

MESH-2100-XX

Quick Installation Instructions

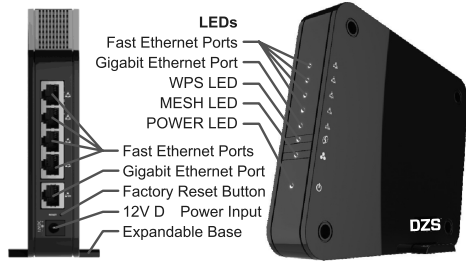


Document Number: 83 - 4318- 1
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- Package contents:
- 1 x MESH-21
 - 1 x Quick Install Guide
 - 1 x Power supply

The AC/DC adaptor(Power supply) is used as a disconnect device, the socket-outlet shall be installed near the equipment and shall be easily accessible.

Installation



1. Mounting

The MESH-21 may be mounted on flat surfaces such as a desktop. The MESH-21 is equipped with an extendable base to enhance stability.

2. Connect Power

- Plug the round two pin 12V D power connector of power converter into the MESH-21 power port
 - Plug the input of power converter into a live A outlet
 - Verify that the POWER LED on the MESH-21 is solid white indicating local power is on and voltage is good
- See **MESH-2100 LED Behavior** for a complete description of the LEDs.

3. Configuring SSID and WiFi Key

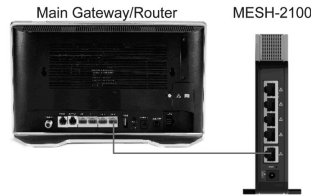
- Power up the MESH-21 as described in Connect Power, above
- Use a UTP cable between any of the MESH-21 ethernet ports and a P ethernet port
- Open a web browser and input `http://192.168.1.1 0`
- When prompted for credentials enter "admin" as user and for password "DZSXXXXXXXX" where "XXXXXXXX" is the 9 digit serial number found on the unit label
- Navigate to **5GHz Wi-Fi > Config**
- change **SSID**
- change **Password**
- click **Save**
- If needed repeat for **2.4Ghz Wi-Fi**

4. Setting Up Your MESH Network

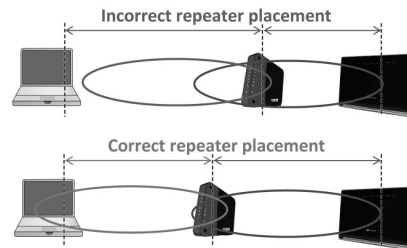
The first MESH-21 is the master of the network. This procedure assumes that the SSID and the WiFi Key have been configured to match on all MESH-21 devices. If the SSID and WiFi keys for all the MESH devices do not match, follow the instructions in **Configuring SSID and WiFi Key**.

- Select any one MESH-21
- Power on and connect the device to any unused Ethernet port on your home gateway using AT5E or AT6 UTP cable. This will become the MESH master automatically.

Make sure to use the Gigabit Ethernet port on the MESH-21



- Power on the rest of the available MESH-21 devices
 - Place each MESH-21 in a strategic location where the signal from the main gateway is still strong enough.
- As a rule of thumb, start by placing the MESH-21 half way between the main home gateway and the location that needs better Wi-Fi coverage. While doing so, make sure that the MESH LED remains solid as this is an indication that the MESH connection with the Master has been established.



When the full MESH network is operating properly, All MESH-21 devices will have it's MESH LED solid white.

For a single MESH-21 (when no slaves are used) one device solution the indication of proper operation will have the power LED solid white and the MESH LED blinking white.

- To connect to the WiFi MESH network use the WiFi SSID and Password information on your MESH-21 device acting as Master.
- The default SSID and Password are located on the unit label.

If you want to change the SSID for the MESH Network log into the Master and change the 5GHz Wi-Fi SSID and Password, this configuration will propagate automatically to 2.4GHz and all slave devices.

For instructions on how to change the SSID and Password refer to **Configuring SSID and WiFi Key**.

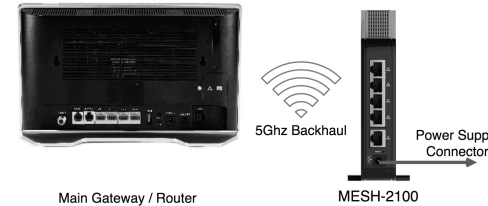
NOTE: When building your MESH network consider that the MESH-2100 acting as slave(s) can also utilize a wired or a wireless backhaul connection. Wired connectivity, if available, should always be the preferred method since it maximizes the performance of the Network as a whole.

Universal Repeater Mode Configuration

Universal Repeater Mode does not utilize the repeater MESH capabilities. Instead, the WiFi Extender is configured in repeater mode for 5GHz and access point for 2.4GHz. Universal Repeater Mode operation may be used with any WiFi gateway.

Universal Repeater Mode With Wireless Backhaul

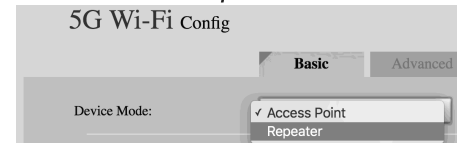
The MESH-2100 supports operation as a repeater using its 5GHz radio for both backhaul connectivity and access point (repeater mode).



To configure the MESH-2100 in universal repeater mode with wireless backhaul:

1. Go to 5G Wi-Fi > Config:

2. Set Device Mode as Repeater



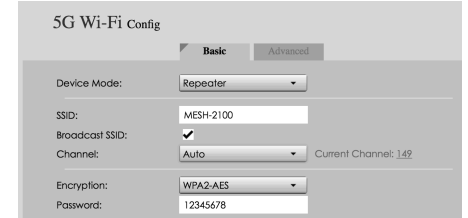
MESH-2100 will reboot and return in repeater mode

Once the device finishes booting configure the WiFi Network that devices will use to connect to the Repeater (the access point side)

3. Configure the 5GHz WiFi Network

- Use the following descriptions to configure the WiFi Network
- In **SSID** enter the name of the WiFi Network (e.g. MESH-2100)
 - From **Channel** select the desired 5GHz channel (default recommended: Auto)
 - From **Encryption** select the security encryption system to use on the WiFi Network (default recommended: WPA2-AES)

- In **Password** enter the shared passphrase used to connect to the WiFi Network



4. Configure the Backhaul WiFi Connection

This step configures the backhaul WiFi connection between repeater and main home gateway for the 5GHz radio to act as a regular WiFi Station. There are two options for configuring the backhaul WiFi connection:

- Select an SSID
- Manual SSID creation

Select an SSID

- click **Scan AP** to select the SSID to be used for backhaul WiFi

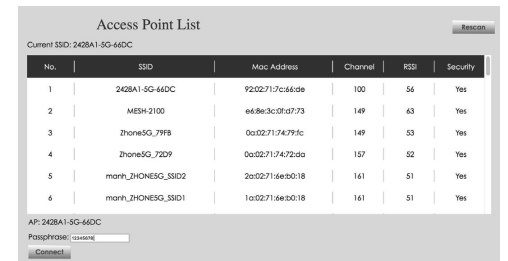


A pop-up window or tab will appear

- click the desired **SSID**

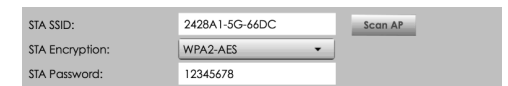
If the desired SSID does not appear click **Rescan**

- complete the **Passphrase** field
- click **Connect**



Manual SSID Creation

- In **STA SSID** enter the name of the WiFi backhaul network
- In **STA Encryption** select the security encryption system to use on the WiFi backhaul network
- In **STA Password** enter the shared passphrase used to connect to the WiFi backhaul network



After the 5GHz configuration is done the MESH-2100 should be ready to accept devices on the 5GHz radio.

If you want to change the SSID for the MESH Network log into the Master and change the 5GHz Wi-Fi SSID and Password, this configuration will propagate automatically to 2.4GHz and all slave devices.

For instructions on how to change the SSID and Password refer to **Configuring SSID and WiFi Key**.

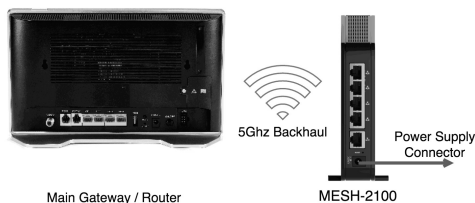
NOTE: When building your MESH network consider that the MESH-2100 acting as slave(s) can also utilize a wired or a wireless backhaul connection. Wired connectivity, if available, should always be the preferred method since it maximizes the performance of the Network as a whole.

Universal Repeater Mode Configuration

Universal Repeater Mode does not utilize the repeater MESH capabilities. Instead, the WiFi Extender is configured in repeater mode for 5GHz and access point for 2.4GHz. Universal Repeater Mode operation may be used with any WiFi gateway.

Universal Repeater Mode With Wireless Backhaul

The MESH-2100 supports operation as a repeater using its 5GHz radio for both backhaul connectivity and access point (repeater mode).



To configure the MESH-2100 in universal repeater mode with wireless backhaul:

- Go to **5G Wi-Fi > Config**:
- Set **Device Mode** as **Repeater**



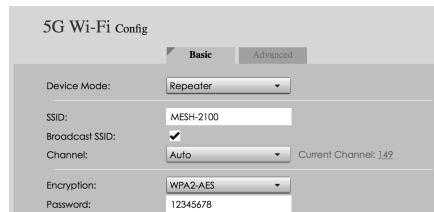
MESH-2100 will reboot and return in repeater mode

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- In **Password** enter the shared passphrase used to connect to the WiFi Network



4. Configure the Backhaul WiFi Connection

This step configures the backhaul WiFi connection between the repeater and main home gateway for the 5GHz radio to act as a regular WiFi Station.

There are two options for configuring the backhaul WiFi connection:

- Select an **SSID**
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Select an SSID

- Click **Scan AP** or select the SSID to be used for backhaul WiFi

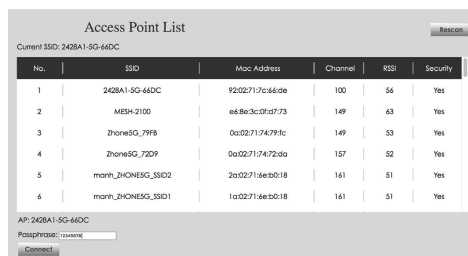


A pop-up window or tab will appear

- Click the desired **SSID**

If the desired SSID does not appear click **Rescan**

- Complete the **Passphrase** field
- Click **Connect**



Manual SSID Creation

- In **STA SSID** enter the name of the WiFi backhaul network
- In **STA Encryption** select the security encryption system to use on the WiFi backhaul network
- In **STA Password** enter the shared passphrase used to connect to the WiFi backhaul network



After the 5GHz configuration is done the MESH-2100 should be ready to accept devices on the 5GHz radio.

FCC Statement:

FCC ID: PJZMESH2100

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.

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

IC Statement:

IC : 3691A-MESH2100

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
 (1) This device may not cause interference.
 (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes :

- L'appareil ne doit pas produire de brouillage;
- L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with IC RSS - 102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Cet équipement est conforme aux limites d'exposition aux radiations IC CNR - 102 établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

Le dispositif utilisé dans la bande 5150-5250 MHz est réservé à une utilisation en intérieur afin de réduire le risque de brouillage préjudiciable aux systèmes mobiles par satellite dans le même canal;