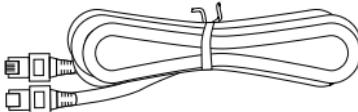# Singtel

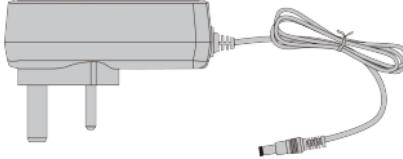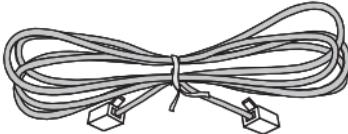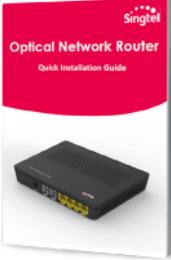# Quick Installation Guide for Optical Network Router

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: 0ºC to +40ºC
- Ambient humidity: 5% - 95% RH (non-condensing)
- Weight: < 500 g
- System power consumption: ≤ 15 W

Product Overview

Product	Feature
Optical Network Router (ONR)	■ 4 Ethernet ports ■ 2 POTS ports ■ 1 USB 2.0 port

1. What's in the box?

Name	How it looks like
ONR	
Cat5e cable	
Power adapter	
Phone cable	
Quick installation guide	

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

Wireless AP/router

POWER   TEL2   TEL1   LAN4   LAN3   LAN2   LAN1

Power adapter

TV STB

Fibre terminal port

Telephone

TV

PC

Storage device
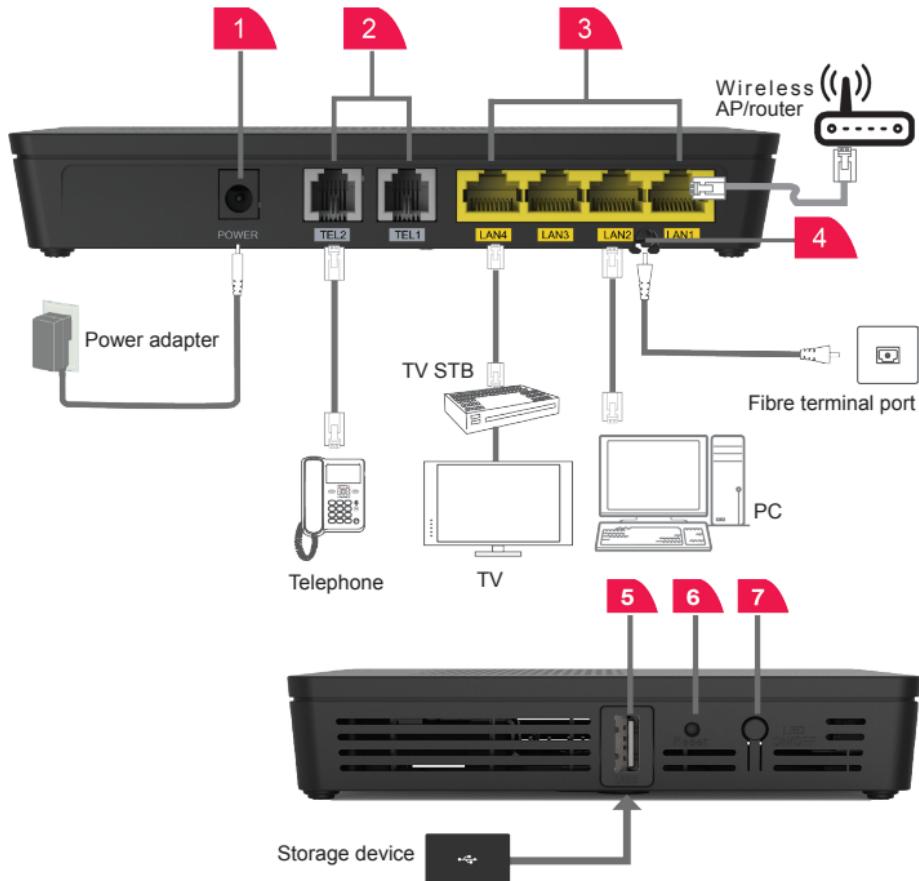
1	Power port	5	USB port
2	Two telephone ports	6	Reset button
3	Four ethernet ports	7	LED ON/OFF
4	Fibre port		

Step 1: Follow instructions below to perform fibre patching.

① Connect one end of the optical fiber to the fibre port on the back of ONR, and secure the optical fiber by fitting it on the holders. For the positions of holders, see the arrows indicated in the following figure:
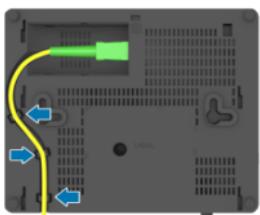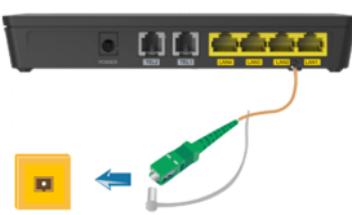
② Connect the other end of the patch cord to the fibre termination point (FTP).

📖 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: Connect phone cable (grey) from your phone to the assigned **TEL** port.

Step 4: If you have a USB data cable, connect it from the **USB** port to your USB device (optional).

Step 5: Connect the power adapter to ONR's **POWER** port and your home eletrical 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 Configutation > System Management > ONR Authentication**.

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

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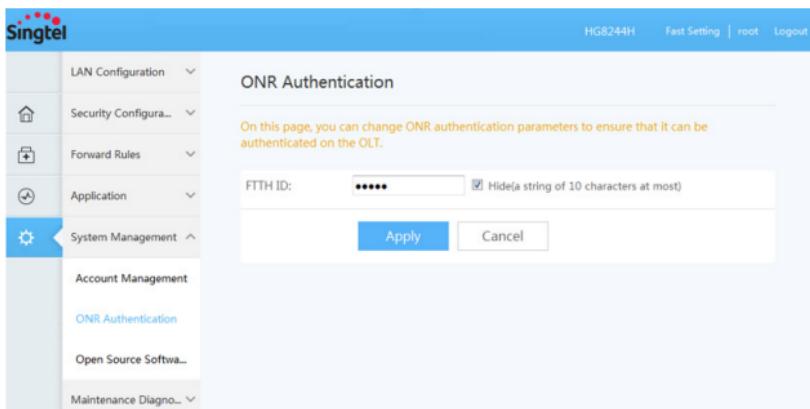
5. Verifying Successfulness of Connection

■ 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/IPTV/TEL/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.
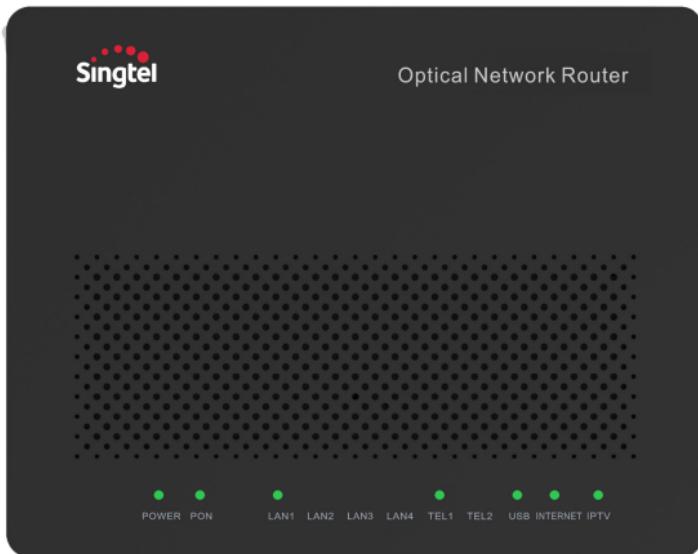
6. Resetting Factory Defaults

■ **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.
TEL1–TEL2	Steady on	Corresponding voice service is up.
	Blinking	Voice service is up and the phone is off-hook or ringing.
	Off	Voice service is down or not available.
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.
IPTV	Steady green	IPTV WAN IP address and STB detected OK.
	Blinking	No IP address obtained in IPTV interface and STB detected OK.
	Off	No STB detected.