



Spectrum WiFi 6E MDU Router

User Guide - Version 10

September 13, 2024



Advanced WiFi

Your Spectrum WiFi 6E MDU Router delivers Advanced WiFi. You can conveniently manage your internet, network security and personalization settings in the My Spectrum App.



Get Started with My Spectrum App

Scan the QR code with your smartphone camera or visit spectrum.net/getappnow



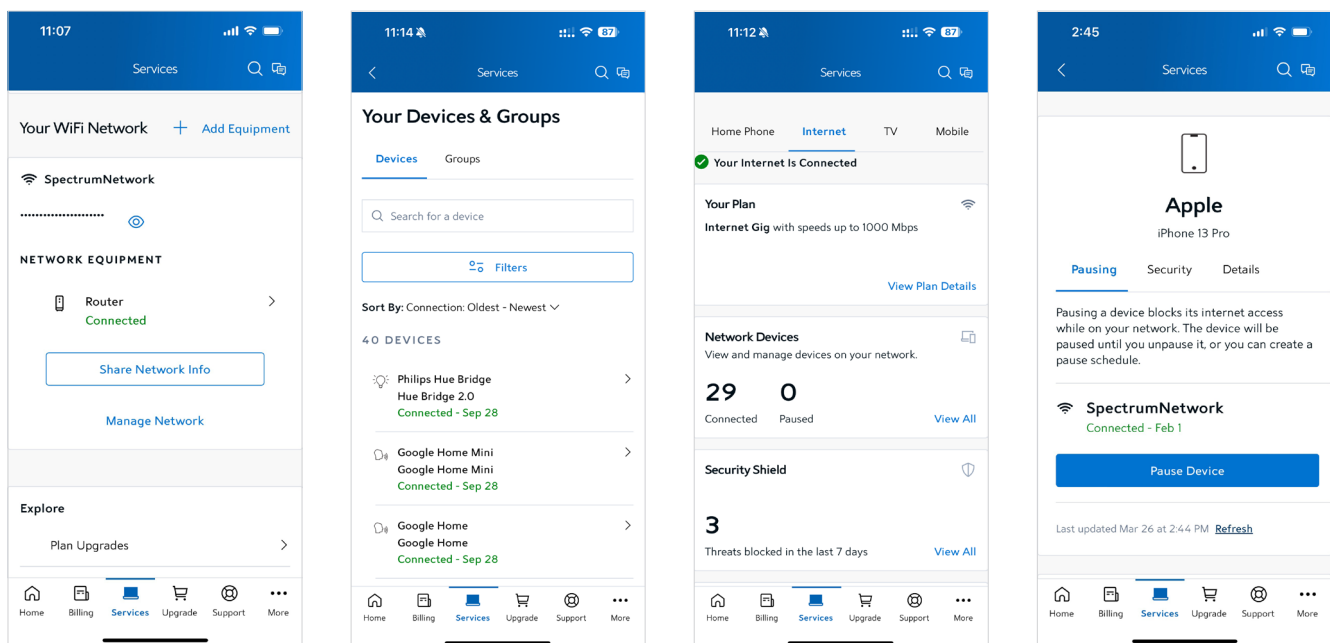
Free on iPhone and Android

After downloading, sign in with your Spectrum username and password.

Don't have a Spectrum username? [Spectrum.net](https://spectrum.net) and select [Create a Username](#).

With Advanced WiFi, you can:

- Customize your WiFi network name (SSID) and password.
- View and manage devices connected to your WiFi network.
- Troubleshoot your equipment and fix service-related issues.
- Add, remove, pause or resume WiFi access for a device or group of devices on your network.
- Get port forwarding support for improved online gaming performance.
- Turn off/turn on UPnP support.
- Ability to configure the DNS server address.
- Have peace of mind with a secure WiFi network featuring Spectrum Security Shield.
- Use both wireless and Ethernet connectivity.
- Add or remove up to 5 WiFi Pods per router.



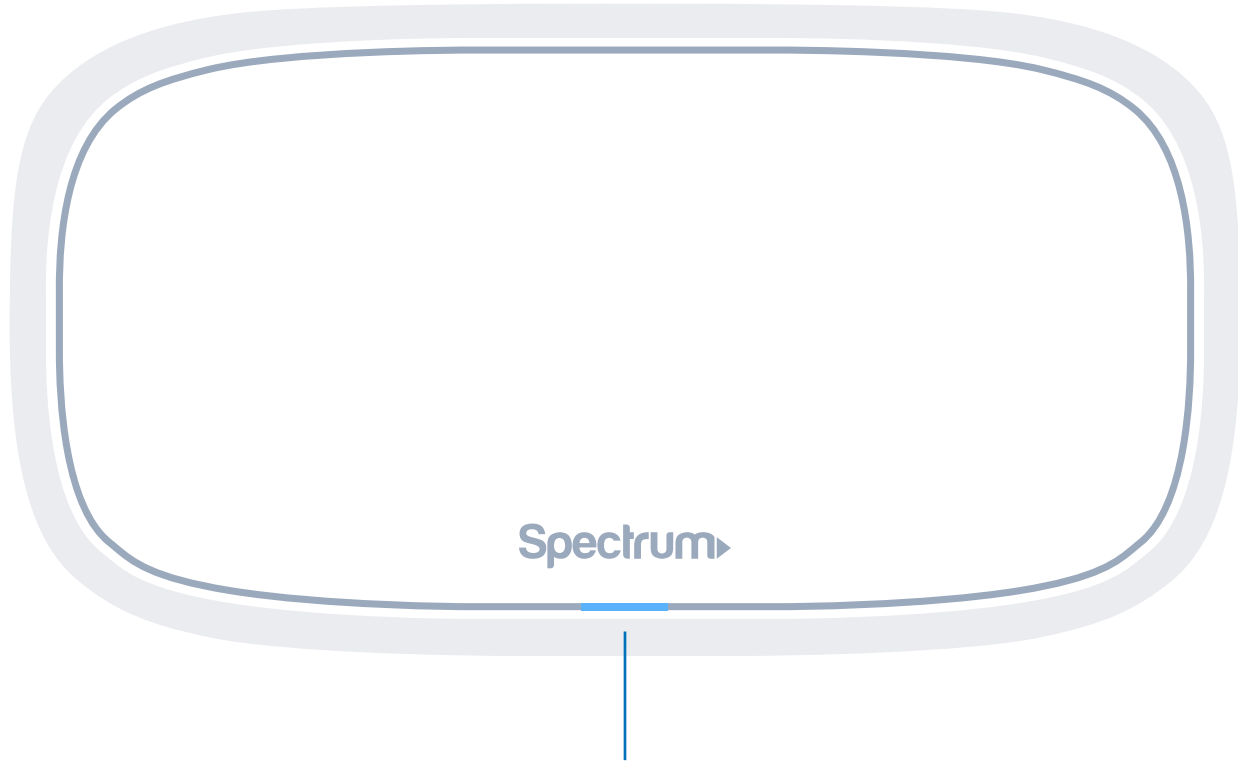
Personalize Your WiFi Network Name and Password

To secure your home network, you must create a unique network name and a password containing letters and numbers. You can change your network name and password in the My Spectrum App or on [Spectrum.net](https://www.spectrum.net)

The image consists of two side-by-side screenshots of a mobile application interface. The left screenshot shows a screen titled 'Edit WiFi Network Name and Password'. At the top, there is a blue header bar with a back arrow, the text 'Edit Network', and a close icon. Below the header, the title 'Edit WiFi Network Name and Password' is displayed. The main content area contains three paragraphs of text: 'Editing your WiFi network info will disconnect any devices currently online. Use this new info to reconnect your devices.', 'The WiFi info on your Spectrum router will no longer be accurate.', and 'Network Name'. Below the network name label is a text input field containing 'BriansHouse'. Underneath that is the 'Network Password' label and a password input field with 12 black dots and a blue eye icon to toggle visibility. At the bottom is a large blue 'Save' button. The right screenshot shows a confirmation screen titled 'Save Changes'. It features a blue header bar with a close icon. The main content area contains a paragraph: 'This will automatically disconnect all the devices from your current WiFi network. Make sure to update the WiFi settings on your devices with your new name or password.' Below the text are two buttons: a blue 'Yes, Continue' button and a light gray 'Cancel' button.

Spectrum WiFi 6E MDU Router with Advanced WiFi

The front panel has a light that indicates the router's status while starting up your home network.



Status Lights

Off - Device is off

Blue Flashing with 1s interval - Booting up

Blue Easing with 5s interval - Connecting to the Internet

Blue Solid - Connected to the Internet

Red Easing with 5s interval - Connectivity issues (no internet connection)

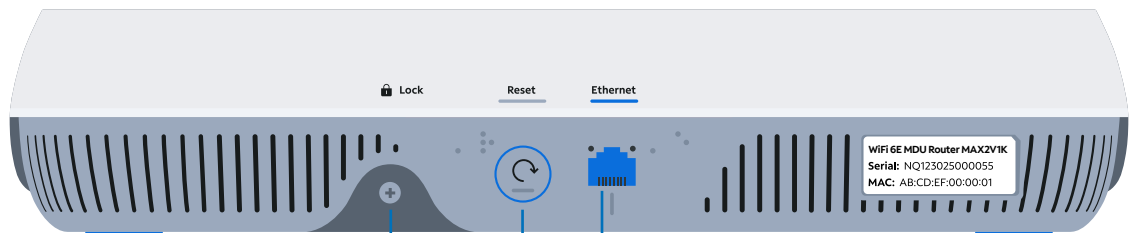
Red and Blue Alternating Easing with 5s interval - Updating firmware
(or any scenario where device must not be restarted)

Red Solid - Critical issues (hardware or otherwise)

Red and White Alternating Flashing with 1s interval - Thermal panic mode

Spectrum WiFi 6E MDU Router with Advanced WiFi

The router's back and side panel features:



Lock screw - Phillip head screw. Use a phillips head screwdriver.

Power & Factory reset - Press and hold for more than 5 seconds but less than 15 seconds to power cycle the router.

Ethernet (LAN) 2.5 Gbps port - Connect network cables for local area network connection e.g. PC, game console, printer.

Press and hold for more than 15 seconds to reset router to factory default settings.

Warning: Your personalized configurations will be removed.

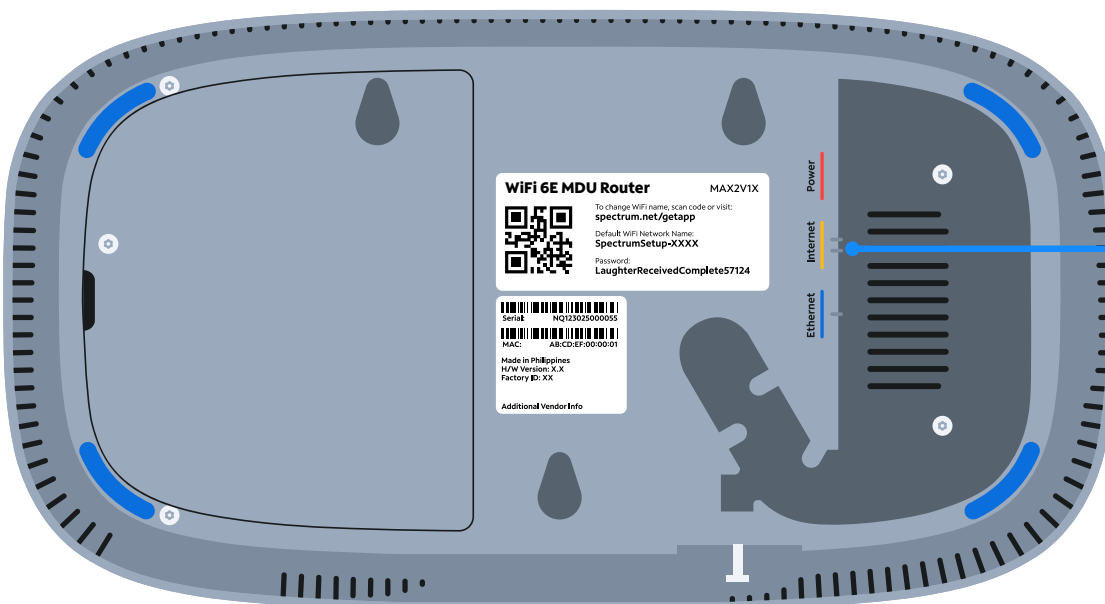
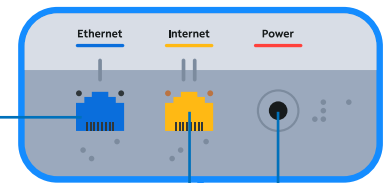
Ethernet (LAN) 2.5 Gbps port - Connect network cables for local area network connection e.g. PC, game console, printer.

Internet (WAN) 2.5 Gbps port - Connect network cable to the modem for wide area network connection.

Power plug - Connect provided power supply to home outlet power source.

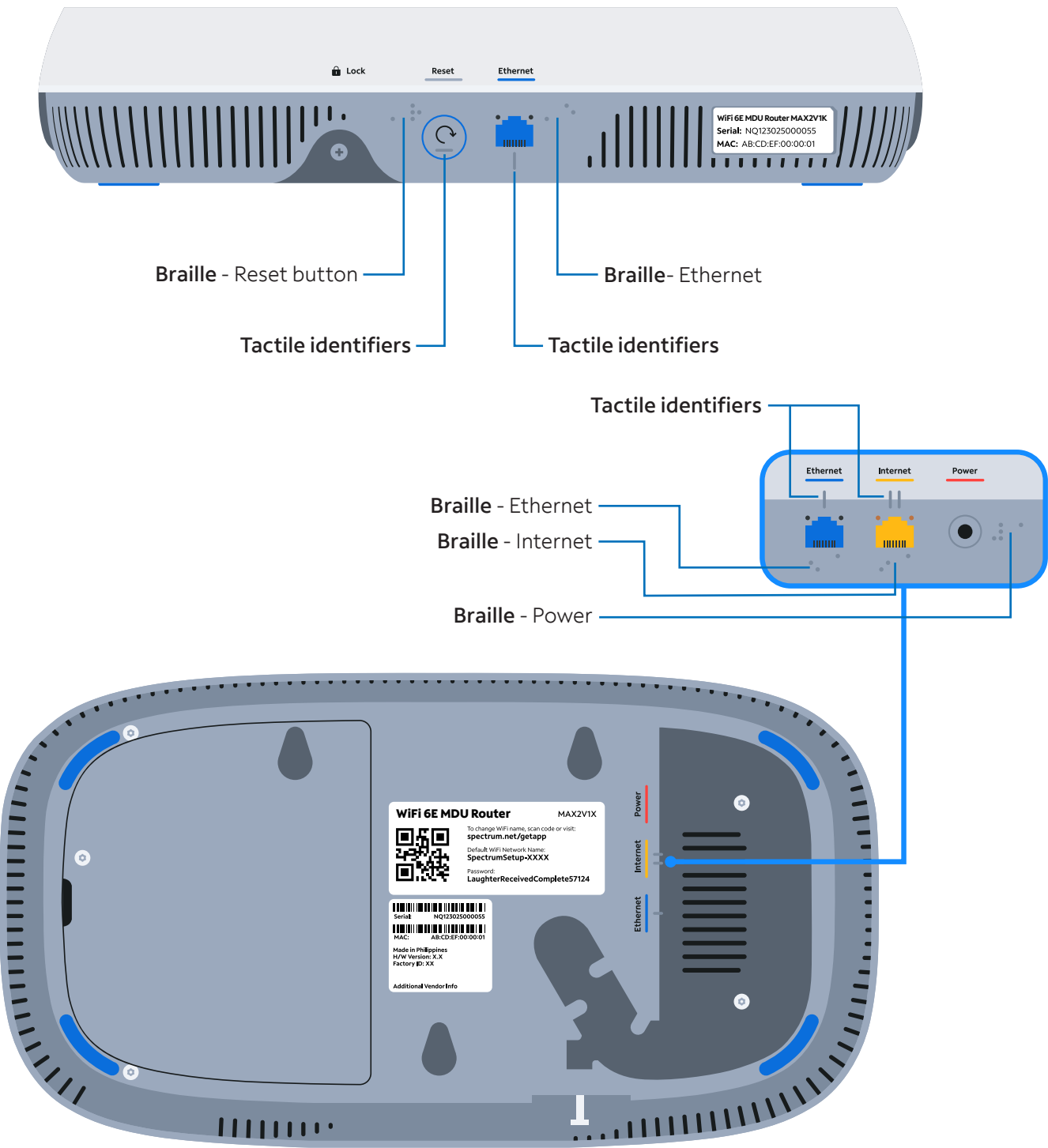
Note: The router may be powered by a power supply OR by a Power over Ethernet (PoE) connection to the **Internet** (WAN) port.

Routers powered by PoE should not have a power supply connected to the **Power** plug.



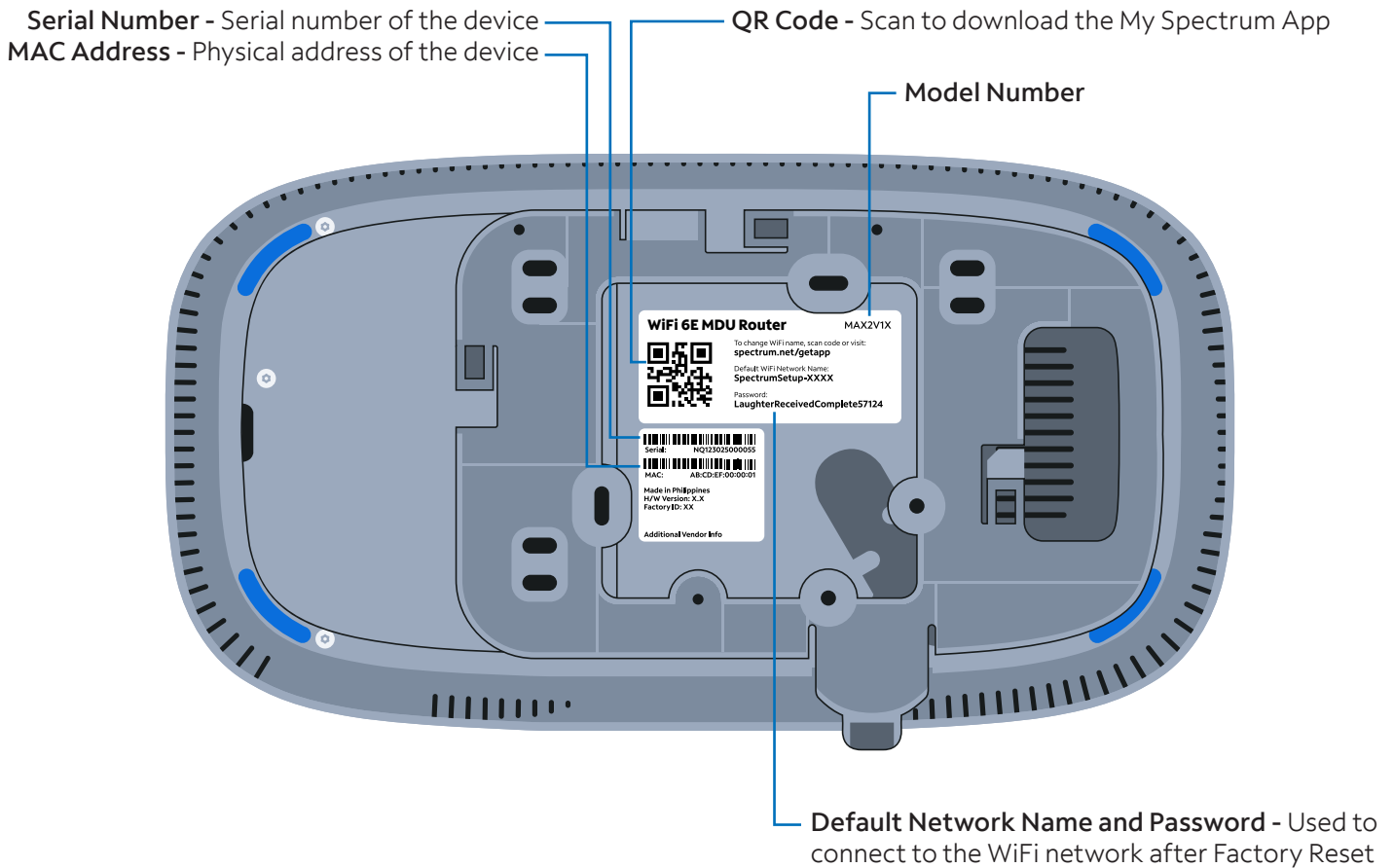
Spectrum WiFi 6E MDU Router with Advanced WiFi

The router’s back and side panel tactile and Braille markers:

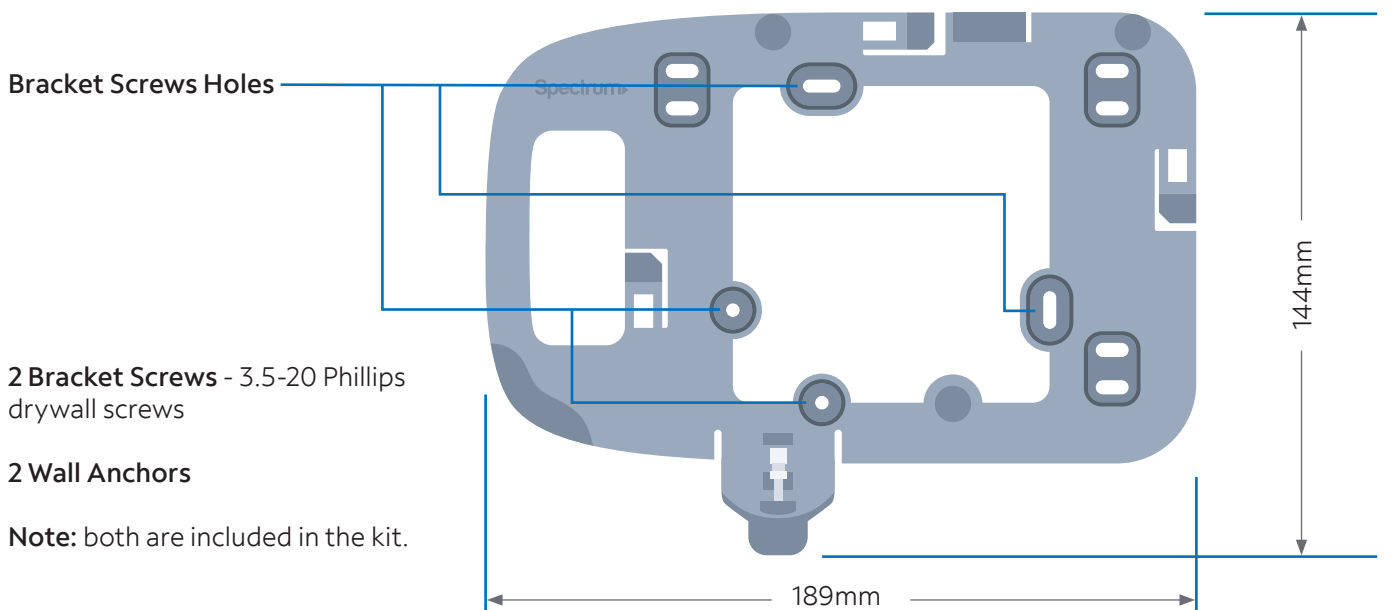


Spectrum WiFi 6E with Advanced WiFi

The router's label callouts:



Bracket Dimensions



Spectrum WiFi 6E MDU Router Technical Specs

Features	Benefits
IEEE 802.11a/b/g, WiFi 4 (802.11n), WiFi 5 (802.11ac), & WiFi 6E (802.11ax-2020) support Concurrent 2.4 GHz, 5 GHz, and 6 GHz frequency band support	• Supports existing client devices in the home and all newer devices using higher frequencies, including the latest WiFi 6E capable devices. • Provides flexibility in range for WiFi signal to cover the home. • Future capability upgrade to support AFC (Automated Frequency Coordination) which enables the WiFi 6E router to potentially increase the power of the 6 GHz radio from LPI (Low Power Indoor) default mode to SP (Standard Power) mode. Enables the 6 GHz band to have almost the same level of reach as the 5 GHz band.
2.4 GHz WiFi Radio - 802.11ax 4x4:4 Active Antenna 5 GHz WiFi Radio - 802.11ax 4x4:4 Active Antenna 6 GHz WiFi Radio - 802.11ax 4x4:4 Passive Antenna	• More data per packet transition provides higher throughput and increased range improving experience, especially in client dense environments. • Delivers higher data rates and bandwidth for the 2.4 GHz and 5 GHz frequency bands as well as support for almost 1,200 MHz of the 6 GHz frequency band. • Unified SSID enables intelligent client steering - optimizes client device connectivity to best frequency band, channel, and access point. • Prevents client devices from "sticking" to a specific non-optimized band as the client moves around or if the channel becomes congested due to external interference.
WiFi Channel Bandwidths	• 2.4 GHz – 20 / 40 MHz • 5 GHz – 20 / 40 / 80 / 160 MHz (includes lower 45 MHz of U-NII-4 band) • 6 GHz – 20 / 40 / 80 / 160 MHz (excludes first 160 MHz of 1,200 MHz)
802.11ax-2020 WiFi 6E chipsets with higher processing power	Supports consistent performance where there is a higher density of WiFi devices connecting to the network. Powerful chips encode/decode signals, allowing better network and device management.
Latest industry-standard WiFi security (WPA3 Personal, WPA2 Personal)	Supports WPA3 Transitional. This enables support for both the WPA3 Personal (2022 version) standard, which is the highest security standard available to date, as well as the older WPA2 Personal (2004) standard to protect devices on the WiFi network. Note: Only 6 GHz band supports WPA3 Personal, WPA2 Personal is supported on 2.4 GHz and 5 GHz bands .
Two 2.5 MultiGig LAN ports	Connect stationary computers, game consoles, printers, media sources and other devices on the private network for high-speed service. These two Ethernet PHYs support the following standards: • IEEE 802.3e 10BASE-T, • IEEE 802.3u 100BASE-TX, • IEEE 802.3ab 1000BASE-T, • IEEE 802.3bz 2.5GBASE-T
One 10 MultiGig WAN port	Connect to Internet port of Cable Modem, Spectrum eMTA or Spectrum ONU. This Ethernet PHY supports the following standards: • IEEE 802.3an 10GBASE-T
More Specifications	• Integrated fan provides optimum temperature regulation with ultra-quiet operation (under 30dBA) even under the most demanding loads. • IPv4 and IPv6, DHCP, DSCP tag support, Wi-Fi® Easy Connect, Connectivity with Spectrum WiFi Pods, Spectrum Mobile Speed Boost • Primary Power Source: 802.3bt Type 3 60W-capable PoE++ Injector: 48VDC/1.25A • Alternative Power Source: Spectrum PSU2 36W: 12VDC/3A • Dimensions: 11.5" x 6.2" x 2.28"

Need Help or Have Questions?

We're here for you. To learn more about your services or get support, visit spectrum.net/support or call us at (833)798-0166.

Federal Communication Commission Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Note: The country code selection is for non-US model only and is not available to all US model. Per FCC regulation, all WiFi product marketed in US must be fixed to US operation channels only.

FCC regulations restrict the operation of this device to indoor use only.

- a. The operation of this device 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.
- b. Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.