Quick Installation Guide for GPON Optical Network Router

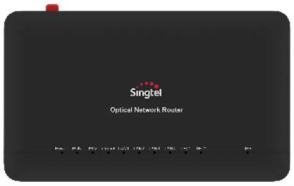
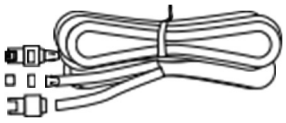
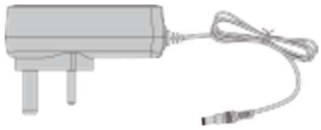
Technical Specifications

- 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: < 400 g
- System power consumption: ≤ 24 W

Product Overview

Product	Feature
GPON 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
GPON ONR	
Cat5e cable	
Power adapter	
Phone cable	

Quick installation guide	

2. Suggested Placement of ONR

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

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


USB
Reset
TEL2
TEL1
LAN4
LAN3
LAN2
LAN1
Power
ON/OFF

3. Connecting Cables and Devices to GPON ONR

1 Power port

2 Two telephone ports

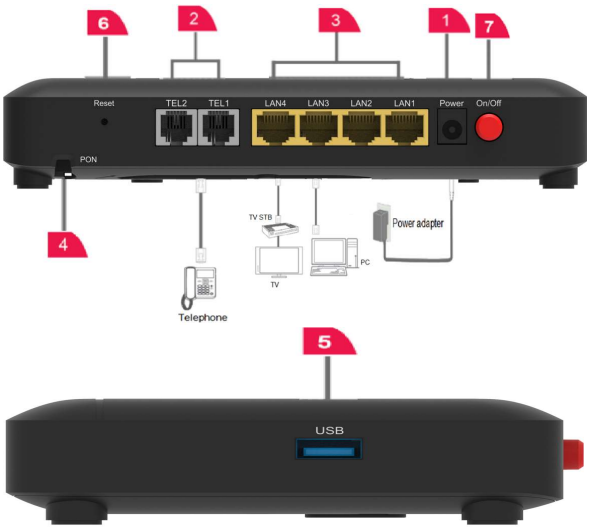
3 Four ethernet ports+10G port

4 Fibre port

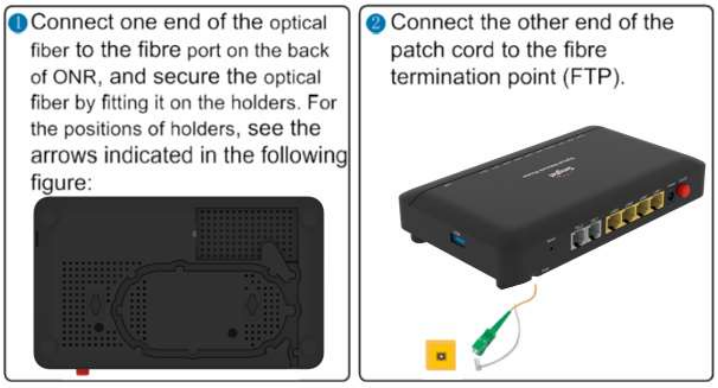
5 USB port

6 Reset button

7 Power on/off



Step 1: Follow instructions below to perform fibre patching.



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 (Blue) 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 GPON ONR's POWER port and your home electrical outlet. The POWER indicator on the GPON ONR should be green.

4. Configuring the GPON ONR

4.1 Logging in to the webpage for configuration

Step 1: Connect your PC to the GPON 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 (**print in the label**)

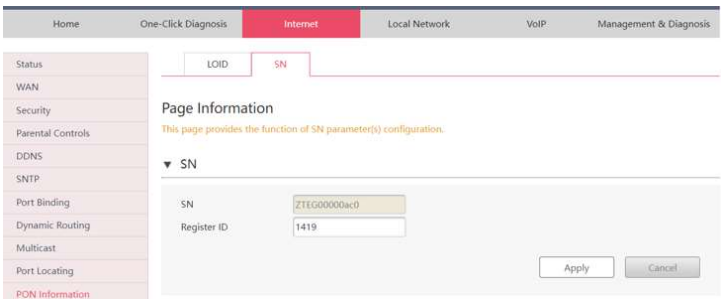
Step 4: Click **Login**.

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 Internet (header third tab) > PON Information (on the left pane) > SN (second tab)

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

Step 3: Click **Apply**. The GPON ONR will automatically reboot.

For how to verify the service, refer to chapter 5.

5. Verifying Successfulness of Connection

- LED indicators on the GPON 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 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.

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.
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.