Quick Installation Guide for XGSPON Optical Network Router

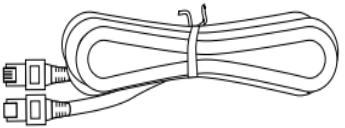
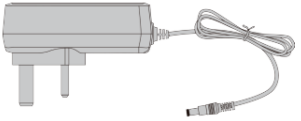
Technical Specifications

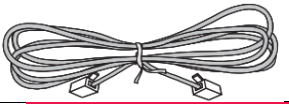
- Power supply: 12 V DC, 2 A
- Power adapter input: 100 - 240 V AC, 50 - 60 Hz
- System power supply: See the nameplate on the device
- Ambient temperature: 0ºC to +40ºC
- Ambient humidity: 5% - 95% RH (non-condensing)
- Weight: < 800 g
- System power consumption: ≤ 14.8 W

Product Overview

Product	Feature
XGSPON Optical Network Router (ONR)	■ 3 10/100/1000M auto negotiating Ethernet ports ■ 1 100M/1G/2.5G/5G/10G auto negotiating Ethernet port ■ 2 POTS ports

1. What's in the box?

Name	How it looks like
XGSPON ONR	
Cat6A cable	
Power Adapter	

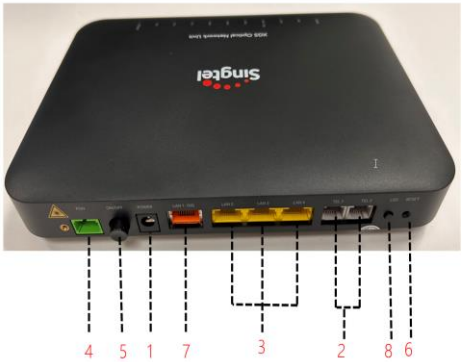
Phone cable	
Quick installation guide	

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 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



Port / Switch description:

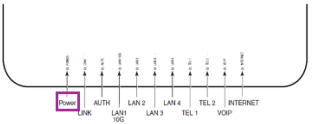
1. Power port
2. Two telephone ports
3. Three ethernet ports
4. Fiber port
5. Power switch
6. Reset button
7. 10G ethernet port
8. LED test button

Installation Guide:

• Powering up the ONR:

Step 1: Connect the power adapter to the ONR's Power port and your home electrical outlet. Power-on the ONR.

The Power indicator on the ONR should be green.



LED Indicator	Status	LED Description
Power	Green	Power on. The power LED first displays amber and then turns green. Power on (Power LED can be set green solid dim by LED indicator button when running properly)
	Green flashing	ONR is booting up
	Amber flashing	New firmware downloading
	Red Solid	Failed on startup (for example corrupt flash), or self test failed on startup, or self test failed during regular operation or when executed over OMCI
	Off	ONR is powered off

Installation Guide:
Powering up the ONR:

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In the event of "ONR start up failure", please try to power-off and power-on the ONR again.

If the issue still persists, please try to do a factory reset by pressing the "Reset" button and holding for more than 10 seconds. If the LED indicator turns off and on, your ONR has been successfully restored to factory default.

If this does not resolve the issue, please get a replacement ONR and send this ONR back to Nokia for analysis & repair.

Installation Guide:
Accessing the ONR:

Step 1: Connect the power adapter to the ONR's Power port and your home electrical outlet.
The Power indicator on the ONR should be green.

Step 2: Connect your PC to the ONR through the Ethernet port.

Step 3: Enter *http://192.168.1.254* in the address bar of your Internet Browser and press Enter.
In the web login window, enter username and password

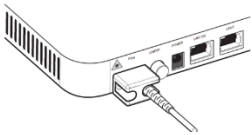
Normal user: admin
Password: As per label

Step 4: Click Login.

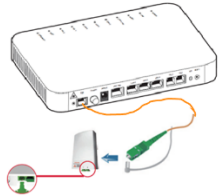
Installation Guide:
Connecting the fiber:

Step 1: Connect one end of the fiber patch cord to the fiber port on the back of the ONR, and secure the optical fiber by fitting it on the holders (SC/UPC).

Follow the arrows in the diagram for the positions of the holders.



Step 2: Connect the other end of the patch cord to the fiber termination point (FTP).



**** As the fiber optic cables are made of glass, please do not bend sharply and ensure the bending diameter is larger than 30mm.**

Installation Guide:
Connecting the fiber:

If the ONR has been provisioned on the OLT, once the fiber is connected and if the FTTH ID has been correctly configured, then the PON & AUTH LED should eventually be steady GREEN.

LED Indicator	Status	LED Description
PON	Green	ONR has ranged successfully
	Green flashing	ONR is ranging
	Off	No light source is detected
AUTH	Green	ONR is authorized / authenticated
	Green flashing	ONR is ranging or synchronizing
	Off	ONR is not authorized / authenticated

Installation Guide:
Connecting the fiber:

If the PON LED is OFF or keeps flashing, please check your fiber connection and FTTH ID configuration.

You can check the Rx optical signal by using an optical power meter or you can log in to the ONR and verify the optical Rx signal by navigating to Status → Optical Module Status.

LED Indicator	Status	LED Description
PON	Green	ONR has ranged successfully
	Green flashing	ONR is ranging
	Off	No light source is detected

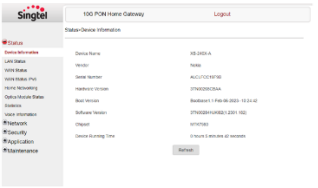
Installation Guide:
Connecting the fiber:

If the AUTH LED is OFF or keeps flashing, please recheck if the FTTH ID has been correctly configured.

Alternatively you can also cross-check with the backend provisioning team to see if the ONR has also been correctly configured on the OLT.

You can also navigate to Status → Device Information to verify if the ONR is on the correct software **3TN00284HJLI94**

LED Indicator	Status	LED Description
AUTH	Green	ONR is authorized / authenticated
	Green flashing	ONR is ranging or synchronizing
	Off	ONR is not authorized / authenticated

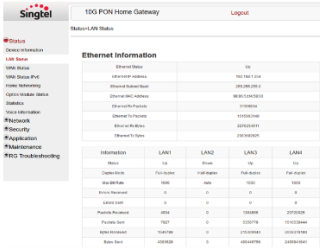


ONR Services Validation:

LAN Port Status:

If a device is connected but the LAN Port LED is OFF, please navigate to Status → LAN Status to check the port status.

You can also navigate to Status → Home Networking to verify the details of the connected devices.



LED Indicator	Status	LED Description
LAN Port 1 ~ 4	Green	Ethernet connected/powered device connected to LAN port
	Green flashing	Data activity present (traffic in either direction)
	Off	Power off or Ethernet not connected