



Quick Installation Guide for XGSPON Optical Network Router



Technical Specifications

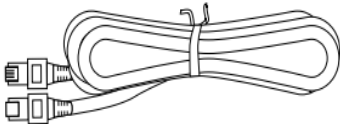
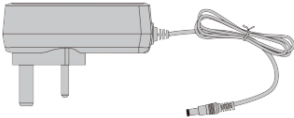
- Power supply: 12 V DC, 2 A
- Power adapter input: 100 - 240 V AC, 50 - 60 Hz
- System power supply: See the nameplate on the device
- Ambient temperature: 0°C to +40°C
- Ambient humidity: 5% - 95% RH (non-condensing)
- Weight: < 800 g
- System power consumption: ≤ 24 W

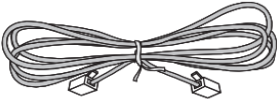
Product Overview

Product	Feature
XGSPON Optical Network Router (ONR)	■ 4 Ethernet ports
	■ 1 10G Ethernet port
	■ 2 POTS ports
	■ 1 USB 2.0 port



1. What's in the box?

Name	How it looks like
XGSPON ONR	
Cat6A cable	
Power Adapter	

Phone cable	
Quick installation guide	

2. Suggested Placement of ONR



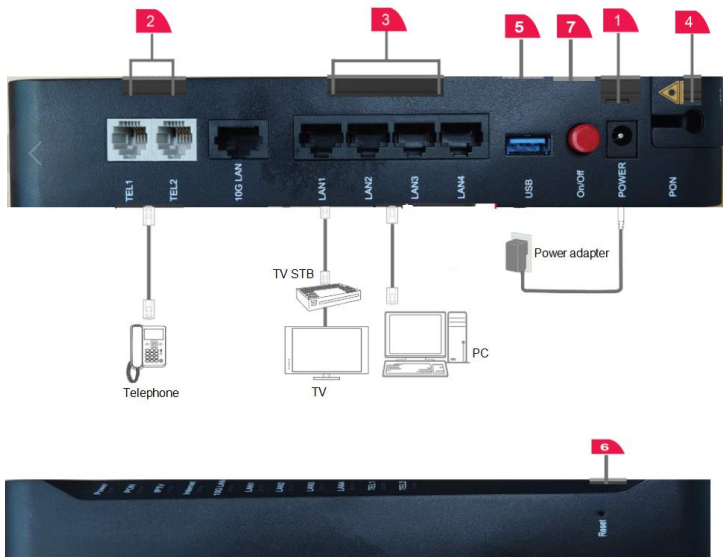
Caution

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

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



3. Connecting Cables and Devices to XGSPON ONR



1 Power port

2 Two telephone ports

3 Four ethernet ports

4 Fibre port

5 USB port

6 Reset button

7 LED ON/OFF

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 Cat6a 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 XGSPON ONR's **POWER** port and your home electrical outlet. The **POWER** indicator on the XGSPON ONR should be green.



4. Configuring the XGSPON ONR

4.1 Logging in to the webpage for configuration

Step 1: Connect your PC to the XGSPON 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)

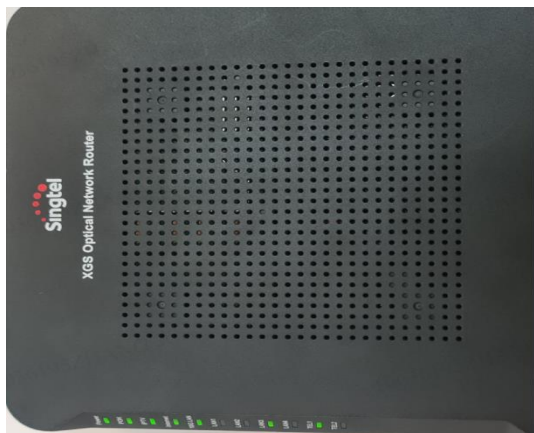
Step 2: Input the **FTTH ID** (Use FTTH ID provided by Singtel).

Step 3: Click **Apply**. The XGSPON ONR will automatic reboot. For how to verify the service, refer to chapter 5.

The screenshot shows the Singtel F8648P web interface. The top navigation bar includes the Singtel logo, current time (2023-02-23T14:13), and links for F8648P, FastSetting, support, and Logout. Below this is a secondary navigation bar with tabs: Home, One-Click Diagnosis, Internet (selected), Local Network, VoIP, and Management & Diagnosis. On the left is a sidebar menu with options: Status, WAN, Security, Parental Controls, DDNS, SNTP, Port Binding, Dynamic Routing, Multicast, Port Locating, and PON Information (highlighted in red). The main content area has two sub-tabs: LOID and SN (selected). Under the SN tab, there is a section titled 'Page Information' with a note: 'This page provides the function of SN parameter(s) configuration.' Below this is a section titled 'SN' with a dropdown arrow. It contains two input fields: 'SN' with the value 'ZTEG00000ac0' and 'Register ID' with the value '1419'. At the bottom right of this section are 'Apply' and 'Cancel' buttons.

5. Verifying Successfulness of Connection

- LED indicators on the XGSPON 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.
- 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.
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.
10G LAN	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
	Off	No STB detected.

