FX10 WIFI 6 MASH EXTENDER USER MANUAL

JEXtream AX1800

Franklin Wireless Corp

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Introduction

The WiFi 6 Mesh Extender (model: FX10) will extend your wireless coverage along with the WiFi 6 router (model: FX20) that will connect to your modem or gateway.

The WiFi 6 Extender connects to the WiFi 6 router and extends the WiFi signal throughout your whole home mesh WiFi system. Basically, the WiFi 6 router is turned on the WiFi Mesh controller operation, it will allow to connect of the WiFi 6 Mesh Extender.

This guide provides a brief introduction how to connect your WiFi 6 Mesh Extender to enable your whole home WiFi mesh network.

Overview

The following topics give you all the information you need to set up your router for the first time.

Parts and Functions

The WiFi 6 Mesh Extender (model: FX10) enables to extend your whole home mesh WiFi coverage along with the better performance by ensuring more available bandwidth with less congestion for all connected devices on network. With FX20's WiFi 6 capacity, it allows more users and devices to connect to the network at the same time without impacting speed or reliability.
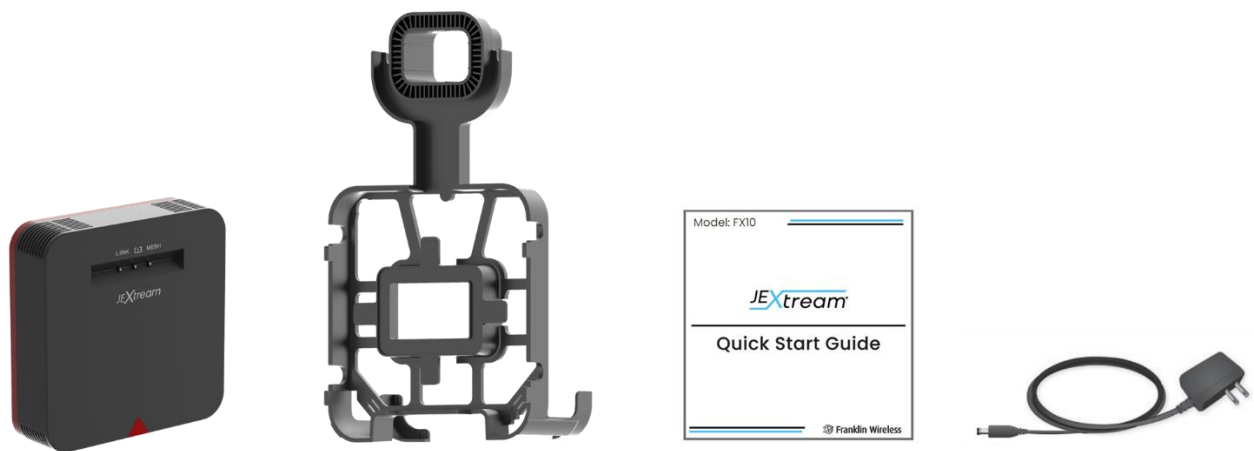
This chapter contains the following sections:

• This Box Contains

• WiFi Mesh Extender Overview

• Wall Mount Cradle

• Turn on the Device

• LED Behaviors

• Back Panel Button and Connector

For more information about the topics covered in this manual, visit the support website at https://www.jextream.net/support.

This Box Contains

Your package contains the following items:
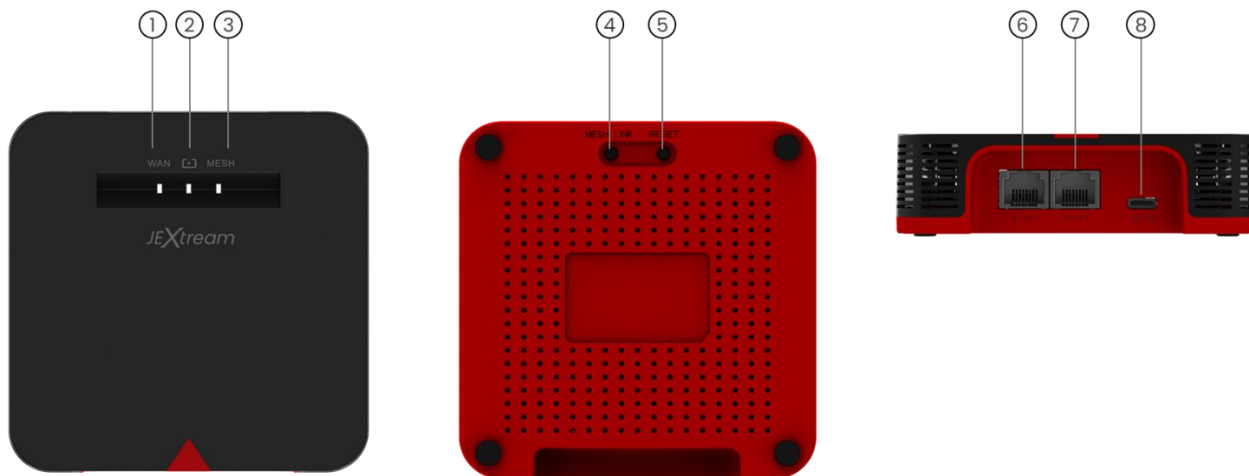
FX10 Mesh Extender	Cradle	QSG	Power Adapter

WiFi 6 Mesh Extender Overview

The following numbers on Front and Rear panels indicate interface detail:

(1) LINK Status LED

(2) Power Status LED

(3) MESH Status LED

(4) MESH LINK Button

(5) RESET Button

(6) RJ-45 LAN Port

(7) RJ-45 LAN Port

(8) Power IN

Wall Mount Cradle

This FX10 with the Wall mount cradle by attaching the power adapter is designed to install your WiFi 6 Mesh extender a snap and reduce cord clutter.

1. Mount the WiFi 6 Mesh extender on the Cradle's holder.
2. Attach the Cord cable of the power adapter on the Cradle's back side.

3. Move it to any position you want as long as there is a socket.
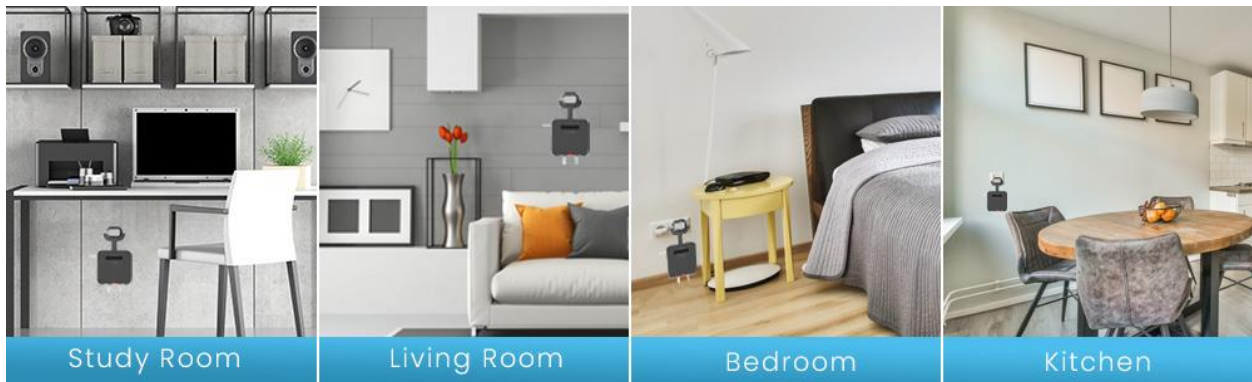
Turn on the Device

Plug USB type C Power Adapter to device, then connect to wall. The device should automatically turn on.

Power LED

LED Behaviors

The following table describes the LED indicators that is located on the router front view.

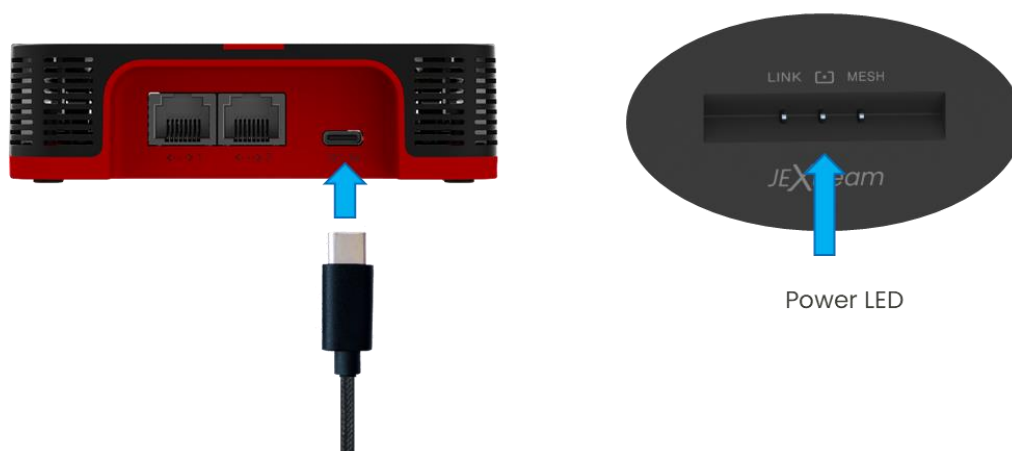| LED	Description
LINK	• **Solid white** – The Mesh extender is synced with the Mesh controller (FX20 router) and is working normally. • **Off** – Unable to sync with the Mesh controller.
Mesh	• **Solid white** – The Mesh extender is ready to sync with the Mesh controller (FX20 Router). • **Blinking white** – The Mesh extender is attempting to sync with the Mesh controller once pressing the Mesh-Link button on the backside for 3 seconds. • **Solid red** – The Mesh extender failed to sync with the Mesh controller. Move your Mesh extender closer to the Mesh controller as your Mesh extender may place out of range from your Mesh controller or make sure that the Mesh controller mode is enabled on the router Web UI. • **Off** – Power is not supplied
Power	• **Solid white** – The Mesh extender finished booting. • **Off** – Power is not supplied.

Back Panel Button and Connector

The following table describes the hardware features on the router back view.

Button	Description
DC-IN	USB Type C Power Connector
Mesh-Link	Pressing the Mesh-Link button for 3 seconds, this Mesh LED is blinking and attempting to sync with the Mesh controller (FX20 Router). The blinking during this process stays on up to 6 minutes.
RST (RESET)	Pressing the RST button for 5 seconds, your device will restart. Pressing the RST button at least 10 seconds, your device will restore the factory settings.

Link Your Device

The following topics give you all the information you need to set up your device and wireless service for the first time.

Place your WiFi 6 Mesh Extender

Your Mesh extender must be within range of your Mesh controller's WiFi coverage in order to sync with it. Indicates the Mesh LED color to RED where to place your Mesh extender in the wickedness WiFi signal. Closer it to your Mesh controller.
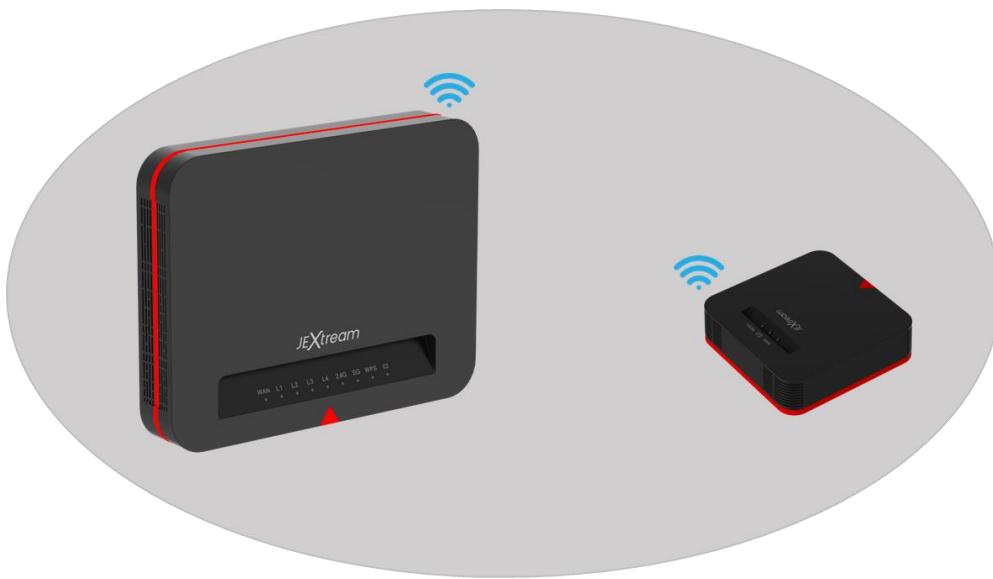
If you own more than one Mesh extender, your Mesh controller can sync with each other. Place your Mesh extender within range of each other.

Link your WiFi 6 Mesh Extender

Your FX20 router is preset to the Mesh controller mode by default, and your Mesh extender (FX10) is ready to find and sync with your Mesh controller.

1. **Place your Mesh extender closer to your Mesh controller.**
   For more information, see Place your WiFi 6 Mesh Extender section.

2. **Check the WiFi Mesh Controller mode on your FX20 router.**
   The router
   Once the Mesh controller mode is enabled, it will turn on Amber color.
   Otherwise, please turns on the Mesh controller mode by going through your router's Web UI where
   the **WiFi Mesh** menu in the Wireless is placed.
   For more information, see Wireless > WiFi Mesh section in the FX20 WiFi 6 User Guide.

WPS LED

3. **Connect your Mesh extender to a power source.**
   The Power LED turns on white and the Mesh LED turns on white.
   If the Mesh LED pules white, your Mesh extender will try to find and sync to your Mesh controller
   automatically.
   For more information, see Turn on the Device section.

4. **Press the WPS button on your FX20 router for 3 seconds.**
   The WPS LED pulse Amber until your Mesh extender will be successfully synced.
   This process time will have up to 5 minutes for syncing your Mesh extender.

WPS Button

5. **Press the Mesh-Link button on your Mesh extender for 3 seconds.**
   Within 5 minutes, press the Mesh-Link button on the back of your mesh extender. It will attempt to
   sync to your Mesh controller.

MESH LINK Button
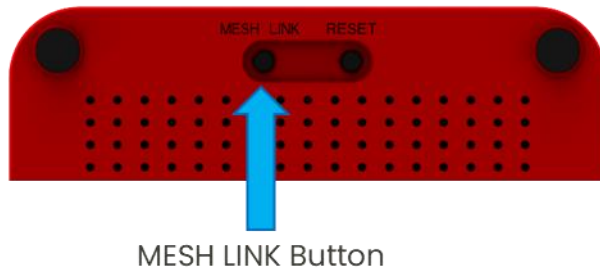
The Mesh LED pulse white until your Mesh controller will be successfully synced. This processing time will take up to 6 minutes for syncing your Mesh controller. The Mesh LED will stay in White Color.

MESH LED
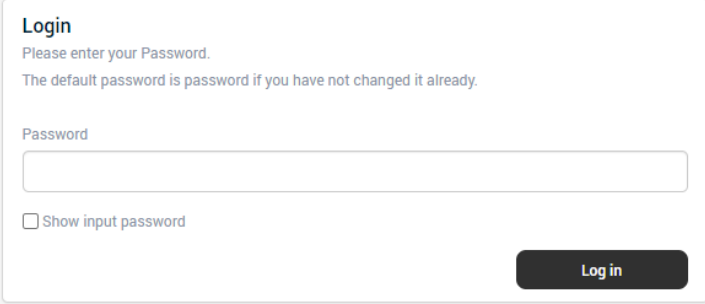
Setup Your Device

The following topics give you all the information you need to set up your device and wireless service for the first time.
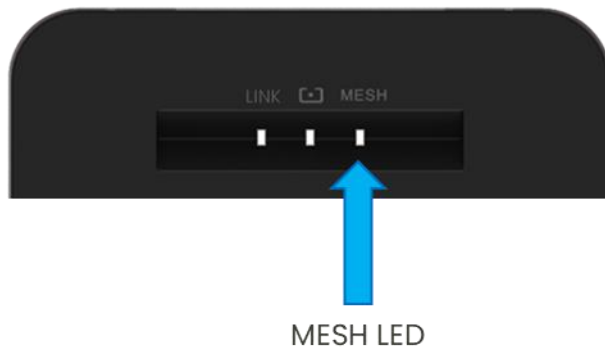
Step1) Access your FX20 device's Web UI

Launch an internet browser from a computer or mobile device that is connected to the network. Accessing other menus requires admin log in.

1. Type http://router.jextream.net or http://192.168.10.1.

2. Login window open and enter password and click "Log in" button.

Note: The default password is "**password**." It's recommended to change the password for your security.

Step2) Check WiFi Mesh Controller

Go to the Wireless > WiFi Mesh section from the FX20's Web UI and check the WiFi Mesh Configuration item whether it is turned on or not. Make sure that it should turn on for supporting the WiFi Mesh feature.

For more information, see Wireless > WiFi Mesh section in the FX20 WiFi 6 Router User Guide.

Step3) Check Mesh Client List

Go to the Wireless > WiFi Mesh section from the FX20's Web UI and check the Mesh Client List in order to see the connected Mesh Extender list.

Once the Mesh extender will join the Mesh controller, it will display the client list along with the Mesh extender MAC Address and an IP Address assigned.

Step4) Monitor Mesh Extender Status

Click the IP address's link in one of the Mesh Client List or type the IP address on an internet browser, and then, it will move on to the Mesh Extender's Web UI.

1. Once the Login window open and enter password.

2. Enter the default password and click "Log in" button. The default password is "**password**." It's recommended to change the password for your security.

3. Select the Dashboard icon on the top left conner, you can check the status of device information, system information, RJ-45 LAN Ports Status, and Wireless LAN status along with the Mesh Controller's SSID and MAC address.

Appendix

The following topics cover items such as troubleshooting, device specifications, applicable warranty and service information, customer service contacts, and applicable trademark and copyright notices.

Troubleshooting

Check below for troubleshooting solutions for common device issues.

Issue: Do not connect your Mesh Extender

If you are experiencing difficulty syncing the Mesh controller (FX20 router) and the Mesh extender, we recommend that your Mesh extender needs to move to the Mesh controller. Once both are synced successfully, and then move your Mesh extender to a specific location where you would like to enable the whole Mesh home system.

1. Place the Mesh extender in the Mesh controller's location. Use this place only during the sync process.

2. Press the WPS button on the FX20 router's back side for 3 seconds.

3. Within 5 minutes, press the Mesh-Link button on the Mesh extender's backside for 3 seconds.

4. Wait until the LINK LED in the Mesh extender turns on.

5. The WPS LED in the FX20's router will pulse on Amber during attempting to sync.

6. The Mesh LED in the Mesh extender will pulse on White during attempting to sync.

7. Once the LINK LED in the Mesh extends will turn on White, which means that both parties successfully synced, and the wireless connection between them is good.

Issue: Mesh LED indicates RED

Install your Mesh extender to a new location and connect into a power source. At this new location, check the LINK LED and MESH LED and make sure it turns on White. Your Mesh extender synced successfully.

If the MESH LED turns on RED or pulses on RED and White, move your Mesh extender closer to the Mesh controller and try again. Your Mesh extender must be within range of the FX20's WiFi cover area for a good connection to the Mesh controller.

Issue: Reset your Mesh Extender

Your Mesh extender failed to sync. Try repeating Do not connect your Mesh extender section.

If the sync keeps failing, try moving the Mesh extender to a different location that's closer to the Mesh controller.

If the sync keeps failing again, press the RESET button on the Mesh extenders back side for 10 seconds, and then, it will perform to reset your Mesh extender by the Factory value.

Issue: Cannot access the internet

Check your network and Internet connections:

1. Make sure that your WiFi-enabled computer or mobile device is connected to your mesh network.

2. If you are connected to your mesh network but you cannot access the Internet, check to see if your Internet connection is working.

3. Launch a web browser from a computer or WiFi device that is connected to the network.

4. Type http://router.jextream.net or http://192.168.10.1.

5. Enter login password, the default password is "**password**".

6. Click the Dashboard icon and check that an IP address is shown for the Internet port in the WAN information.

7. If the IP address field is shown for Empty, your router did not obtain an IP address from your ISP. You might need to force your cable or DSL modem to recognize your new router by restarting your ISP modem. See the Basic Connection user guide for more information.

8. If your router obtained an IP address, but your computer does not load any web pages from the Internet, your computer might not recognize any DNS (Domain Name System) addresses which will be a host on the Internet that translates Internet names to IP addresses.

9. You can configure your computer manually with DNS addresses, as explained in your operating system documentation. If your computer obtains its information from the router, reboot your computer, and verify the IP address.

Specifications

The following tables list the specifications for the mobile broadband device, the AC charger, and the materials.

Item	Description
Model name	FX10 WiFi 6 Mesh Extender
Dimensions[1]	W 94.8 x L 95 x 60 T mm
Weight	g
Operating Temperature	-10°C ~ + 50°C
Operating Humidity	~ 95%
Electromagnetic emissions	FCC Part 15 Class B
LAN	10BASE-T or 100BASE-TX or 1000BASE-T, RJ-45 10BASE-T or 100BASE-TX or 1000BASE-T, RJ-45
Wireless Standard	Maximum wireless signal rate complies with the IEEE 802.11 b/g/n/ac/ax standard.
Operating frequency range	2.4 GHz - 2.412–2.462 GHz (US) 5 GHz - 5.18–5.24 + 5.745–5.825 GHz (US)
802.11 security	WPA-PSK, WPA2-PSK, WPA2/WPA Mixed, WPA3-PSK and WPA3/WPA2 Mixed

USB Type C Power Adapter Specifications

Item	Description
Rated input voltage	100-240Vac
Operating range	90-264Vac
Rated input frequency	50/60Hz +/- 3Hz
Nominal dc output voltage	+5.0V (±5%)
Rating load current	2.0A

Materials Specifications

Parts	Materials/Finishing
A cover	PC(Black),SF coating
B cover	PC(Black)
Battery cover	PC(Black),SF coating
A deco	PC(Black),UV(Gloss 80%)
Rubber feet	Silicon(Black)

Warranty and Service

The following topics outline your device's warranty and service information.

Warranty

Your device purchase includes Warranty.

- Confirm shop name and purchase date.

- Read contents of Warranty and keep it in a safe place.

- Check warranty period in the Warranty.

Services

Before submitting your device for repairs, contact Service Provider's Customer Service or General Information; be prepared to describe the problem in detail.

- During the warranty period, repairs will be made under the terms and conditions described in the Warranty.

- After the warranty period, repairs will be upon request; if said repairs can be made, you will be charged for them.

Customer Service

For mobile broadband device or service information, call general information. For repairs, call your Service Provider's customer assistance.

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FCC Compliance

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.

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

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 or more 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.