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OWA011

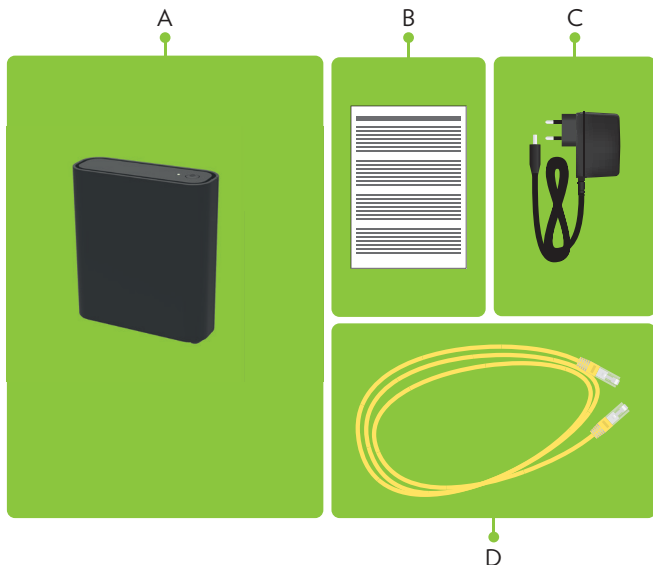
## **QUICK SETUP GUIDE**

## 1. Before you start

- Carefully read the **Safety Instructions and Regulatory Notices** document included in your package before continuing with the installation of your OWA0111.
- Do not make any connections until instructed to do so!

## 2. Check the content of your box

Your package contains the following items:



Item	Description
A	One OWA0111.
B	User Documentation (this Quick Setup Guide, Safety Instructions & Regulatory Notices...). Other additional documents may be included.
C	One power supply adapter.
D	One Ethernet cable with yellow connectors.

## 3. About the OWA0111

### 3.1. Wi-Fi

#### Wi-Fi general

The OWA0111 is equipped with:

- One 5 GHz Wi-Fi 6 (IEEE802.11ax) interface that provides superior transfer rates and is less sensitive to interference.
- One 2.4 GHz Wi-Fi 6 (IEEE802.11ax) interface which allows you to connect Wi-Fi devices that don't support 5 GHz Wi-Fi.

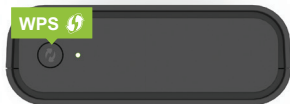
#### Wi-Fi 6

Enabled with the latest Wi-Fi 6 technology, the OWA0111 offers ultimate wireless networking by improving latency, providing faster throughputs, better performance and optimal link stability in your local network.

#### EasyMesh

The OWA0111 supports EasyMesh (as EasyMesh agent) that allows you to bring an ultimate in-home Wi-Fi experience by creating a unified intelligent Wi-Fi environment throughout your home using multiple EasyMesh-enabled access points.

### 3.2. Top panel



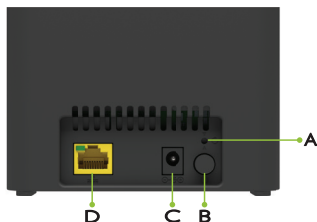
#### WPS button and Status LED (item A)

The **WPS** button on the top panel of your OWA0111 is used to pair the OWA0111 with other Wi-Fi devices and the **Status** LED on the side of WPS button informs you about the status of your OWA0111.



If the **Status** LED of your OWA0111 is flashing green, your OWA0111 is updating its software. In this case, wait until the LED becomes slowly blinking green. This can take several minutes! Do not power off your gateway or unplug any cables!

### 3.3. Back panel and bottom product label



#### Reset button (item A)

When the OWA0111 is powered on and you press the **Reset** you can restart or reset it. For more information, see “5.8. How to repair an unresponsive Wi-Fi extender” on page 11.

#### Power button (item B)

The power button allows you to power the OWA0111 on or off.

#### Power port (item C)

The power port allows you to connect the power supply.

**Warning:** Only use the power supply delivered with your OWA0111.

#### Ethernet LAN port (item D)

The Ethernet LAN port allows you to connect an Ethernet device (for example a set-top box, a NAS drive).

## 4. Set up

The OWA0111 can be used:

- As a **wired Wi-Fi 6 home network enabler**.

You will use this scenario in case your Internet gateway and/or home network has no Wi-Fi, or Wi-Fi capabilities without Wi-Fi 6.

For this scenario, see “4.1. Wired Wi-Fi 6 home network enabler” on page 4.

- As a **wireless Wi-Fi 6 home network enabler**.

You will use this scenario in case your Internet gateway and/or home network has Wi-Fi, but no Wi-Fi 6 and/or EasyMesh.

For this scenario, see “4.2. Wireless Wi-Fi 6 home network enabler” on page 5.

- As an **EasyMesh home network extender**.

You will use this scenario in case you want to extend your existing EasyMesh Wi-Fi home network with additional coverage using the OWA0111. In such environment your Internet gateway or another Wi-Fi device is already operating as the Wi-Fi EasyMesh controller.

For this scenario, see “4.3. EasyMesh home network extender” on page 6.



To join an existing EasyMesh home network, you must first enable EasyMesh on your OWA0111 via its GUI. For more information, see “5.7. Configure your Wi-Fi extender to your needs” on page 10.

## 4.1. Wired Wi-Fi 6 home network enabler

This scenario allows you to add Wi-Fi 6 coverage using the OWA0111.



You will connect the OWA0111 to your Internet gateway either:

- Directly using an Ethernet cable.
- Indirectly via a powerline adapter or similar.

### Step 1: Set up the Wi-Fi extender

- 1 Take the included Ethernet cable (this is the cable with the yellow connectors). Connect one end of the Ethernet cable to the yellow Ethernet LAN (◀•••▶) port on the back of your OWA0111. Connect the other end of the Ethernet cable to an Ethernet or LAN port of your Internet gateway.
- 2 Take the power supply, plug the small end into the power inlet port (-C+) of the OWA0111 and then plug the other end into a nearby power outlet.
- 3 Press the power (⏻) button on the back of the OWA0111. The **Status** LED will first be solid yellow during startup, then turns green. If this is not the case, check the connections you made.
- 4 Wait until the **Status** LED turns green before connecting your Wi-Fi devices.

## Step 2: Connect your Wi-Fi devices

If your Wi-Fi device:

- Supports WPS, use WPS to pair it with the OWA0111. For more information, see “5.4. Pairing Wi-Fi devices to your OWA0111” on page 9.
- Does not support WPS, configure it with the Wi-Fi network name (SSID) and wireless key that are printed on the product label on the bottom of the OWA0111. For more information, consult the user documentation of your device.

## Step 3: Connect an Ethernet device (optional)

You can use the OWA0111's yellow Ethernet LAN (◀...▶) port to connect an Ethernet device (for example, a Set-Top Box, a NAS drive or computer) to your home network.

### 4.2. Wireless Wi-Fi 6 home network enabler

This scenario allows you to add (extra) Wi-Fi 6 coverage using the OWA0111.



## Step 1: Set up the Wi-Fi extender

- 1 Position your OWA0111 half-way between your Internet gateway (or extender) and your Wi-Fi devices.
- 2 Take the power supply, plug the small end into the power inlet port (-C+) of the OWA0111 and then plug the other end into a nearby power outlet.
- 3 Press the power (⏻) button on the back of the OWA0111. The **Status** LED will first be solid blue during startup.
- 4 Wait until the **Status** LED slowly blinks green.
- 5 Pair the OWA0111 with your Internet gateway (or extender) using WPS. For detailed instructions, see “5.2. Pairing the OWA0111 with your Internet gateway” on page 7.
- 6 Check the link quality via the **Status** LED on the OWA0111. If it is:
  - **OFF**, then link has no CPE connected.
  - **ON**, then link has CPE connected, but no data activity.
  - **Flash**, then link has data activity.

See “5.6. Optimizing the link quality” on page 10 for more information.

## Step 2: Connect your Wi-Fi devices

If your Wi-Fi device:

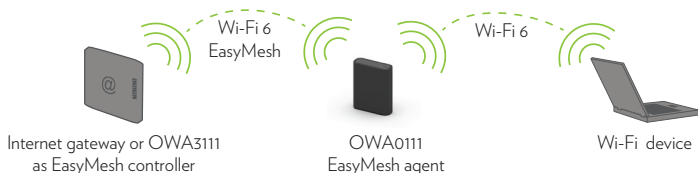
- Supports WPS, use WPS to pair it with the OWA0111. For more information, see “5.4. Pairing Wi-Fi devices to your OWA0111” on page 9.
- Does not support WPS, configure it with the Wi-Fi network name (SSID) and wireless key that are printed on the product label on the bottom of the OWA0111. For more information, consult the user documentation of your device.

## Step 3: Connect an Ethernet device (optional)

You can use both of the OWA0111's Ethernet ports to connect Ethernet devices (for example, a Set-Top Box, a NAS drive or computer) to your home network.

### 4.3. EasyMesh home network extender

This scenario allows you to extend Wi-Fi coverage in your home by retransmitting Wi-Fi messages from your existing Wi-Fi EasyMesh network.



## Requirements



Your Internet gateway or another EasyMesh-capable Wi-Fi device must be enabled and configured as the EasyMesh controller.

## Step 1: Set up the repeater and onboard to the EasyMesh network

- 1 Position your OWA0111 half-way between your Internet gateway (or extender) and your Wi-Fi devices.
- 2 Take the power supply, plug the small end into the power inlet port (⚡) of the OWA0111 and then plug the other end into a nearby power outlet.
- 3 Press the power (⏻) button on the back of the OWA0111. The **Status** LED will first be solid blue during startup.
- 4 Wait until the **Status** LED slowly blinks green.
- 5 Enable EasyMesh on your OWA0111 if not done yet. For more information, see “5.7. Configure your Wi-Fi extender to your needs” on page 10.

- 6 Onboard the OWA0111 to the EasyMesh network using WPS. For detailed instructions, see “5.3. *Joining your OWA0111 with an existing EasyMesh network*” on page 8.
- 7 Check the link quality via the **Status** LED on the OWA0111. If it is:
  - **OFF**, then link has no CPE connected.
  - **ON**, then link has CPE connected, but no data activity.
  - **Flash**, then link has data activity.See “5.6. *Optimizing the link quality*” on page 10 for more information.

## Step 2: Connect your Wi-Fi devices

Because the OWA0111 now uses the same Wi-Fi settings as the EasyMesh home network, Wi-Fi devices that were already connected to your home network will also be able to connect to the OWA0111, and vice versa.

## Step 3: Connect your Ethernet devices (optional)

You can use both of the OWA0111's Ethernet ports to connect Ethernet devices (for example, a Set-Top Box, a NAS drive or computer) to your home network.

# 5. Tips and tricks

## 5.1. Making a wired connection between the OWA0111 and your Internet gateway

- 1 Take the included Ethernet cable (this is the cable with the yellow connectors).
- 2 Connect one end of the Ethernet cable to the yellow Ethernet LAN (◀•••▶) port on the back of your OWA0111.
- 3 Connect the other end of the Ethernet cable to an Ethernet or LAN port of your Internet gateway.

## 5.2. Pairing the OWA0111 with your Internet gateway

### Requirements

Make sure your OWA0111 isn't onboarded already to an existing EasyMesh home network, or paired with another Internet gateway.

### Procedure

- 1 Briefly press the **WPS** (🔑) button on the OWA0111. The **Status** LED on the OWA0111 starts blinking green.



- 2 Within two minutes, briefly press the **WPS** button on your Internet gateway (or a Wi-Fi extender connected to it).

**Note:** On some Internet gateways you may have to press and hold the WPS button for a few seconds or until its **WPS** LED starts blinking.

- 3 After some time the **Status** LED on the OWA0111 turns green. The Wi-Fi connection is now successfully established.

**Note:** If the **Status** LED is blinking red, go to “5.5. What to do when the Status LED is blinking red?” on page 9 for further instructions.

- 4 Check the link quality via the **Status** LED on the OWA0111. If it is:

- **OFF**, then link has no CPE connected.
- **ON**, then link has CPE connected, but no data activity.
- **Flash**, then link has data activity.

See “5.6. Optimizing the link quality” on page 10 for more information.

### 5.3. Joining your OWA0111 with an existing EasyMesh network

#### Requirements

Make sure your OWA0111 isn't joined already to an existing EasyMesh home network.

#### Procedure

- 1 Briefly press the **WPS** (🔑) button on the OWA0111. The **Status** LED on the OWA0111 starts blinking green.
- 2 Within two minutes, briefly press the **WPS** button on your Internet gateway or any Wi-Fi extender in the EasyMesh home network.

**Note:** On some Internet gateways you may have to press and hold the WPS button for a few seconds or until its **WPS** LED starts blinking.

- 3 During EasyMesh onboarding the **Status** LED on the OWA0111 goes through (one or more of) the following states:
  - **Flashing green & yellow (1 second each):** EasyMesh onboarding started and ongoing.
  - **Flashing green (1 second) & yellow (3 seconds):** No EasyMesh network was found.

Once the the Wi-Fi connection is successfully established it will turn solid green, yellow or red.

**Note:** If the **Status** LED is blinking red, go to “5.5. What to do when the Status LED is blinking red?” on page 9 for further instructions.

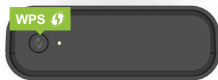
- 4 Check the link quality via the **Status** LED on the OWA0111. If it is:
  - **OFF**, then link has no CPE connected.
  - **ON**, then link has CPE connected, but no data activity.
  - **Flash**, then link has data activity.

See “5.6. Optimizing the link quality” on page 10 for more information.

## 5.4. Pairing Wi-Fi devices to your OWA0111

### Connecting your Wi-Fi devices using WPS

- 1 Briefly press the **WPS** (🔗) button on the OWA0111. The **Status** LED on the OWA0111 starts blinking green.
- 2 Within two minutes, start WPS on your Wi-Fi device. If your Wi-Fi device is:
  - Another Wi-Fi extender, briefly press its **WPS** button.
  - Another type of device, consult the documentation of your device.
- 3 After some time the **Status** LED on the OWA0111 turns back to its previous solid state (green, yellow or red). The Wi-Fi connection is now successfully established.



**Note:** If the **Status** LED is blinking red, go to “5.5. What to do when the Status LED is blinking red?” on page 9 for further instructions.

## 5.5. What to do when the Status LED is blinking red?

This indicates that the OWA0111 could not establish a Wi-Fi connection through WPS.

Do the following:

- 1 Wait until the red blinking LED goes out, then try using WPS again.
- 2 Turn your OWA0111 slightly and then try again.
- 3 Obstructions may deteriorate the signal strength. Try to minimize the number of walls between the two devices and then try again.
- 4 Move the devices closer to each other and then try again.

## 5.6. Optimizing the link quality

### Tips

To achieve optimal link quality:

- Always try to reduce the number of obstacles (especially walls) between your Wi-Fi devices to a minimum.
- Do not place your Wi-Fi devices in the neighbourhood of devices that cause interference (microwave ovens, cordless phones, baby monitors, etc.).
- Use Wi-Fi devices that support and use (multiple) 5 GHz Wi-Fi.

### Status LED

If the OWA0111 has a Wi-Fi connection to an Internet gateway, extender or repeater (with or without EasyMesh), the **Status** LED will provide information about the quality of the link between them.

If the **Status** LED is:

- **Solid green**: then the link quality is optimal. No further actions are needed.
- **Solid yellow**: then the link quality is fair, but not optimal. Change the position of the OWA0111 until the LED turns green.
- **Solid red**: then the link quality is bad. Change the position of the OWA0111 until the LED turns green.

### Repositioning the OWA0111 for better link quality

First try to improve the link quality without unplugging the power supply:

- 1 Reposition the OWA0111 to avoid obstacles, like walls, furniture and TV screens, between the OWA0111 and your access point.
- 2 Wait 15 seconds to allow the OWA0111 to re-evaluate the link quality.

If the link quality did not improve:

- 1 Unplug the power supply and move the OWA0111 closer to your access point, or to a place with less obstacles between the OWA0111 and your access point.
- 2 Plug in the power supply and wait two minutes to allow the OWA0111 to start up all services and evaluate the link quality.

## 5.7. Configure your Wi-Fi extender to your needs

### Accessing the OWA0111 web interface



The Wi-Fi extender web interface allows you to configure your Wi-Fi extender using your web browser. To access the Wi-Fi extender web user interface:

- 1 Check the IP address of your OWA0111. If your OWA0111:
  - Is connected to your home network (either wired or via Wi-Fi), browse to the web interface of your gateway to check the IP address of the OWA0111.
  - Not connected to your home network, the default IP address of the OWA0111 is **192.168.1.2**.
- 2 Browse to the OWA0111's IP address found (or <http://192.168.1.2>) on a computer or device that is currently connected to your Wi-Fi extender (either wired or over Wi-Fi).
- 3 The Wi-Fi extender web interface appears. By default, you are logged in as guest. This means that some items are hidden. To view all items, click **Sign In** and enter **admin** as user name and the **ACCESS KEY** printed on the label of your Wi-Fi extender as password.

**Note:** If this is the first time that you sign in, the OWA0111 may offer you to change your password.
- 4 The Wi-Fi extender web interface appears with all settings available.

## Configuring Easy Mesh

To use EasyMesh you must first enable it on your OWA0111. To enable EasyMesh:

- 1 Browse to the Wi-Fi extender web user interface and login as the user **admin** (for more information, see *"Accessing the OWA0111 web interface" on page 10*).
- 2 To open the EasyMesh page, click the **EasyMesh** card header.
- 3 On the EasyMesh page, you can see whether EasyMesh is enabled on your Wi-Fi extender or not. If the switch is set to:
  -  then the EasyMesh agent is enabled. Clicking the switch will disable EasyMesh on your Wi-Fi extender.
  -  then the EasyMesh agent is disabled. Clicking the switch will enable your broadband interface.

## 5.8. How to repair an unresponsive Wi-Fi extender

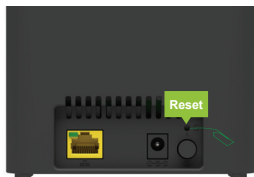
If at some point your Wi-Fi extender becomes unresponsive you can:

- **Force it to restart:** After restarting the OWA0111 will return to normal operation with its last known working condition and configuration.
- **Reset it to factory defaults:** The OWA0111 restarts with the factory default configuration. None of the Wi-Fi and EasyMesh settings, nor other configuration changes you made to the OWA0111 are preserved.

Proceed as follows:

- 1 Make sure that your Wi-Fi extender is turned on.

- 2 Use a pen or an unfolded paperclip to push the recessed **Reset** button on your Wi-Fi extender:
- *shortly (1 to 2 seconds)* and then release it to force it to restart.
  - *for at least 10 seconds* and then release it to reset it to factory defaults.



- 3 Your Wi-Fi extender restarts..

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