EchoLife HG8247H 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.
- 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.

Product Overview

Product	Function	
HG8247H	4 Ethernet ports	
	2 POTS ports	
	1 USB port	
	1 CATV port	
	Wi-Fi access	

Technical Specifications

Item	Specifications
Dimensions (L x W x H)	220 mm x 160 mm x 32 mm (without an external antenna)
Weight (including the power adapter)	About 800 g
System power supply	See the nameplate on the device.
Power adapter input	100-240 V AC, 50-60 Hz
Maximum power consumption	≤18 W
Ambient temperature	0°C- +40°C
Ambient humidity	5% RH - 95% RH (non-condensing)

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The appearance shown in this document may be different from the actual appearance of the product. The actual product provided by the carrier prevails.

Installing the GPON Terminal

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.

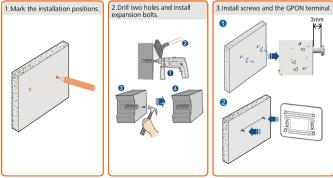
Mounting a GPON terminal on the desk

The figure below shows an HG8247H that is horizontally placed on a desk.

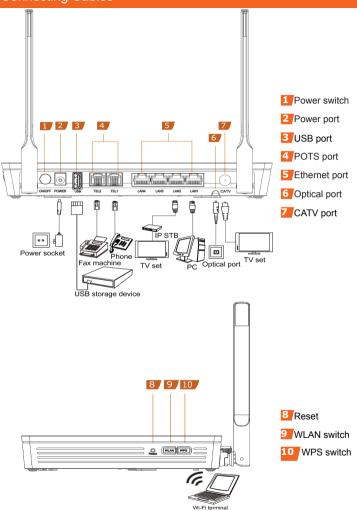


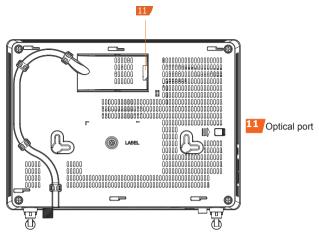
Mounting a GPON terminal onto the wall

- <u>Step 1</u> 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.
- <u>Step 2</u> 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.
- <u>Step 3</u> 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.



Connecting Cables





<u>Step 1</u> Use an optical fiber to connect the optical port on the ONT and the optical port on the wall. The optical port of the HG8247H is at the back of the device.

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 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.
- <u>Step 3</u> 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.

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The preceding figure connects the power adapter as an example. When connecting the backup battery unit , please see the usage guide to the backup battery for details .

- Step 5 Use a USB data cable to connect the USB port to the USB storage device.
- Step 6 Press the **ON/OFF** power switch.
- <u>Step 7</u> Press the **WLAN** switch to enable the Wi-Fi access function. By default, this function is enabled.
- Step 8 Press the **WPS** switch to enable the WPS encryption function.

🛄 NOTE

Before enabling the WPS encryption function of a GPON terminal, ensure that the function is set in the system software in advance. After successful setting, press the **WPS** switch for the settings to take effect.

Logging in to the Web Configuration Window

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

D NOTE

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

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

The login window is displayed.

<u>Step 3</u> In the login window, select your preferred language, enter the user name and password (see the device nameplate for the default user name and password), and click **Login**. After the password is authenticated, the Web configuration window is displayed.

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-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.

Configuring Wi-Fi Parameters

Step 1 Choose the WLAN tab and choose WLAN Basic Configuration.

<u>Step 2</u> In the pane, select the **Enable WLAN** option box. In the dialog box that is displayed, set the basic Wi-Fi parameters, including the SSID, authentication mode, and encryption mode.

-SSID: See the nameplate on the device

-WPA PreSharedKey: See the nameplate on the device

SSID indicates the name of a wireless network searched by the Wi-Fi terminal; WPA PreSharedKey indicates the authentication password for the Wi-Fi terminal to access a wireless network.

Step 3 Click Apply.

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HG8247H supporting Wi-Fi, a wireless network coverage is subject to the number, thickness, and positions of walls, materials, ceilings, or other objects that radio signals traverse. Besides, metarial type and background radio frenquency (RF) noise also affect the coverage of a wireless network. You can maximize the coverage of a wireless network using the following methods:

1. Decrease the number of walls and ceilings between HG8247H and other network devices.

Each wall or ceiling reduces the coverage of a wireless network by one to 30 meters. Install HG8247H at a proper place to avoid walls or ceilings whenever possible.

2. Observe the straight line rule when installing network devices.

The distance for which signals have to traverse at a 45° corner of two 0.5 meter-thick walls reaches approximately one meter. To better receive signals, devices should be installed at places where signals can directly traverse walls or ceilings.

3. Note the impact of building materials on the wireless network coverage. A metal door or aluminum wall may limit the coverage of a wireless network. Install access points, wireless routers, and computers, so signals can traverse walls or open passageways. Materials and objects such as FRP products, metal products, insulative walls, filing cabinets, bricks, and concrete weaken radio signals.

4. When connecting HG8247H to a wireless network, keep it far from the following devices:

- Electronic devices or components that produce RF noises (keep a distance of more than 2 meters between such a device and HG8247H.)

- 2.4 GHz wireless mobile phones or X-10 devices (such as microwave ovens, home security systems, blue-tooth devices, and refrigerators) that greatly weaken or even eliminate radio signals. Even if a 2.4 GHz wireless mobile phone is not connected to a wireless network, the phone base still sends signals that interfere the wireless network.

Indicator Description

Table 1	Indicator	status	description	1
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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.	
	Steady on	The WPS function is enabled.	
WPS	Blinking	A Wi-Fi terminal is accessing the system.	
	Off	The WPS function is disabled.	
	Steady on	The WLAN function is enabled.	
WLAN	Blinking	Data is being transmitted on the WLAN port.	
	Off	The WLAN function is disabled.	
USB	Steady on	The USB port is connected and is working in the host mode, but no data is transmitted.	
	Blinks twice a second	Data is being transmitted on the USB port.	
	Off	The system is not powered on or the USB port is not connected.	
	Steady on	The terminal is registered with the softswitch but no service flows are transmitted.	
TEL1– TEL2	Blinking	Service flows are transmitted.	
	Off	The terminal is not powered on or fails to be registered to the softswitch.	
	Steady on	The Ethernet connection is in the normal state.	
LAN1– LAN4	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.	
FOWER	Off	The power supply is cut off.	

Indicator Description

Table 2 Indicator status description 2

Status	Status		Description	
No.	PON	LOS	Description	
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.	

ErP Product Information

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 7.8 W.

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

To turn on or off the wireless network function, press the WLAN button on the side panel of the HG8247H.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and consider removing the no-collocation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

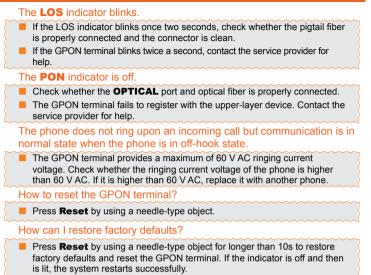
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Contents marked with * are applicable to America.

RF Exposure

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated withminimum distance 20cm between the radiator & your body.

FAQs





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.
- The warranty card must be preserved in good condition and free of any scratch or alteration.
- 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.
- 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.
- 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.
- The defects are caused by any force majeure including but not limited to fire, earthquake, lightning, and tsunami.
- 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.
- 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.

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