Quick Installation Guide

Wi-Fi 6 Mesh Router

Safety Instructions

1. This equipment is a Class III electrical appliance which is designed to be supplied from a separated/safety extra-low voltage (SELV) power adapter.
2. WARNING: To reduce the risk of fire or electric shock, do not expose this device to rain or moisture. The device shall not be exposed to dripping or splashing and that objects filled with liquids, such as vases, shall not be placed on apparatus.
3. WARNING: the power plug/direct plug-in adapter is used as disconnect device, the disconnect device shall remain readily operable.
4. Correct Disposal of this product. This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer or service operator where the product was purchased. They can take this product for environmental safe recycling.
5. For the terminals marked with symbol of "⚡" may be of sufficient magnitude to constitute a risk of electric shock. The external wiring connected to the terminals requires installation by an instructed person or the used of ready-made leads or cords.
6. CAUTION ! RISK OF ELECTRIC SHOCK DO NOT OPEN — This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of non-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

   Warning: to reduce the risk of electric shock, do not remove cover (or back) as there are no user-serviceable parts inside. Refer servicing to qualified personnel.

   The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.
7. The power adapter is used as the power interrupting device. Please pay attention to safety plug and pull and convenient operation.
8. Use only the AC adapter which is included in the product package. Any other adapter may cause damage to the device. Such damage is not covered under warranty.

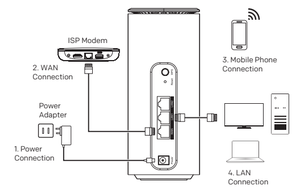
Product Specification

Item	Specification
Product Name	Wi-Fi 6 Mesh Router
WAN Interface	1*RJ45 Gigabit Ethernet Port
LAN Interface	2*RJ45 Gigabit Ethernet Port
Wi-Fi Standard	2.4GHz IEEE 802.11b/g/n/ax 5GHz: IEEE 802.11a/n/ac/ax
Band	2.4GHz and 5GHz dual-band concurrent
MIMO	2.4GHz: 2x2 5GHz: 2x2
Data Rate (maximum)	2.4GHz - 300Mbps(11n@40MHz) 574Mbps(11ax@40MHz) 5GHz - 867Mbps(11ac@80MHz) 1201Mbps(11ax@80MHz) 2402Mbps(11ax@160MHz)
Antennas	5*internal Antennas (3dBi)
Wi-Fi Mesh	
Wi-Fi Mesh Standard	Wi-Fi Alliance EasyMesh
Capacity	Maximum 5 Nodes (1 controller + 4 agents)
Backhaul Type	Wired or Wireless auto-redundancy
Environment	
Rated Power Input	12VDC/1.5A
Operating Temperature	0 ~ 45°C (32~113 °F)
Storage Temperature	-20 ~ 65°C (-4~149 °F)
Operating Humidity	0 ~ 95% non-condensing

Packaging Items

Router		Mesh Wi-Fi 6 Router
Power Adapter		Output 12VDC Power Adapter
Ethernet Cable		Standard CAT5e Ethernet cable
Quick Installation Guide		This guide provides basic product specification and information for installing the device and get it up and running on your home network

Single device installation



The device works in router mode by default. Please follow the below steps to install one single device:

(1) Connect power adapter,power ON the device and wait the system boot up.

(2) Connect WAN port of the device to your existing modem or router (Installed by Service Provider previously and make sure the Indicator is on and blinking.

(3) Wait a few seconds for the device to obtain the IP, after success the indicator will light up and ON.

If the indicator does not light up in step (3), please contact the service provider for advice.

(4) Indicator is GREEN/BLUE on means that the device has been connected to the network, and the user can start to surf the Internet. If need to add a mesh device, please refer to the following steps.

Multiple device installations for deploying mesh networks

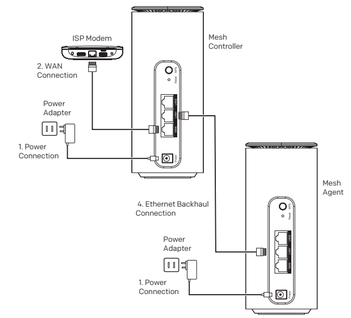
When need to install multiple devices (Set up Mesh network) to increase the coverage area to provide a better experience, you can refer to the description in this section.

Firstly, please make sure the first device is installed and able to connect to the internet normally (Refer to the installation steps for a single device).

Then Power on the second device, there are multiple ways to help you build a mesh network:

A, Setup Mesh AP with Wired Backhaul

The second device can be connected to the First device (Controller) through a Ethernet cable as the picture shows:



Connect the RJ45 port of the second device to the First device (Controller) through an cable. After two minutes, observe the indicator of the second device. When it stops BLUE flashing and remains BLUE ON, the mesh networking is successful. the WiFi configuration of the Controller will be synchronized to the second device.

For the third or more device, it can be connected to the Controller or the second device by the same method.

Compared with the wireless connection, the wired connection is more stable.

After the mesh networking is successful, you can disconnect the Ethernet cable and move the second device to the place for the need (the distance should not be too far, it is recommended that the WiFi RSSI signal be within -65dBm), the Mesh backhaul will automatically switch to wireless.

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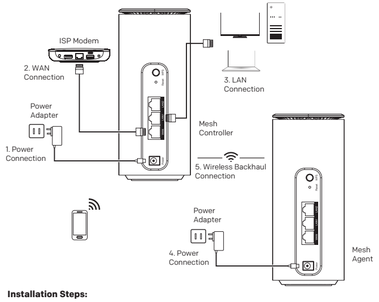
B, Setup Mesh AP with Wireless Backhaul

The second device can be also connected to the Controller through Wireless as the picture shows:



Installation Steps:

Option-1: Connect through a network cable, and remove the network cable after mesh networking is successful

Refer to the "Setup Mesh AP with Wired Backhaul" to complete the mesh networking, and after that, disconnect the Ethernet cable, the Mesh backhaul will switch to the wireless automatically.

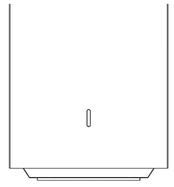
Option-2: Press WPS button

(1) Press the WPS button on the Controller for 3 seconds and release the button.

(2) Press the WPS button on the second device for 3 seconds.

(3) Observe the WPS indicator of the second device. Wait about 120 seconds till the Indicator stops BLUE flashing and remains ON, then the mesh networking is successful.

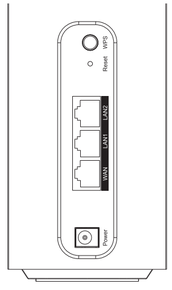
Front Panel Indicators



Indicators on Front Panel:

LED Color	Status	Description
Off	Off	The device is powered off
Red	On	The device can not access the Internet
	Flashing (Slow)	The device is booting
	Flashing (Fast)	The device is restoring factory setting or upgrading the firmware
Blue	On	The device can access the Internet or Mesh networked successfully with the controller
	Flashing	The device is in the process of Mesh networking due to WPS or APP
Green	On	The device can access the Internet but not Mesh networked with the controller
	On	The device can access the Internet but not Mesh networked with the controller. And all SSIDs are turned off

Rear Panel Interfaces



Name	Color	Description
WPS	White	WPS pairing button, press 3 seconds to enable pairing or mesh networking
Reset	Black	Short press (1 second) for reset the router Long press (10 seconds) for reset to factory default settings
12V DC	Black	DC Input Jack
WAN	Blue	WAN Port, used to connect network layer devices or Controllers
LAN1-2	Yellow	LAN Port connect to the back-haul or end user

Login Web Manager and Change Settings

(1) How to Login the Mesh Controller's Web Manager

Open a web browser and input the following text in address bar:

Login: http://192.168.2.1

Input default Username and Password, e.g. user/user

Note: you may also check the label at the bottom of the device for default IP and username/password if the information above does not work.

(2) How to Change Web Login Password

Step1: Login the mesh Controller's Web Manager

Step2: Click "System" icon

Step3: Click "User management" menu

Step4: Enter your old password and new password

Step5: Click on "Confirm" button to submit your change

(3) How to Change Wi-Fi SSID and Password

Step1: Login the Mesh Controller's Web Manager

Step2: Click "WLAN" icon

Step3: Click "EasyMesh" menu

Step4: Enter your new SSID and new Wi-Fi Key

Step5: Click on "Confirm" button to submit your changes, Wi-Fi configurations of all router's in the MESH will be changed

(4) How to Reset a Router's Configurations to its Factory Default Settings

Power on the router, press and hold the 'RESET' button at the rear panel of your device for more than 10 seconds using the end of a paper clip or other small object with a narrow tip such as a pencil, and then release.

Troubleshooting

Trouble	Troubleshooting Tips
The second devices cannot pair with the Mesh Controller with Wireless backhaul	• Login the Controller's web to make sure its role is "Controller" and its indicator is ON. • Reset the 2nd router's configurations to Factory Default by pressing the RESET button for 10 seconds. • Move the mesh router closer to the Controller. • Follow the steps in section "Setup Mesh AP with Wireless Backhaul". • If the 2nd router still can not pair with the Controller, try Ethernet backhaul first then disconnect the Ethernet cable and wait for 10 seconds.
The second device cannot pair with the Mesh Controller with Ethernet backhaul	• Login the Controller's web to make sure its role is "Controller" and its indicator is On. • Reset the 2nd router's configurations to Factory Default by pressing the RESET button for 10 seconds. • Connect WAN port of the 2nd router to the Controller's LAN port and wait for about two minutes and the 2nd router shall pair with the Controller automatically and its indicator shall be BLUE On. • If the issue still exists, please contact your service provider for further help.

FCC Statement

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.
To assure continued compliance, any changes or modifications not expressly approved by the party.
Responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

This equipment 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.

FCC Radiation Exposure Statement:
The equipment complies with FCC Radiation exposure limits set forth for uncontrolled enviroment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

SKYWORTH 创维

料号(Part No.):	待定
展开尺寸(Unfolding Size):	570x145 mm
成品尺寸(Folded Size):	95x145 mm
印刷颜色(Print Color):	黑色(Black)
材质(Material):	80g书纸(80g Writing paper)

技术要求(NOTES):

1: 公差(Tolerance): ±2mm
2: 原材料及后处理工艺均能满足ROHS和WEEE的要求.
(Raw materials and the corresponding post processing should meet requirements defined in the ROHS and WEEE.)

厂家/Manufacturer: Voion/Fuweizhi/Jiahui | 设计/Designer: 罗运鸿 | 日期/Date: 2023.09.08 | 认证加签/Certification Audit: | 审核/Audit: