notifications, and manage your network from anywhere.

1. Connect your mobile device over WiFi to the same network as the PR460X.

NOTE: If you configure a WiFi access point and connect it directly to a LAN port on the PR460X, you can also use a WiFi connection to set up the PR460X. The PR460X itself does not provide WiFi capability nor PoE so, in

such a setup, you must use a power supply or PoE switch to power the access point.

2. Open the NETGEAR Insight app.
3. Enter the email address and password for your account and tap **LOG IN**.
4. Add a new network location where you want to add the PR460X by tapping the **Next** button, and then tapping **OK**. You can also select an existing network location.

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

In most situations, Insight detects the PR460X automatically, which can take several minutes.

5. To add the PR460X to your network location, do one of the following:
 - If the PR460X is automatically detected and listed in the Insight Manageable Devices section, tap the **router** icon, and then tap the **ADD DEVICE** button.
 - If the PR460X is not automatically detected, or you prefer to use another method to add the PR460X, tap the **+** icon in the top bar, and do one of the following:
 - Tap the **SCAN BARCODE OR QR CODE** button, and then scan the PR460X's code.
 - Tap the **Enter Serial Number and MAC Address** link, and then manually enter the PR460X's serial number and MAC address.
6. If prompted, name the PR460X and tap the **Next** button.

The PR460X automatically updates to the latest firmware and Insight location configuration. This might take up to 10 minutes, during which time the PR460X restarts.

The Cloud LED lights solid blue, confirming that the PR460X is now an Insight-managed device that is connected to the Insight cloud-based management platform.

You can now use the Insight Cloud Portal or Insight app to configure and manage the PR460X.

C. Use the device UI to manage the PR460X

You can configure and manage the PR460X router and change the settings locally in a web browser.

1. Connect a computer with an Ethernet cable to a LAN port on the PR460X. You can use LAN port 1, 2, or 3. The computer must be configured as a DHCP client so that it can receive an IP address from the PR460X. (For most computers, the DHCP client is enabled by default.)

NOTE: If you configure a WiFi access point and connect it directly to a LAN port on the PR460X, you can also use a WiFi connection to set up the PR460X. The PR460X itself does not provide WiFi capability nor PoE so, in such a setup, you must use a power supply or PoE switch to power the access point.

2. Enter **<https://routerlogin.net>** in the address field.

The Login page displays.

Your browser might display a security warning because of the self-signed certificate on the PR460X, which is expected behavior. You can proceed, or add an exception for the security warning. For more information, see kb.netgear.com/000062980/.

3. Enter the admin password that you set earlier.

The admin password is case-sensitive.

NOTE: If you are using both NETGEAR Insight and the device UI, use the Insight network location password.

The Dashboard page displays. This page displays various panes that let you see the status of your PR460X at a glance. You can now configure and monitor the PR460X.

We recommend that you register your router with your MyNETGEAR account to activate your warranty. For more information, see kb.netgear.com/26904.

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

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Do not use this device outdoors.

Applicable to 6 GHz devices only: Only use the device indoors. The operation of 6 GHz devices is prohibited on oil platforms, cars, trains, boats, and aircraft, except that operation of this device is permitted in large aircraft while flying above 10,000 feet. Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.

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NETGEAR, Inc.

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