

Huawei OptiXstar HG8010N-10

Quick Start

Issue 01

Date 2025-10-23



HUAWEI TECHNOLOGIES CO., LTD.



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Security Declaration

Vulnerability

Huawei's regulations on product vulnerability management are subject to the *Vul. Response Process*. For details about this process, visit the following web page:

<https://www.huawei.com/en/psirt/vul-response-process>

For vulnerability information, enterprise customers can visit the following web page:

<https://securitybulletin.huawei.com/enterprise/en/security-advisory>

Contents

1 Placing the Device.....	1
1.1 Installing an ONT on the desk.....	1
1.2 Mounting an ONT onto the wall.....	2
2 Connecting Cables.....	4
3 Indicator Description.....	6
4 Technical Specifications.....	8
5 FAQs.....	9
5.1 How do I log in to the Huawei ONT web page?.....	9
5.2 How do I restore the Huawei ONT to factory setting?.....	10
5.3 What can I do if the network speed is slow?.....	10
5.4 How can I download Huawei ONT firmware or ONT software?.....	10
6 Accessibility Statement.....	11

1

Placing the Device

WARNING

1. Install devices only by professional personnel. Do not install devices without permission.

During device installation, the installation professional personnel needs to inform the user of how to log in to the web configuration page and scan the QR code to view the Quick Start documentation. The IP address, login user name, and password of the web configuration page need to be provided to the user.

2. Do not use detergents, gasoline, ammonia water, or corrosive chemical reagents to clean the device.
3. The tools and auxiliary materials that are not delivered with the equipment must be prepared by professional personnel.
4. Before using the device, read **Safety Information** carefully. Follow these precautions and instructions to ensure optimal product performance and to avoid danger and legal or regulatory violations.

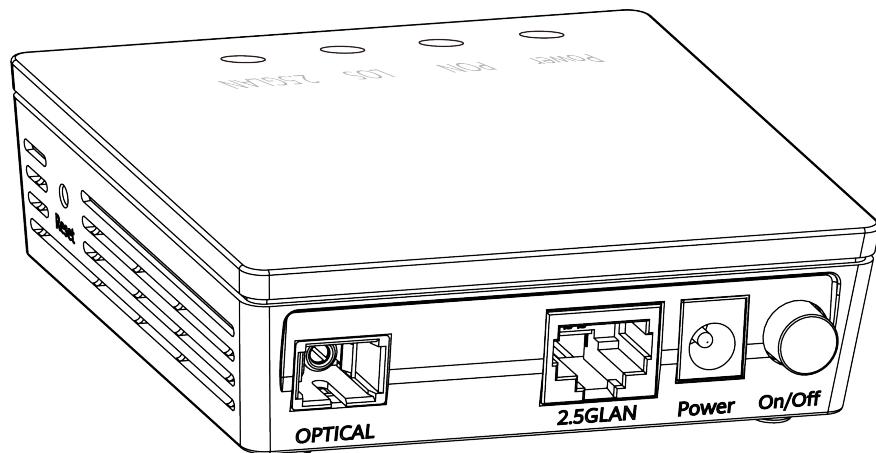
NOTE

- Do not install the ONT and user cables outdoors or in an outdoor cabinet.
- The ONT can be mounted onto a wall or placed on a desk. Do not install the ONT in other modes, such as ceiling.
- Keep 10 cm clearance on all sides to ensure adequate ventilation.
- It is recommended that the computer and ONT be put far away from electric appliances that generate strong magnetic or electric fields, such as microwave ovens.

1.1 Installing an ONT on the desk

The figure below shows an ONT that is installed on a desk.

Figure 1-1 Installing on the desk diagram



 **NOTE**

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

1.2 Mounting an ONT onto the wall

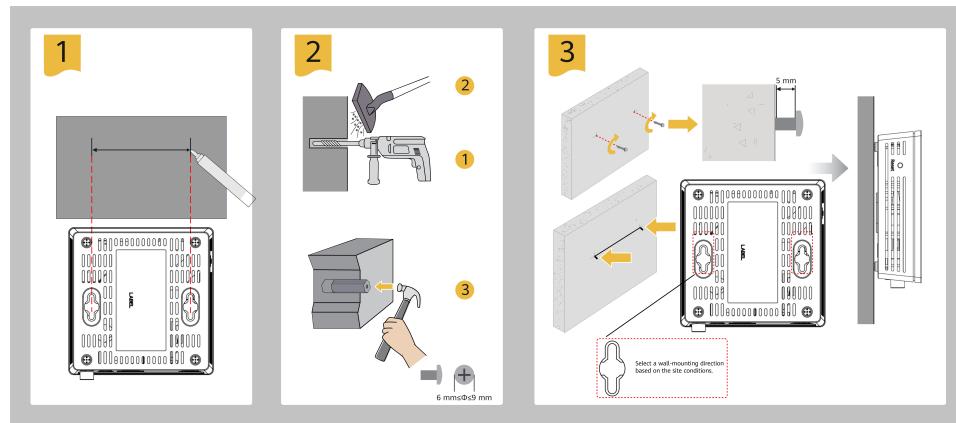
 **NOTE**

For users with limited mobility, the installation distance must be considered.

The installation height must be greater than 800 mm and less than 1100 mm. The minimum horizontal distance is 450 mm.

1. Mark two positions with the same spacing as that between the two mounting holes of the ONT using a marker on a wall.
2. Select a proper drill bit according to the outer diameter of the screws. Use a hammer drill to drill the marked positions on the wall. Then clean the holes and install two expansion bolts.
3. Use a screwdriver to fasten the screws into the expansion bolts, reserving 5 mm ends out of the wall, and mount the ONT onto the screws.

Figure 1-2 Mounting onto the wall diagram

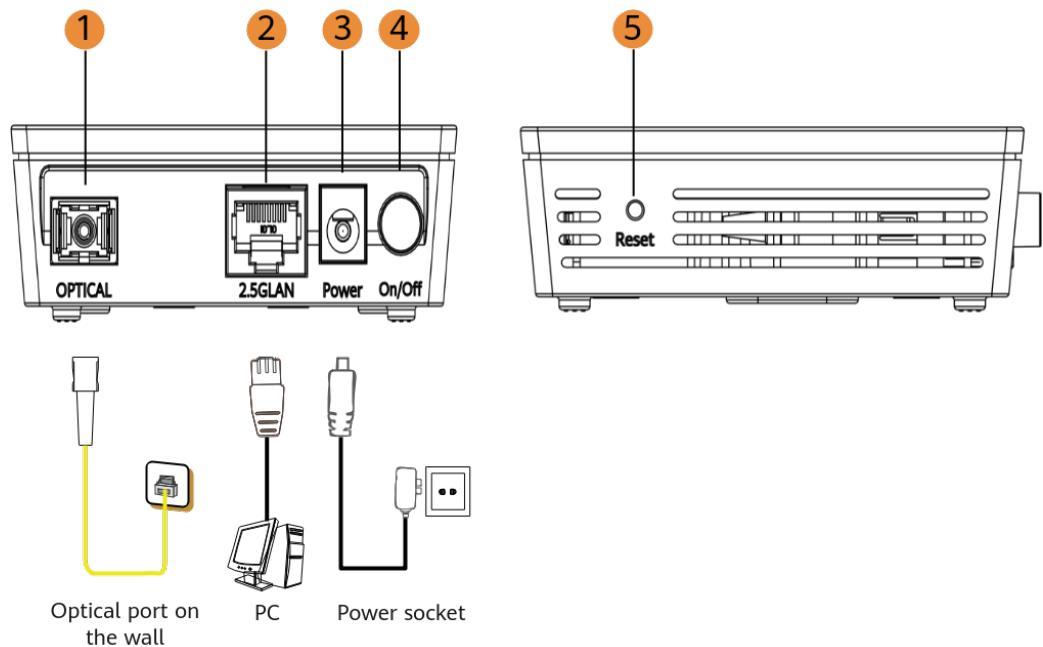


 **NOTE**

It is recommended that the screw be about 4 mm in diameter and longer than 20 mm.

2 Connecting Cables

Figure 2-1 Cable connection diagram



NOTE

- The fiber connector connected to the optical port on the wall varies depending on actual conditions.
- To ensure normal use of fibers, make sure that the fiber bending radius is larger than 30 mm.
- There is a row of ports/button at the rear of the device. The ports/button are displayed from left to right: **OPTICAL**, **2.5GLAN**, **Power**, **On/Off** (Corresponds to No. 1 to No. 4 in the following table).
- There is one button on one side of the device. The button is displayed: **Reset** (Corresponds to No. 5 in the following table).

Table 2-1 Ports and Buttons Description

No.	Item	Description
1	OPTICAL	The optical port is equipped with a rubber plug and connected to a fiber for upstream transmission. The type of the optical connector connected to the optical port can be SC/APC.
2	2.5GLAN	Connects to PC or IP set-top box (STB).
3	Power	Connects to a power adapter.
4	On/Off	Powers the ONT on or off.
5	Reset	Press the button for a short time to reset the device, or press the button for a long time (longer than 10s) to restore the device to the default settings and reset the device. NOTE Reset Huawei ONTs with caution. Otherwise, the ONTs may fail to access the Internet. If an ONT cannot access the Internet after a reset, contact your Internet service provider.

3 Indicator Description

Indicators from left to right are as follows: **Power, PON, LOS, 2.5GLAN**.

Figure 3-1 Indicator diagram



Table 3-1 Indicator Description

Indicator	Status	Description
Power	Steady green	The ONT is powered on.
	Off	The power supply is cut off.
PON/LOS	See the following table.	
2.5GLAN	Steady green	The Ethernet connection is in the normal state.
	Blinking green	Data is being transmitted over the Ethernet port.
	Off	The Ethernet connection is not set up.

Table 3-2 PON/LOS Indicator Description

Status No.	PON Status	LOS Status	Description
1	Off	Off	The ONT is prohibited by the upper-layer device or blinks abnormally. Contact the service provider for help.

Status No.	PON Status	LOS Status	Description
2	Blinking green quickly (twice a second)	Blinking red quickly (twice a second)	
3	Blinking green quickly (twice a second)	Off	The ONT attempts to set up a connection with its upper-layer device.
4	Steady green	Off	A connection is set up between the ONT and its upper-layer device.
5	Off	Blinking red slowly (once every two seconds)	The ONT is not connected to fibers or does not receive optical signals.
6	Blinking green slowly (once every two seconds)	Blinking red slowly (once every two seconds)	The hardware is faulty.

 **NOTE**

If the ONT is not powered on or the power switch is turned off, all indicators are off.

4 Technical Specifications

Table 4-1 Technical Specifications

Product	Function
Huawei OptiXstar HG8010N-10	1 Ethernet port

- Power adapter input: See the nameplate on the adapter.
- System power supply: See the nameplate on the device.
- Operating temperature: 0°C to +40°C
- Operating humidity: 5%–95% (non-condensing)
- Storage temperature and humidity: Compliant with ETSI EN 300 019-1-1 Class 1.2
- Dimensions (H x W x D): 26 mm x 88 mm x 88 mm (Without pads)
- Weight: About 90 g
- Maximum system power consumption: 5 W

NOTICE

The valid storage period of the product is nine months. The valid storage period refers to the period during which the product can be stored in a storage environment that meets the ETSI EN 300 019-1-1 Class 1.2 standard without performance degradation.

5 FAQs

NOTE

- The following web page is only for reference. The actual web page of the product prevails.
- You can query the running status of each service unit on the web page of the device.
- If an exception occurs during using the device and the fault persists by referring to the following FAQs, contact the professional service personnel of the carrier.

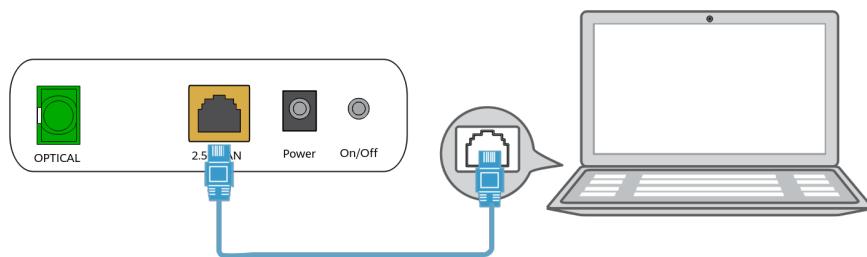
5.1 How do I log in to the Huawei ONT web page?

NOTE

You are advised to use the latest browser to log in to the web configuration page. Chrome 58/Edge 14/Firefox 54/Safari 10/Opera 55 or later is recommended. If the browser of an earlier version is used, compatibility issues may occur.

1. Use a network cable to connect a PC to the Huawei ONT.

Figure 5-1 Diagram for connectting a PC to the Huawei ONT



2. Set the IP address of the PC in the same subnet as the web address of the Huawei ONT. *For example, if the web address of the Huawei ONT is 192.168.a.b (for the web address of the Huawei ONT, see the product nameplate), set the IP address of the PC to 192.168.a.c.*

NOTE

The preceding cable connection diagram and login pages are only for reference, and those of the actual product prevail.

3. Log in to the web configuration page.

- a. Open a browser. In the address box, enter the web address (printed on the nameplate of the Huawei ONT). Press **Enter**.
- b. Enter the login user name and password (printed on the nameplate of the Huawei ONT). Click **Log In**.

 **NOTE**

- If you do not perform any operations after logging in to the system within five minutes, you will be logged out, and the system automatically returns to the login interface.
- The system will be locked for one minute if you input incorrect user name and password for three consecutive times.
- Change the initial password after logging in to the web page for the first time.

5.2 How do I restore the Huawei ONT to factory setting?

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

 **NOTE**

Exercise caution when restoring factory settings. This function may cause the loss of ONT configuration information and further cause an Internet access failure. If this problem occurs, contact your service provider for help.

5.3 What can I do if the network speed is slow?

1. Check whether network cables are properly connected. Remove and then insert the network cables. Then, check whether the network speed is normal.
2. Check whether downloading, network video watching, or other operations occupy a large amount of bandwidth. Due to bandwidth restrictions, if some network applications occupy a large amount of network bandwidth, the network speed is slow.
3. Use another PC to check whether the network speed is normal.

5.4 How can I download Huawei ONT firmware or ONT software?

- Huawei ONT is used with an OLT and NMS of a required version. If the versions are not the required ones, the ONT may not work.
- If required, contact your internet service provider to obtain the correct ONT firmware or software.

6 Accessibility Statement

For visually impaired users, you can obtain the product documentation in electronic format and read it online.

The product documentation describes the meanings of indicator colors and blinking status, and the relative positions and functions of each port and button, so that people with visual impairment can use the product properly.

We will continue to improve our products to adapt to the latest technologies and changes in user requirements, and provide users with accessibility functions and services.