

# Quick Installation Guide for Optical Network Router




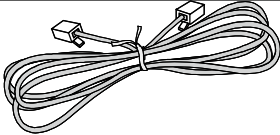
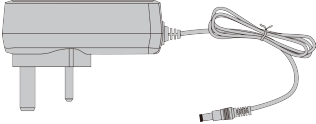

# Technical Specifications

- Power supply: 12 V DC, 2 A
- Power adapter input: 100 - 240 V AC, 50 - 60 Hz
- System power supply: See the nameplate on the device
- Ambient temperature: 0°C to +40°C
- Ambient humidity: 5% - 95% RH (non-condensing)
- Weight: < 500 g
- System power consumption:  $\leq 15$  W

## Product Overview

Product	Feature
Optical Network Router (ONR)	<ul style="list-style-type: none"><li>■ 4 Ethernet ports</li><li>■ 2 POTS ports</li><li>■ 1 USB 2.0 port</li></ul>

# 1. What's in the box?

Name	How it looks like
ONR	 A black, rectangular Optical Network Router (ONR) with a perforated front panel. The text "Optical Network Router" is printed at the top, and "10000 1000 1000 1000 1000 1000 1000 1000 1000 1000" is printed at the bottom.
Cat5e cable (Grey)	 A coiled grey Cat5e Ethernet cable with RJ45 connectors on both ends.
Power adapter	 A grey power adapter with a three-pronged AC input plug and a DC output cable with a barrel jack connector.
Quick installation guide	 A white and grey quick installation guide booklet. The cover features the text "Optical Network Router" and "Quick Installation Guide" above an image of the router.

## 2. Suggested Placement of ONR



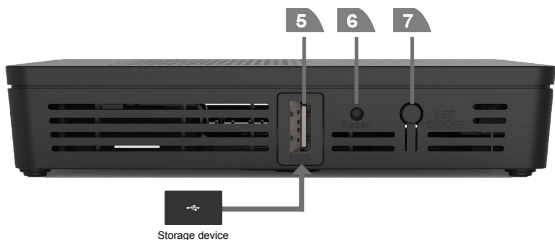
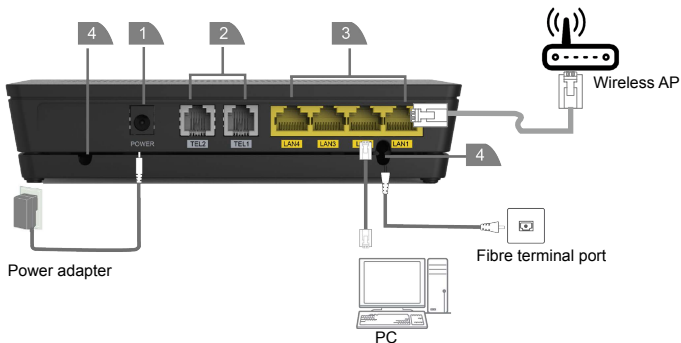
### Caution

Do not install ONR outdoors or in cabinets which may be exposed to sun and rain.

ONR should be horizontally placed at an open area, such as on your work desk. Ports at the back of ONR should be unobstructed.



### 3. Connecting Cables and Devices to ONR



1 Power port

2 N/A

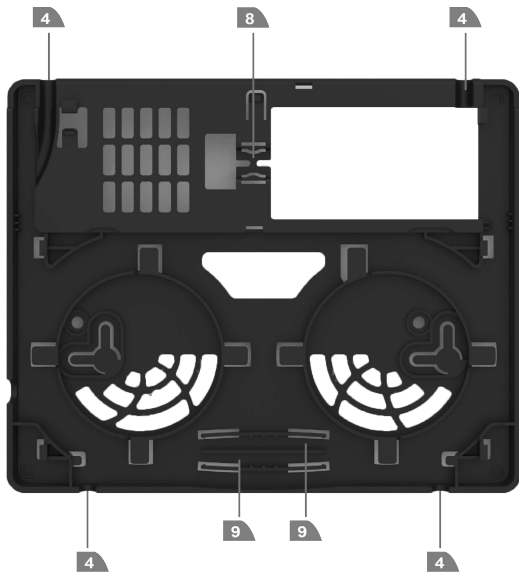
3 Four ethernet ports

4 Fibre port

5 USB port

6 Reset button

7 LED ON/OFF



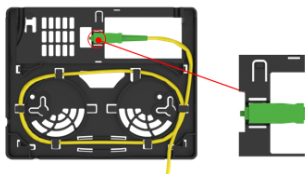
**8** Fibre connector holder    **9** Fibre splicing slot

## Step 1: Follow instructions below to perform fibre patching.

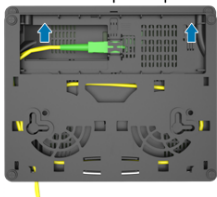
- 1 To remove fibre management tray, push the bottom section of ONR towards the direction as shown by the arrow below.



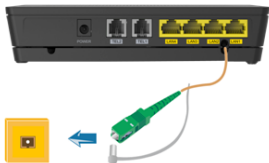
- 2 Locate the fibre connector holder circled in red in the figure below. After inserting the fibre connector, coil fibre optic cable along the fibre management tray as shown below.



- 3 Attach the fibre management tray back by pushing it towards the direction as shown by the arrows in the figure below. Remove fibre optic cable from its holder and insert into the optical port of ONR.



- 4 Connect the other end of the patch cord to the fibre termination point (FTP).



### NOTE

As fibre optic cables are made of glass, please do not bend sharply and ensure the bending diameter is larger than 60 mm.

Step 2: Connect Cat5e cable (black) from the Ethernet port of your device to a **LAN** port.

Step 3: If you have a USB data cable, connect it the **USB** port to your USB device (optional).

Step 4: Connect the power adapter to ONR's **POWER** port and your home electrical outlet. The **POWER** indicator on the ONR should be green.

## 4. Configuring the ONR

### 4.1 Logging in to the webpage for configuration

Step 1: Connect your PC to the ONR through the Ethernet port.

Step 2: Ensure your PC is in dynamic IP address mode.

Step 3: Enter **http://192.168.1.254** in the address bar of Internet Explorer and press **Enter**.

When login window is displayed,

- Enter the user name (**root** by default)

- Enter the password (**admin** by default)

Step 4: Click **Login**.



 NOTE

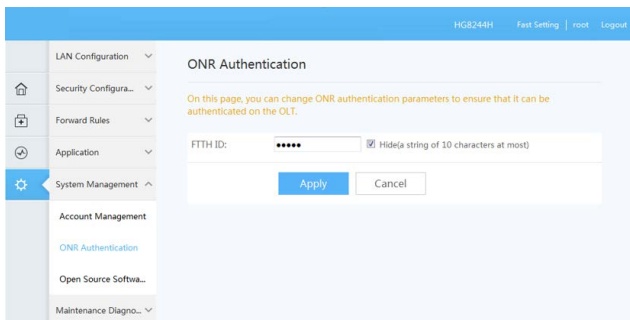
- Your session will automatically timeout after 5 minutes of inactivity and you will be required to login again.
- Replace your default password with a personal one to avoid unauthorised access.

## 4.2 Configuring the FTTH ID

Step 1: Choose **Advanced Configuration > System Management > ONR Authentication**.

Step 2: Input the **FTTH ID** (Use FTTH ID provided by operater).

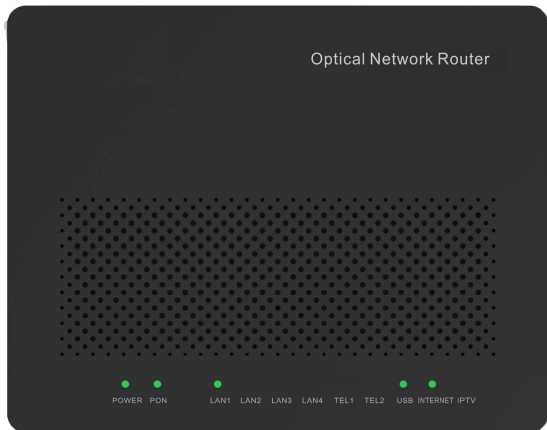
Step 3: Click **Apply**. Verify your service 15 seconds later. For how to verify the service, refer to chapter 5.



The screenshot shows a web interface for configuring ONR Authentication. The top navigation bar includes the device ID 'HG8244H', 'Fast Setting', 'root', and 'Logout'. A left sidebar contains a menu with items: LAN Configuration, Security Configura..., Forward Rules, Application, System Management (highlighted), Account Management, ONR Authentication (highlighted), Open Source Softwa..., and Maintenance Diagno... The main content area is titled 'ONR Authentication' and contains a message: 'On this page, you can change ONR authentication parameters to ensure that it can be authenticated on the OLT.' Below this is a form with a label 'FTTH ID:' followed by a text input field containing five asterisks. To the right of the input field is a checked checkbox labeled 'Hide(a string of 10 characters at most)'. At the bottom of the form are two buttons: 'Apply' and 'Cancel'.

## 5. Verifying Successfulness of Connection

- LED indicators on the ONR provide status information of each service connection. Each light mode indicates the successfulness of the connection listed in chapter 3 & 4:
  - Fibre connection is up if PON indicator is steady green.
  - Each of these services are functioning normally if LAN/Internet/USB indicators are steady green.
- If the PON indicator is blinking, check your fibre connection as stated in chapter 3, and FTTH ID configuration in chapter 4.
- See chapter 7 if other indicators display exception occurs.



## 6. Resetting Factory Defaults

- **What does it do?**

To reset all the settings except the FTTH ID.

- **How to reset?**

Press **Reset** button by using a needle-like object and hold for more than 10 seconds. If LED indicator turns off and on, your ONR has been successfully restored to factory defaults.

## 7. Indicator Description

Indicator	Status	LED Description
POWER	Steady green	The ONR is powered on.
	Off	The power supply is cut off.
	Blinking red	The ONR is upgrading.
	Steady red	Hardware self-check failed or failed to start.
PON	Steady green	Fibre connection is up.
	Off	Fibre connection is down.
	Blinking twice a second	Fibre connection set up in progress.
	Steady red	Optical signals are abnormal, please reconnect the fibre port, please connect service provider if the problem is no resolved.
LAN1 - LAN4	Steady on	Ethernet connection is in the normal state.
	Blinking	Data is being transmitted on the Ethernet port.
	Off	Ethernet connection is not set up.
USB	Steady on	USB port is connected and is working in the host mode, but no data istransmitted.
	Blinking	Data is being transmitted on the USB port.
	Off	USB port is not connected.
INTERNET	Steady on	Internet service is OK.
	Blinking	Internet data is being transmitted.
	Off	Internet service is down.
TEL1 - TEL2	N/A	N/A
IPTV	N/A	N/A