



Open Mesh Inc.  
5837 NW Skyline BlvdPortland, OR, 97229, USA.



# Setup Guide

Professional Wireless Mesh Router  
Model OMIP



Our networks put WiFi where people live, work and play all over the world

## Installing your new Mesh Network



*Each wireless mesh router includes a power adapter. You will also need one Ethernet cable to connect to your DSL or cable modem. Note the power adapter is country-specific and is either 110v (US/CAN) or 220v (Europe)*

### Step 1 — Install your Gateway

A gateway is a wireless mesh router that is connected to the internet directly via a DSL or cable modem or into an existing network router or Ethernet switch.

**First**, connect an Ethernet cable to one end (both ends of the cable are identical) of the Gateway and the other into your existing router.



**Next**, plug in the Gateway to AC power.

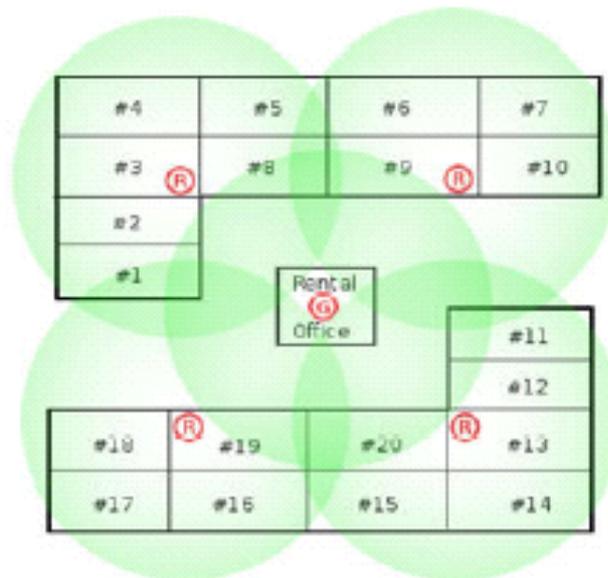
All three lights on the gateway should come on within a few seconds. Wait a few minutes until the WLAN light begins blinking. This indicates that your gateway is up and running.

**Congratulations!!** You have successfully installed the first router on your network. Now you need to expand its range...

## Step 2 — Install the Repeaters

Each repeater extends the range of the gateway. We recommend placing your gateways as central to the project as possible. See the example picture of a hypothetical 2 building apartment complex below. In this example, the gateway has been placed in a central rental office. The red circles indicate the routers and green circles indicate approximate coverage of each. You can see they overlap—this is essential to creating a robust mesh network.

**Tip:** Your wireless mesh routers typically have a range of about 50-150 feet (about 15-50 meters) indoors. Range can be considerably less if you are trying to penetrate stone or cement walls so try to place your repeaters to avoid them where possible. If you can't, additional repeaters may be needed.



As you install each repeater, write down the location and MAC ID (found on the back of each unit). In the next step, you'll add these nodes to the Dashboard for monitoring and reporting of your mesh network.

It is a good idea to check the repeater's connection by associating a wireless laptop with each node as you install it (look for the SSID "open-mesh"). The "internet" light won't come on for repeaters. Wait for the WLAN light to begin blinking, then turn the laptop's wireless switch off for a few seconds then on again before you test to make sure you are connected to the new repeater.



## Step 3 — Configure your Network

### Login to <http://dashboard.open-mesh.com>

If this is your first time on our Dashboard, select “**Add Network**”. Be sure to include the physical location of the network. If you don't have the full address, enter the zip code (US) or city, country. This makes adding your nodes easier via the Google Map. If you already have a network you are expanding, select “**Edit Network**” and login.

### Place your nodes on the map

Select the “**Add/Edit Nodes**” button and place each node on the map by clicking and dragging it to the correct location. Click on the map exactly where you have placed the node. Enter the details for each node in the pop-up box for that node. You will need the IP or MAC ID of each node (found on the back of each unit). Give each node a name (usually a room number or location in the building or address in your neighborhood). Clicking the “**Satellite**” button will sometimes let you zoom to a closer level and show buildings, making placement easier.

### Edit your network settings

Close the map and customize your network by setting your network names (SSIDs), download/upload bandwidth for your users, create your own splash page and more.

You can see the status of your network at any time by clicking “**View Status**” on the Dashboard login page.

### Certifications:

FCC, IC, CE. The antennas used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons. Please see <http://www.open-mesh.com/activekb/certifications> for complete certification information.



**Warning 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.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

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

**FCC RF Radiation Exposure Statement:**

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.