F1002-AC-H1

Quick Start

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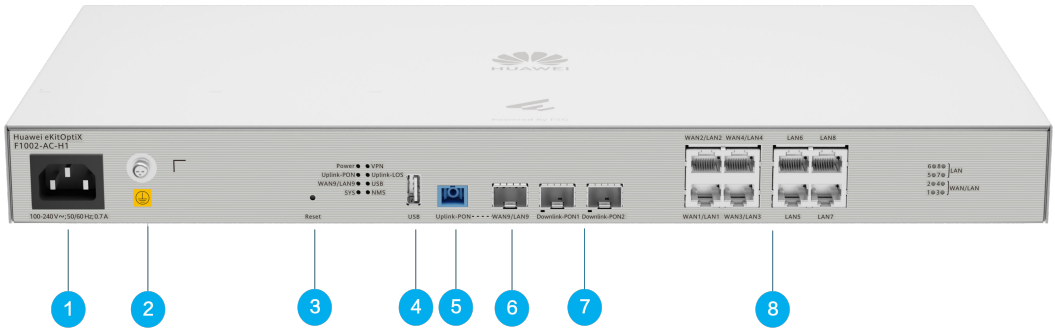
Security Declaration

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 Appearance and Ports

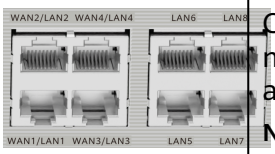


NOTE

- The appearances shown in this document may differ from the actual appearances of the products. The actual products prevail.
- If a non-XGS-PON/GPON combo optical module is inserted or replaced after the device is started for the first time, the device must be restarted for the configuration to take effect.
- After the device starts up normally, if the optical module type of any downstream PON port is changed, the new optical module type takes effect only after the device is restarted.

1	Power port	2	Grounding port
3	Reset button	4	USB port
5	Uplink-PON port	6	WAN9/LAN9 port
7	Downlink-PON1/ Downlink-PON2 port	8	WAN1/LAN1 to WAN4/LAN4 port LAN5 to LAN8 port

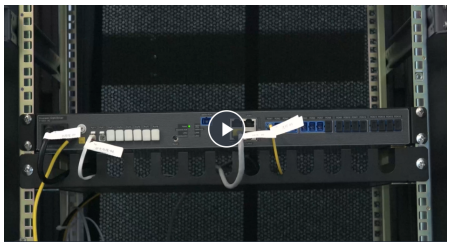
No.	Silkscreen	Description
1		AC power port, used to connect to the power supply. AC: 100 – 240V AC, 50/60 Hz, 0.7 A
2		Connects the PGND cable. **WARNING** The PGND cable must be properly connected to protect the device against lightning strikes and interference. If the PGND cable is not properly connected, the device may be damaged by lightning strikes, services may become abnormal, and personal injury may occur.
3		Press and hold the button for 10 seconds or longer to restore the device to its factory settings. **NOTE** • Restoring factory settings will clear user configuration data. Exercise caution when performing this operation. • The button duration varies depending on the device configuration.
4		Connects the USB device*. **NOTE** *: A plug-and-play USB port reserved for users.
5		Connects to upstream optical fiber. Provides upstream XGS-PON/XG-PON optical access. **NOTE** Only one port can be used together with the ***WAN9/LAN9 port***.
6		Inserts 10GE optical module and connects to upstream cable. Provides upstream GE/10GE access. **NOTE** Only one port can be used together with the ***Uplink-PON port***.
7		Inserts optical module and connects to downstream optical fiber. Provides downstream XGS-PON/GPON optical access.

No.	Silkscreen	Description
8		Connects to a PC, an IP STB, or a router through a network cable and provides 10 Mbit/s, 100 Mbit/s, and 1000 Mbit/s adaptive Ethernet access rates. **NOTE** To access the external network, insert the network cable to ***WAN1/LAN1 to WAN4/LAN4 ports***.

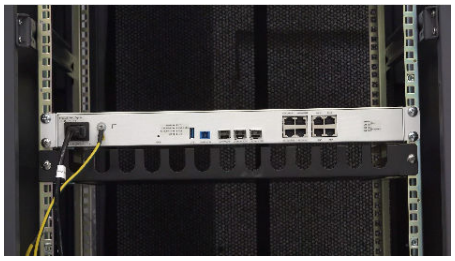
2 Device Installation Videos

2.1 Optical Gateway Installation Guide

This section describes how to install the optical gateway.

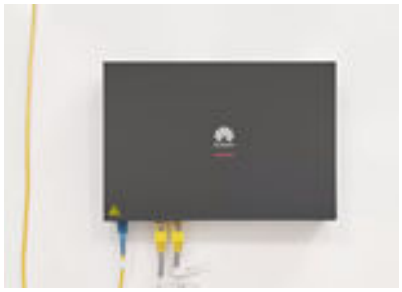
Product	Installation Guide
F1001-AC	 Scan the QR code to watch the video: F1001-AC 19-Inch Cabinet Scenario Click to watch the video: **(Video) F1001-AC Installation Guide** Installation Guide: **F1001-AC Quick Start**

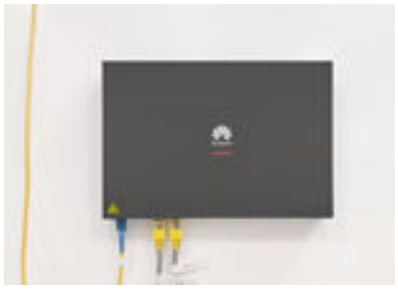
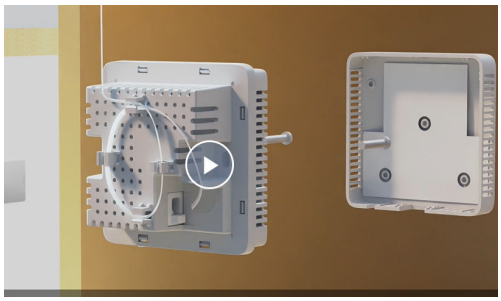
Product	Installation Guide
F1001-DC-H1	 Scan the QR code to watch the video: F1001-DC-H1 Wall-mounting Holes Scenario F1001-DC-H1 Mounting Ear Scenario Click to watch the video: **(Video) F1001-DC-H1 Installation Guide (Wall-mounted holes Scenario)** **(Video) F1001-DC-H1 Installation Guide (Mounting Ear Scenario)** Installation Guide: **F1001-DC-H1 Quick Start**

Product	Installation Guide
F1002-AC-H1	 Scan the QR code to watch the video: F1002-AC-H1 19-Inch Cabinet Scenario Click to watch the video: **(Video) F1002-AC-H1 Installation Guide (19-Inch Cabinet Scenario)**

2.2 Optical AP/ONU Installation Guide

This section describes how to install the optical AP and ONU.

Product	Installation Guide
F200D-8G	 Scan the QR code to watch the video: Box-shaped ONU Wall-mounted Scenario Click to watch the video: **(Video) Box-Shaped ONU Installation Guide** Installation Guide: **F200D-8G Quick Start**

Product	Installation Guide
F200D-8P	 Scan the QR code to watch the video: Box-shaped ONU Wall-mounted Scenario Click to watch the video: **(Video) Box-Shaped ONU Installation Guide** Installation Guide: **F200D-8P Quick Start**
F100P-2G	 Installation Guide: **F100P-2G Quick Start**

Product	Installation Guide
F600C-30-1GH	 Scan the QR code to watch the video: F600C-30-1GH Ceiling-mounted Scenario Click to watch the video: **(Video) F600C-30-1GH Installation Guide** Installation Guide: **F600C-30-1GH Quick Start**
F600D-30-4G1V	 Installation Guide: **F600D-30-4G1V Quick Start**

Product	Installation Guide
F500D-12-4G1V	 Scan the QR code to watch the video: F500D-12-4G1V Wall-mounted Scenario Click to watch the video: **(Video) F500D-12-4G1V Installation Guide (Wall-mounted Scenario)** Installation Guide: **F500D-12-4G1V Quick Start**

3 Device Installation Guide

Device Installation

The F1002-AC-H1 can be placed horizontally on a desk, installed in a 19-inch cabinet, or installed in an indoor network box.

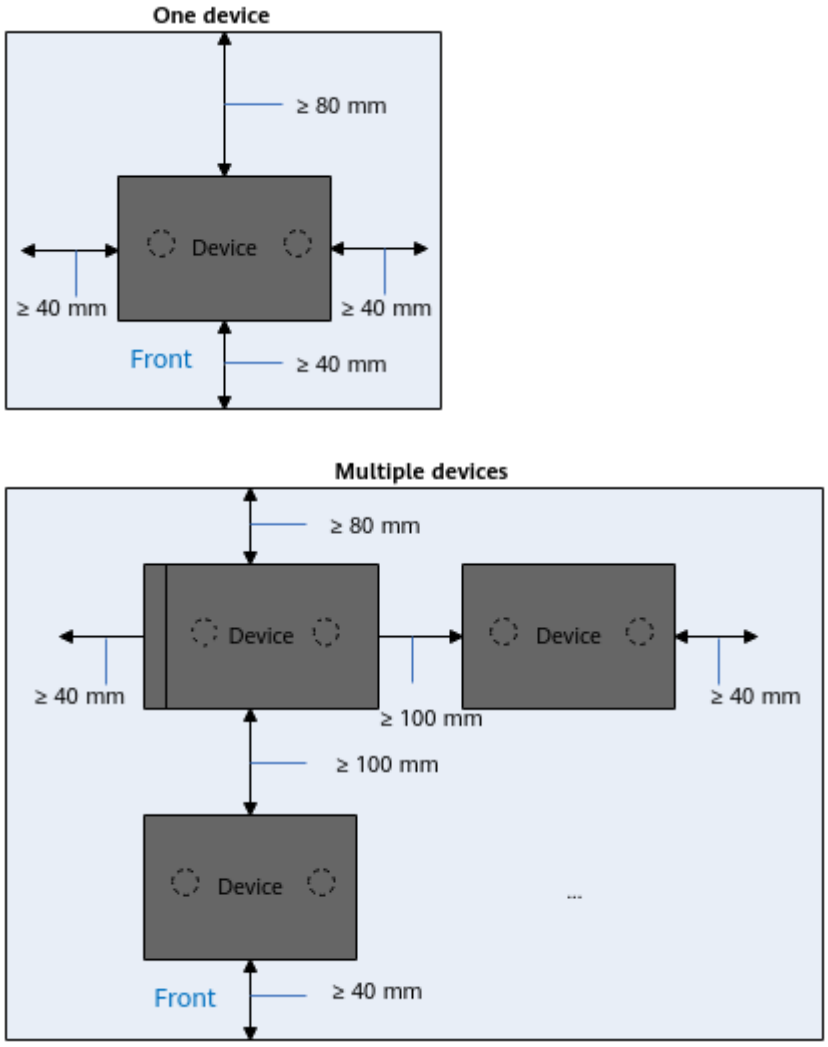
NOTICE

- The figures shown in this document may differ from the actual products, but the differences do not affect the functions of the products.
- This product is a class A product. In a living environment, this product may cause radio interference, in which case users may be required to take adequate measures.
- Do not stack the devices horizontally.
- To ensure proper grounding, it is recommended that the ground cables be connected by professionals.
- To avoid EMC risks, it is recommended that this product be used with shielded network cables.
- It is recommended that adapters and optical fibers not be vertically installed above devices.
- Do not route Ethernet cables or adapter cables outside a network box.
- Install the device in a confined area, such as a network box. Only professional personnel are allowed to operate and maintain the device.

Space for Heat Dissipation

NOTE

- The space requirements for heat dissipation indicated in the following figures are applicable to the horizontal installation on a desk or installation in a network box.
- Ensure that the heat dissipation sides do not contact with a wall or desktop.



Placed Horizontally on a Desk

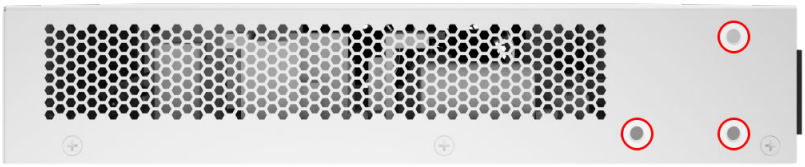
NOTICE

Do not stack devices when they are placed horizontally on a desk. Ensure that the devices are properly grounded before power-on.

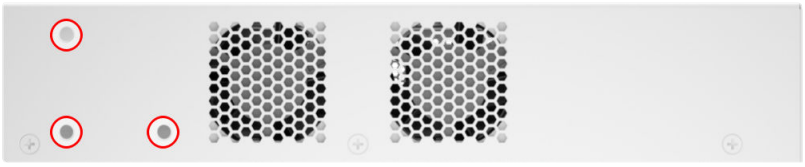
Installation in a 19-inch Cabinet

When installing the device in a cabinet, you need to install mounting ears, as shown in the following figure.

Mounting holes for the left mounting ear

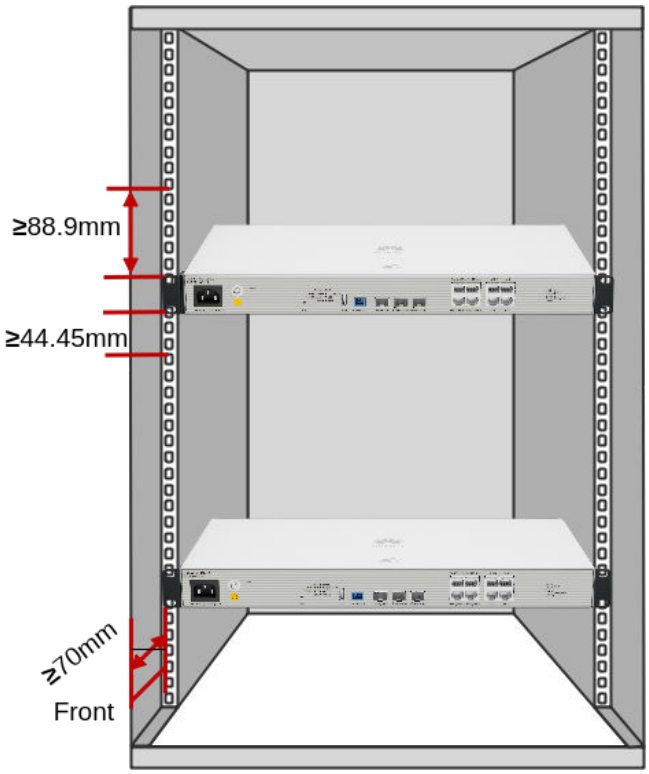


Mounting holes for the right mounting ear



NOTICE

- Do not stack devices in a cabinet. Ensure that the devices are properly grounded before power-on.
- For better heat dissipation, it is recommended that at least 88.9 mm (1 U = 44.45 mm, 88.9 mm = 2 U), 44.45 mm (1 U), and 70 mm space be reserved at the top, bottom, and front of the device.



Installation in a Network Box

NOTICE

When installing an ONU in a network box, ensure that the following requirements are met:

- Ambient temperature of the network box: ≤ 35°C.
- Do not install the device in an enclosed network box and verify that the air intake and exhaust vents are not blocked to ensure proper heat dissipation.
- A network box installed indoors or in a corridor free from rain must reach the IP31 protection level. Digit 3 means foreign matters with a diameter of 2.5 mm or larger cannot enter the box, and digit 1 means vertical water drops will not cause damages to the device.
- A network box installed in a corridor exposed to rain must reach the IP55 protection level. The first digit 5 indicates the protection level against solid foreign matters, meaning that dust may enter the box but will not cause damages to devices inside. The second digit 5 indicates the protection level against water, meaning that water ejected from every direction onto the box will not cause damages to devices inside.
- Requirements for installation in a network box: Holes are drilled at the bottom and top of the network box panel. The overall porosity rate is 12.8%, and the hole diameter is greater than 3 mm. The distance between the device and the power adapter should be as large as possible.
- The installation mode of the device varies with specifications of the network box prepared by the customer.

Figure 3-1 Horizontal installation diagram

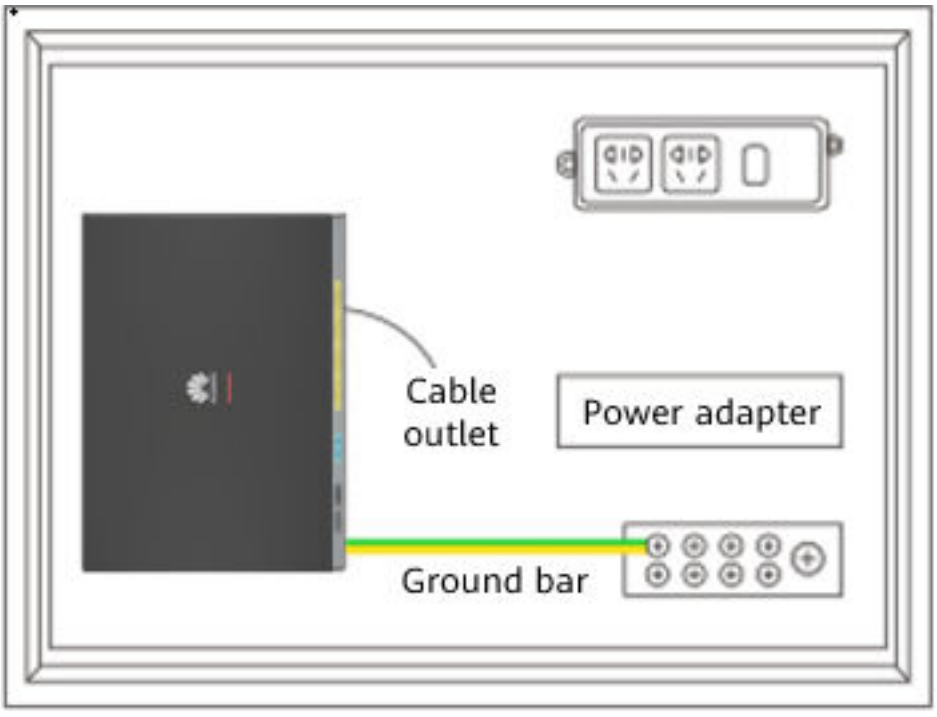
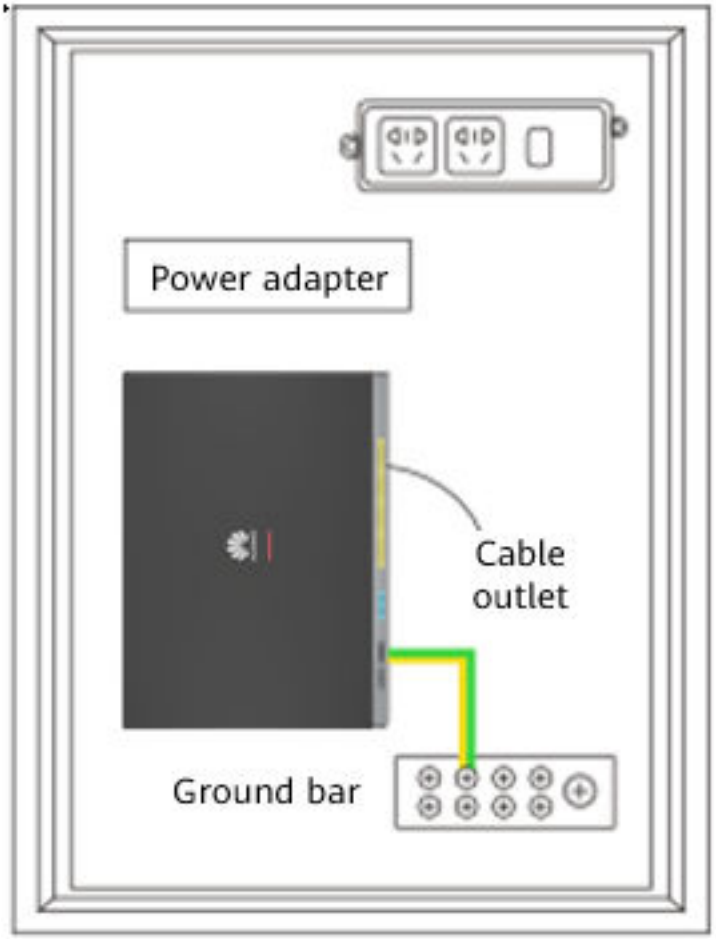
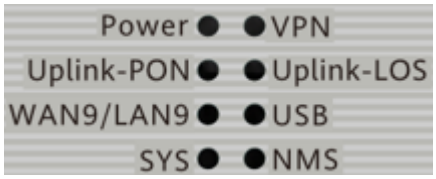


Figure 3-2 Vertical installation diagram



4 Description of Indicators

Figure 4-1 Silkscreen indicator area 1



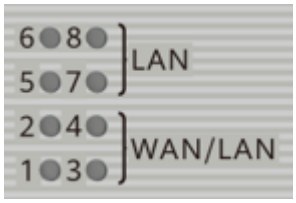
Indicator	Status	Description
Power	Steady green	The power supply is working properly.
	Off	The power supply is shut down or faulty.
Uplink-PON	Steady green	The device has been activated.
	Blinking green	The device is being activated.
	Off	The device is not activated, or the upstream optical port is not connected.
WAN9/LAN9	**Table 4-1**	
SYS	Steady red	Indicates the device system failure.
	Red blinking	Indicates that the system is too busy (CPU/memory utilization is exceeded).
	Steady green	Indicates that the system is normal, the connection is configured and the IP address is obtained.
	Green blinking	Indicates that the system is normal, the connection is configured but the IP address is not obtained.
	Off	Indicates that no network connection is configured.

Indicator	Status	Description
VPN	Steady green	Indicates that the VPN connection has been established but no data is being transmitted.
	Green blinking	Indicates that VPN data is being transmitted.
	Off	Indicates that the VPN connection is not established.
Upkink-LOS	Blinking red	The receive optical power is lower than the receiver sensitivity.
	Off	The Rx optical power is normal, or the upstream optical port is not connected.
USB	Steady green	Indicates that a USB connection has been established but no data is being transmitted.
	Green blinking	Indicates that a USB connection has been established and data is being transmitted.
	Off	Indicates that the USB connection is not established.
NMS	Steady green	Indicates that the NMS is connected.
	Off	Indicates that the NMS is not connected.

Table 4-1 WAN9/LAN9 indicator

Usage	Indicator	Description
Upstream	Steady green	The port is connected.
	Off	The port is not connected.
Downstream	Steady green	Indicates that the link is connected but there is no service stream.
	Blinking green	Indicates that there are service flows to be transmitted.
	Off	Indicates that the link is not connected.

Figure 4-2 Silkscreen indicator area 2



Indicator	Status	Description
LAN	Steady green	Indicates that the link is connected but no service stream is available.
	Blinking green	Indicates that there are service flows to be transmitted.
	Off	Indicates that the link is not connected.
WAN/LAN	Steady green	Indicates that the link is connected but no service stream is available.
	Blinking green	Indicates that there are service flows to be transmitted.
	Off	Indicates that the link is not connected.

5 Technical Specifications

Item	Specifications
Dimensions (H x W x D)	442mm × 220mm × 43.6mm
Weight (excluding adapter)	About 2.25kg
Rated power supply	AC: 100 – 240V AC, 50/60 Hz, 0.7 A
Operating temperature	-10°C to +55°C
Operating humidity	5% RH – 95% RH, non-condensing
Storage temperature and humidity	Compliant with ETSI EN 300 019-1-1 class 1.2

NOTICE

The valid storage period of the product is 9 months. Valid storage period refers to the period during which a product can be stored in a storage environment that meets the requirements of ETSI EN 300 019-1-1 Class 1.2.

6 FAQs

How Do I Download the eKit App?

Figure 6-1 App download address

How Do I Log in to the WebUI of an Optical Gateway?

Step 1 Set the IP address of the PC in the same network segment as the management IP address of the optical gateway.

NOTE

- For the default management IP address and subnet mask of an optical gateway, see the nameplate of the product.
- The nameplate is attached to the bottom of the device.

Step 2 Enter the management IP address of the optical gateway in the address box of a browser and press **Enter**. The login page is displayed.

Step 3 On the login page, enter the user name and password (for details, see the product nameplate), and click **Login**. After the password is authenticated, the web page is displayed.

- 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 web page.
- The system will be locked if you input incorrect user names and passwords for three consecutive times. One minute later, it will be unlocked.

- To ensure device security, change the login password after logging in to the WebUI using the initial user name and password.

----End

How Do I Log in to the WebUI of an Optical AP in a MiniFTTO Network?

NOTE

The actual WebUI may be different from the description. The actual WebUI prevails.

Method 1:

After an optical AP is connected to a MiniFTTO network, an IP address is automatically assigned to the optical AP. You can use this IP address to access the optical AP.

NOTE

You can obtain the IP address in either of the following ways:

- Log in to the WebUI of the optical gateway and choose **System Information > User Device Information** to view the IP address of an optical AP.
- Check on eSight. The login password is the same as the common user password of the optical gateway.

Method 2:

Log in to the WebUI of the optical gateway, choose **System Information > Network Information**, and click **Click to Login** under the optical AP icon. The WebUI of the optical AP is displayed.

How Do I Configure the Network for an Optical AP in a MiniFTTO Network?

After an optical AP is connected to a MiniFTTO network, the network settings of the optical gateway are synchronized to the optical AP. Therefore, no configuration is required on the optical AP.

How Do I Change the Wi-Fi Name and Password of an Optical AP in a MiniFTTO Network?

For the MiniFTTO networking solution, you are advised to change the Wi-Fi name and password on the optical gateway. An optical AP automatically synchronizes the changes.

