

EchoLife Bridge GPON Terminal

Quick Start



Safety Precautions

To use the device properly and safely, read the safety precautions carefully before using the device and strictly observe these precautions when using the device.

- Do not look directly into the optical port without eye protection.
- Keep the device out of the reach of children as the components or accessories may be swallowed.
- Install the device in strict compliance with the requirements of the supplier. Reserve a space of at least 10 cm above and around the device for heat dissipation. During the installation, keep the device away from electric appliances that generate strong magnetic or electric fields, such as microwave ovens, refrigerators, and mobile phones.
- The power supply voltage of the device must meet the requirements on the input voltage of the device.
- If the power adapter is damaged and its internal circuit is exposed due to man-made factors, do not touch the exposed circuit, which may bring safety risks.
- Do not use any power adapters that are not in the standard configuration. Otherwise, the device may be abnormal or unsafe.
- Dry your hands before connecting or disconnecting cables. Stop the device and switch off the power before connecting or disconnecting cables.
- Do not place any object on the device, so that the device will not be damaged due to overheating or deformation.
- Prevent objects, such as metal, from entering the device through the heat dissipation hole.
- Switch off the power and disconnect all cables, including the power cable, optical fiber, and network cable, during periods of lightning activities. The socket-outlet shall be installed near the power adapter and shall be easily accessible. Before use the power adapter, please check no damage on the adapter.
- Do not lead the strength member of the optical fiber or other metal parts indoors. Do not install telephone lines, network cables, power adapters or power adapter cables outdoors. Adopting these measures will help prevent device damage and bodily injuries which are especially prone during thunderstorms.
- If an abnormality occurs, for example, liquid entering the device, smoke, unusual sound, and smell, stop the device immediately, switch off the power, disconnect all cables (such as the power cable, optical cable, and network cable) to the device, and contact the authorized service center.
- Do not disassemble the device without permission. In the case of a device fault, contact the authorized service center.
- Dispose of the packing materials, expired batteries, and old or abandoned devices in accordance to local laws and regulations (recycling them is strongly recommended).
- Do not change the structure, safety design, or performance design of the device without prior authorization.

Fireproof precautions:

- Keep the device away from large heat source equipment, bare flames, and high-power devices, such as electric heaters, candles, and blow drier, to eliminate safety risks.
- If there are aged cables or power socket facilities on the power supply line to or near the device, replace them in time to eliminate safety risks. The power supply voltage of the device must meet the input voltage requirement.



Caution

This document provides the ONT appearance and describes its interface, cable connection, and indicators. For details about the ONT, such as configurations and maintenance, see **Service Manual** in <http://support.huawei.com>.

Product Overview

Product	Function
HG8010 series	■ 1 Ethernet port
HG8110 series	■ 1 Ethernet port ■ 1 POTS port
HG8012 series	■ 1 Ethernet port ■ 1 CATV port
HG8120 series	■ 2 Ethernet port ■ 1 POTS port
HG8242 series	■ 4 Ethernet port ■ 2 POTS port ■ 1 CATV port
HG8040 series	■ 4 Ethernet port
HG8240 series	■ 4 Ethernet ports ■ 2 POTS ports



NOTE

If some device types are not in the preceding list, refer to <http://www.huawei.com>.

Technical Specifications

- 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% (non-condensing)

For other technical specifications, see the following table.

GPON Terminal	Weight (Including the Power Adapter)	Maximum System Power Consumption
HG8010 series	About 270 g	≤3.5 W
HG8110 series	About 300 g	≤5 W
HG8012 series	About 350 g	≤6 W
HG8120 series	About 350 g	≤5.5 W
HG8242 series	About 400 g	≤14 W
HG8040 series	About 400 g	≤6.5 W
HG8240 series	About 400 g	≤7.5 W

NOTE

If the appearance of the product in this document differs from the actual product, the actual product prevails.

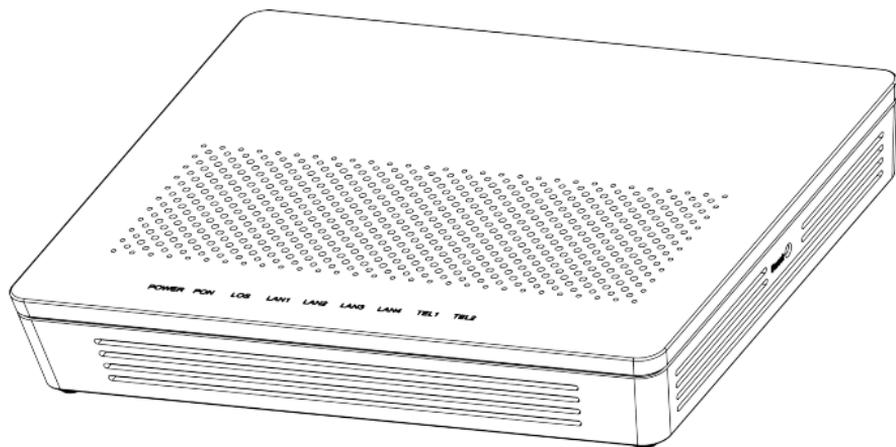


Caution

1. Do not install GPON terminals outdoors or on the outdoor cabinets.
2. GPON terminals can be mounted onto a wall or be placed on a workbench. Do not install GPON terminals in other modes, such as the ceiling.
3. The terminal cannot be connected to other devices such as GPON terminals, switch and router.

Mounting a GPON Terminal On The Desk

The schematic diagram for placing the device on a desk horizontally is as follows (The HG8240H is used as an example here.):

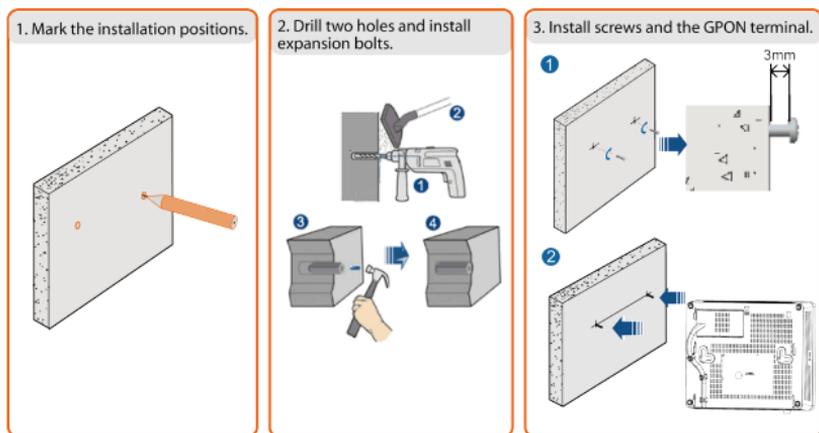


Mounting a GPON Terminal Onto The Wall

Step 1 Mark the positions of two holes used for mounting a GPON terminal, ensure that the two holes have the same spacing as the two mounting holes.

Step 2 Select a proper drill according to the outer diameter of the screws. Use a hammer drill to drill the marked positions on the wall. Then clean the wall and install two expansion bolts.

Step 3 Use a screwdriver to fasten the screws into the expansion bolts, leaving the heads of the screws 3 mm over the wall. Then install the GPON terminal to the screws.

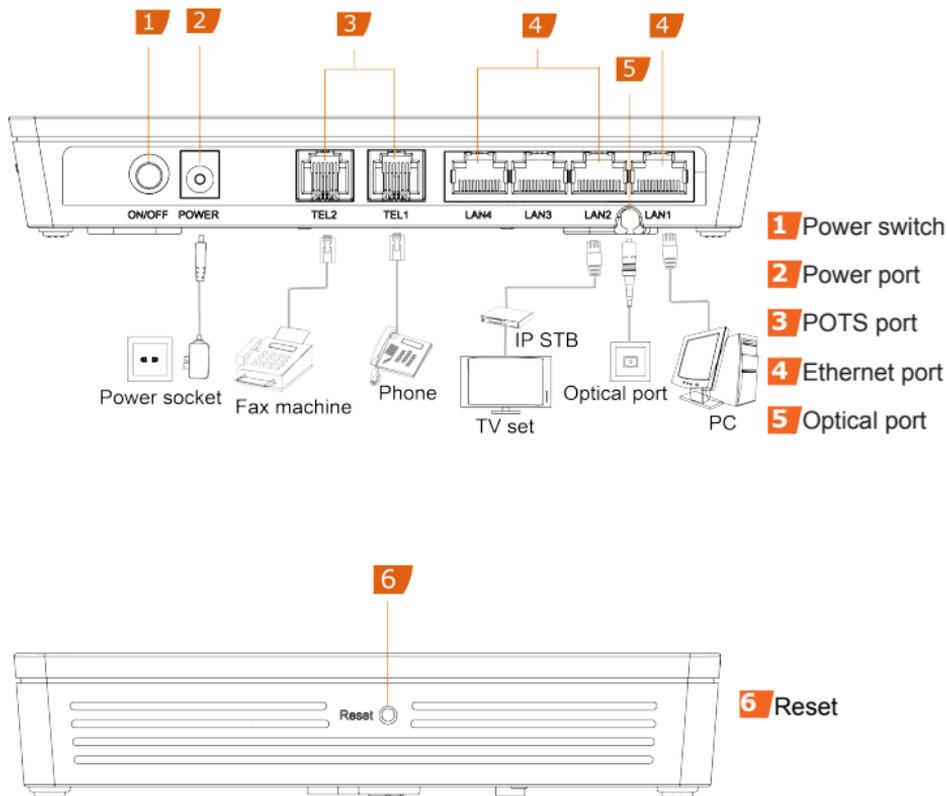


NOTE

This terminal is mainly placed horizontally on a desk. When it is mounted onto a wall, the silkscreen of its indicator is reversed. If you have a special requirement on the silkscreen, purchase another terminal.

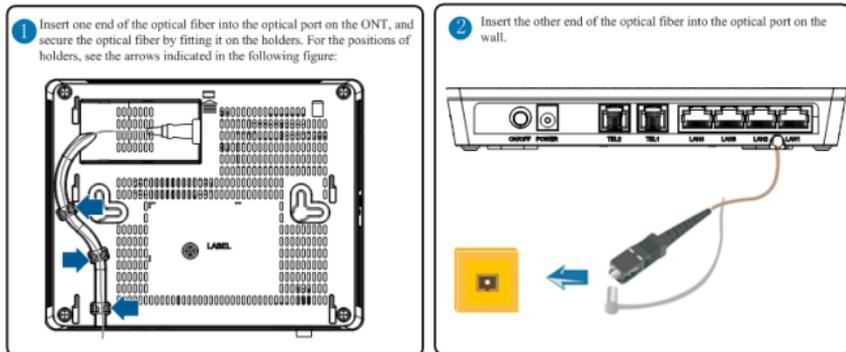
Connecting Cables

This document uses the HG8240H as an example to describe the connections. Ports on GPON terminals of other types may be different. Therefore, connect cables based on the ports that are actually supported by the device. If the external device is different from the device in the figure, refer to the description for connections of the external device.

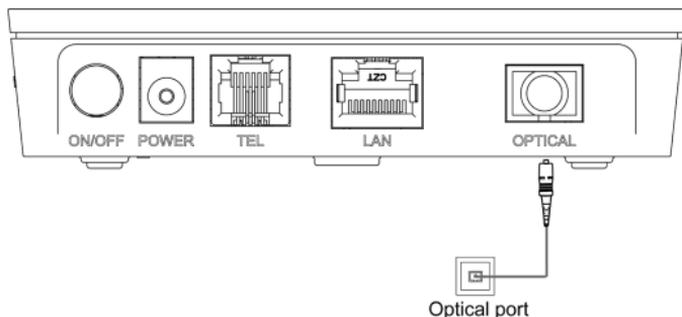


Step 1 Use an optical fiber to connect the optical port on the ONT and the optical port on the wall.

- The optical port of the HG8242 series, HG8240 series and HG8040 series are at the back of the device. For how to connect the optical port, see the following figure (The HG8240H is used as an example here.):



- For how to connect the optical ports of other ONTs, see the following figure:(Use an optical fiber to directly connect the OPTICAL port on the ONT to the optical port on the wall.) The HG8110F is used as an example here.



 **NOTE**

1. The optical connector connected to the **OPTICAL** port is an SC/APC connector, and the type of the optical connector connected to the optical port in the wall is determined by practical conditions.
2. To ensure normal use of fibers, make sure that the fiber bend radius is larger than 30 mm.

Step 2 Use a network cable to connect the **LAN** port to a PC or the Ethernet port on the IP STB.

Step 3 Use a phone line to connect the **TEL** port to a phone or fax machine.

Step 4 Use a power adapter to connect the **POWER** port to the power socket.

 **NOTE**

The preceding figure connects the power adapter as an example. For details about how to use the backup battery unit, see the usage guide to the backup battery.

Step 5 Press the **ON/OFF** power switch.

Logging in to the Web Configuration Window

Step 1 Set the IP address of the PC in the same subnet as the management IP address of the GPON terminal.

 **NOTE**

You can find the default management IP address on the nameplate of the device.

Step 2 Enter the management IP address of the GPON terminal in the address bar of Internet Explorer and press **Enter**.

The login window is displayed.

Step 3 In the login window, select your preferred language, enter the user name and password (printed on the nameplate of the device.), and click **Login**. After the password is authenticated, the Web configuration window is displayed.

 **NOTE**

- Shipped from different manufacture batches, the nameplates of some devices do not have the IP address, user name, and password printed. In such a case, log in to the device using 192.168.100.1 (or 192.168.1.1), root (user name), and admin (password).

- If you do not perform any operations after logging in to the system for five minutes, you will exit the system and the system automatically returns to the login interface.
- The system will be locked if you input incorrect user name and password three consecutive times. One minute later, it will be unlocked.
- Change the initial password after logging in to the web page.

Indicator Description

Table 1 Indicator status description 1

Indicator	Status	Description
CATV	Steady on	The CATV function is enabled and CATV signals are received.
	Off	The CATV function is disabled or CATV signals are not received.
TEL1–TEL2	Steady on	The ONT is registered with the softswitch but no service flows are transmitted.
	Blinking	Service flows are transmitted.
	Off	The ONT is not powered on or fails to be registered to the softswitch.
LAN1–LAN4	Steady on	The Ethernet connection is in the normal state.
	Blinking	Data is being transmitted on the Ethernet port.
	Off	The Ethernet connection is not set up.
LOS/PON	See Table 2.	
POWER	Steady green	The terminal is powered on.
	Off	The power supply is cut off.

Table 2 Indicator status description 2

Status No.	Status		Description
	PON	LOS	
1	Off	Off	The GPON terminal is prohibited by the upper-layer device, contact the service provider for help.
2	Blinks twice a second	Off	The GPON terminal attempts to set up a connection with its upper-layer device.
3	Steady on	Off	A connection is set up between the GPON terminal and its upper-layer device.
4	Off	Blinks once two seconds	The GPON terminal is not connected to optical fibers or does not receive optical signals.
5	Blinks twice a second	Blinks twice a second	The GPON terminal is a rogue terminal, contact the service provider for help.
6	Blinks once two seconds	Blinks once two seconds	The hardware is faulty.

Hereby, Huawei Technologies Co.,Ltd. declares that the product meets the directive 2009/125/EC and its implementation regulation (EC) NO 1275/2008 amended by (EC) 278/2009,(EC) 642/2009,(EU) 617/2013,(EU) 801/2013,and its implementation regulation (EC) NO 278/2009.

The power consumption of product in networked standby if all wired network ports are connected and all wireless network ports are activated is less than 12 W.

For the product information displayed on the manufacturers' freely accessible websites required by (EU) No 801/2013 , please visit <http://support.huawei.com>.

The **LOS** indicator blinks.

- If the LOS indicator blinks once two seconds, check whether the pigtail fiber is properly connected and the connector is clean.
- If the GPON terminal blinks twice a second, contact the service provider for help.

The **PON** indicator is off.

- Check whether the **OPTICAL** port and optical fiber is properly connected.
- The GPON terminal fails to register with the upper-layer device. Contact the service provider for help.

The phone does not ring upon an incoming call but communication is in normal state when the phone is in off-hook state.

- The GPON terminal provides a maximum of 60 V AC ringing current voltage. Check whether the ringing current voltage of the phone is higher than 60 V AC. If it is higher than 60 V AC, replace it with another phone.

How to reset the GPON terminal?

- Press **Reset** by using a needle-type object.

How can I restore factory defaults?

- Press **Reset** by using a needle-type object for longer than 10s to restore factory defaults and reset the GPON terminal. If the indicator is off and then is lit, the system restarts successfully.



Warranty Card

Thank you for choosing Huawei Technologies Co., Ltd. To get better services, please read this warranty card carefully, fill in the required information, and preserve this card in good condition.

User Information

Personal or
company's full name: _____

Address/Postal Code: _____

Telephone: _____

Email: _____

Product Type: _____

Product Serial Number: _____

Purchase Date: _____

Invoice Number: _____

Dealer's Name: _____

Dealer's Address: _____

Dealer's Telephone: _____

Preserve well. No reissue.

Dealer's Seal



Limited Warranty

Subject to the exclusions contained below, Huawei Technologies Co., Ltd. (Huawei for short) warrants its access terminals ("Products") to be free from defects in materials and workmanship under normal consumer usage for one year from the date of purchase of the product ("Warranty period"). During the warranty period, a Huawei authorized service partner shall remedy defects in materials and workmanship free of charge.

Special Notice:

1. The warranty card shall be applicable only after being stamped by the dealer.
2. The warranty card must be preserved in good condition and free of any scratch or alteration.
3. To claim such service for defects that are not included in the following exclusion terms, the warranty card and the invoice that records that product serial number shall be presented to a Huawei authorized service partner.

Exclusions:

In any of the following cases, the warranty card becomes unenforceable or inapplicable without prior notice:

1. The defects are caused by improper handling in transportation and assembly.
2. The defects are caused by the fact that the product is dismantled or altered by anyone that is not from a Huawei authorized service partner.
3. The defects are caused by the fact that the product is used in a harsh environment that is not suitable for the operation of the product.
4. The defects are caused by any force majeure including but not limited to fire, earthquake, lightning, and tsunami.
5. The defects are caused by the fact that the product is used or handled incorrectly, roughly or not as instructed in the applicable User Guide.
6. The normal wear and tear, including but not limited to the normal wear and tear of the shell and the power module, shall not be covered by the limited warranty.
7. The warranty card is altered or illegible, or the product serial number recorded on the warranty card is inconsistent with the actual one imprinted or labeled on the product.

In any case that is not covered by this limited warranty or should the warranty expire, Huawei shall charge for the service(s) claimed for the products if the product is still remediable. Huawei reserves all rights to interpret this limited warranty.



HUAWEI Huawei Technologies Co., Ltd.

Address: Huawei Industrial Base
Bantian, Longgang
Shenzhen 518129
People's Republic of China
Website: <http://www.huawei.com>





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