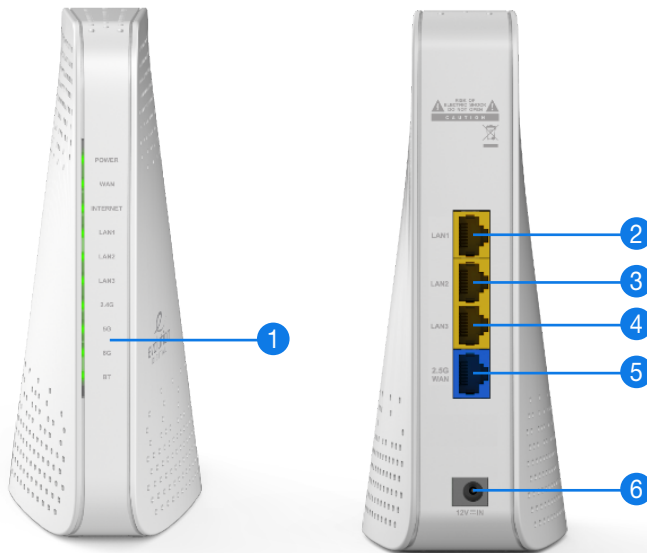


# AR1840

## Quick Installation Guide

### 1. AR1840 overview

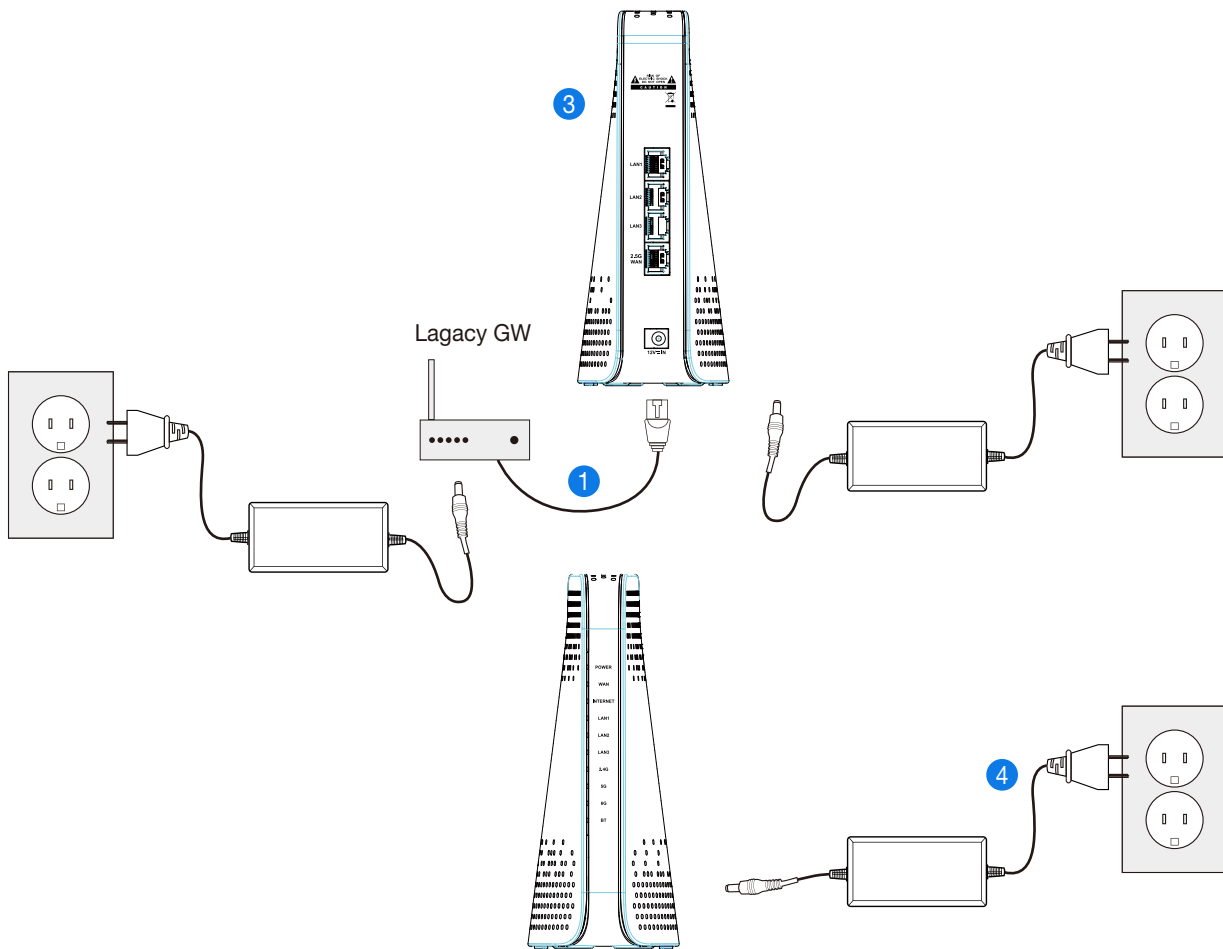


- ① LED (Power, WAN, INTERNET, LAN1, LAN2, LAN3, 2.4G, 5G, 6G, BT)
- ② LAN1
- ③ LAN2
- ④ LAN3
- ⑤ 2.5G WAN
- ⑥ Power Connector

### LED Scenario

The light on the front side of your AR1840 gives you information about the AR1840's operation.

LED	COLOR	Blinking	Solid	Off
PWR	Green		AP router is ready	Power is not supplied to the router
WAN	Green	The 2.5G WAN port is sending or receiving data	A power-on device is connected to the WAN port	No device is connected to this WAN port
INTERNET	Green		AP router is connected to Internet	Internet is not connected to the router
LAN1	Green	The LAN1 port is sending or receiving data	A power-on device is connected to the LAN1 port	No device is connected to this LAN1 port
LAN2	Green	The LAN2 port is sending or receiving data	A power-on device is connected to the LAN2 port	No device is connected to this LAN2 port
LAN3	Green	The LAN3 port is sending or receiving data	A power-on device is connected to the LAN3 port	No device is connected to this LAN3 port
2G	Green	The route is sending or receiving Wi-Fi traffic	The 2.4GHz radio is operating	The 2.4GHz radio is off
5G	Green	The route is sending or receiving Wi-Fi traffic	The 5GHz radio is operating	The 5GHz radio is off
6G	Green	The route is sending or receiving Wi-Fi traffic	The 2.4GHz radio is operating	The 2.4GHz radio is off
BT	Green	The route is sending or receiving Bluetooth traffic	The Bluetooth radio is operating	The Bluetooth radio is off



## 2. Quick Mesh Setup : Option #1

### To set up AR1840 Master and Slaves:

- Step 1.** Connect your legacy GW to the WAN 2.5G port on your AR1840 using the included Ethernet cable.
- Step 2.** Connect your AR1840(Master) to a power source.
- Step 3.** Wait for the AR1840 master's Power LED to light solid green and the 2.4G, 5G and 6G LED lights solid green.
- Step 4.** Place the AR1840 slave about 3 meters from the AR1840 master. Connect the AR1840 slave to a power source.
- Step 5.** Wait for the AR1840 slave's power LED to light solid green and the 2.4G, 5G and 6G LED lights solid green.
- Step 6.** Wait for the AR1840 INTERNET LED to light solid green to all connected the AR1840 slaves.
- Step 7.** Wait for about 3-4 minutes until mesh pairing is complete and the AR1840 slave's INTERNET LED lights solid green
- Step 8.** Place your mesh extender(s) in the desired location(s) in the household and ensure that the Signal LED stays solid green.

Note: You'll get the best signal when it is in an open space like on a shelf or a table.

### 3. Quick Mesh Setup: Option #2 → Mobile App

#### Step 1. Download the Kaon Wi-Fi App

Scan the unique QR code below, or go to Google Play or the Apple App Store to download the Kaon WiFi app. Install the app on a compatible iPhone or Android smartphone.






Follow the step-by-step instructions on the App to connect your home gateway2

#### Step 2. Launch the Wi-Fi app. **Select Set up manually**

#### Step 3. **Go to Wi-Fi settings** to connect to your network (AR1840 Wi-Fi Network)

**Step 4.** Tap **Find my device**, enter your login information printed on a label on the bottom of the AR1840 and tap Login. You can see the dash board of the app after you successfully set up your Wi-Fi network.

**Step 5.** . Add AR1840 to an existing Wi-Fi network, tap  icon on the top right hand corner of the dashboard. Tap  to add new AR1840 and scan QR code printed on a label on the bottom of the AR1840, then tap **Create Mesh**.

**Step 6.** Customize the network name and password.  
Tap  icon on the top right hand corner of the dashboard, and select the Wi-Fi settings to create your own network name (SSID) and password.

Note: If your device disconnects from the Wi-Fi network, view the available Wi-Fi network and then choose the new network name (SSID) and enter the new password.

### 4. Accessing your AR1840 from WebUI

#### Step 1. Access the web-based setup page

- Connect your PC to the working AR1840 (master mode)'s wireless network (SSID).
- WebUI address, ID and the password are located at the label at the bottom of your device.
- Launch a web browser (Internet Explorer or Chrome).
- Enter `http://192.168.1.1` or `http://kaonmesh_####` (#### is the last 4 digits of the working AR1840's serial number) in the address bar, then press.
- Enter the default user name, "admin" and "password", password in the fields.

Note : You can view and change your Wi-Fi name (SSID) and password, and see all your AR1840 configured as a mesh network (master and slave mode) in your Wi-Fi.

# Technical Specifications

## Network

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- DHCP v4/v6 Server/Client
- DNS Proxy
- IPv4/IPv6 Support
- IGMP(v3), IGMP Snooping, MLD
- VLAN IEEE 802.1q
- QoS : IEEE 802.1p, IPv4/IPv6, MAC, Port and DiffServ,
- WMM, WRED, WRR, Leaky Bucket Shaper Schedule

## WLAN

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- Wi-Fi Access Point
  - 2.4GHz 11ax : 2x2 (40MHz)
  - 5GHz 11ax : 4x4 (160MHz)
  - 6GHz 11ax : 2x2 (160MHz)
- 20/40/80/160 MHz Channels
- Multi SSIDs
- Band Steering

## 802.11ax

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- UL and DL OFDMA AP & STA Support
- 11ac and 11ax MU-MIMO
- 4x Symbol Size
- Target Wake Times(TWT)
- 11ax Range Extension mode
- 1024 QAM

## Smart Wi-Fi

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- Mesh
- Smart Roaming (AP Steering)
- 802.11 k/v/r
- Band-steering

## Accessory

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- 12V / 2.0A Power Adaptor
- Ethernet Cable
- User Manual

## Management/ Diagnostics/ Configuration

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- TR-069, TR-181v2
- TFTP, FTP
- WEB/UI(HTTP/HTML), Remote Diagnostics

## Firewall

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- Stateful Packet Inspection Firewall
- MAC Address Filtering
- Hacker Intrusion Prevention
- VPN Support
- DMZ Support

## Compliance/Certificates

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- FCC\*, CE\*
- Wi-Fi Alliance EasyMesh\*\*

(\*Pending / \*\* Optional)

## Physical Interface

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- Front Panel
  - LEDs
- Rear Panel
  - 1 x 2.5GbE WAN Port
  - 3 x GbE LAN Ports
  - Factory Reset Button
  - Power Input

## Highlight Features

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- Graphical Connection View
- Content Sharing and Media Center

## Mechanical & Environmental Specification

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- Operating Temperature : 0°C (32°F) ~ 40°C (104°F)
- Humidity : 10 ~ 90% (Non-condensing)
- Dimensions(W x D x H) : 72 x 138 x 2175 mm

\* Note. The specification subject to change.

## FCC 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.

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

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

## FCC WIFI 6E Statement:

- 1、 FCC regulations restrict the operation of this device to indoor use only.
- 2、 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.
- 3、 Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.

## ISED Statement:

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 :

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

1、 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;

1、 les dispositifs fonctionnant dans la bande 5 150-5 250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Cet émetteur ne doit pas être Co-placé ou ne fonctionnant en même temps qu'aucune autre antenne ou émetteur. Cet équipement devrait être installé et actionné avec une distance minimum de 20 centimètres entre le radiateur et votre corps.

**ISED WIFI 6E Statement:**

Devices shall not be used for control of or communications with unmanned aircraft systems.

Low-power indoor access points and indoor subordinate devices shall bear statements acknowledging both of the following restrictions in the user manual and, where feasible, in a conspicuous location on the device:

- Operation shall be limited to indoor use only.
- Operation on oil platforms, automobiles, trains, maritime vessels and aircraft shall be prohibited except for on large aircraft flying above 3,048 m (10,000 ft).