Huawei OptiXstar V183

Quick Start

Issue 01

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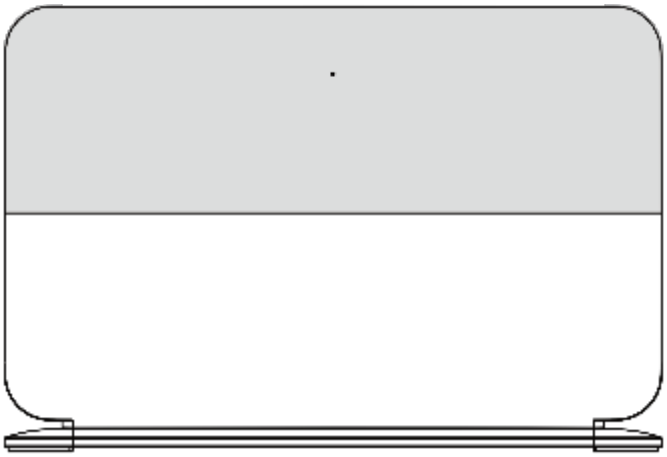
1 Device Introduction

Huawei OptiXstar V183 is a Master FTTR for the Huawei FTTR OptiXstar F30 Pro. It uses GPON/XGS-PON technologies to implement ultra-broadband access for users.



NOTE

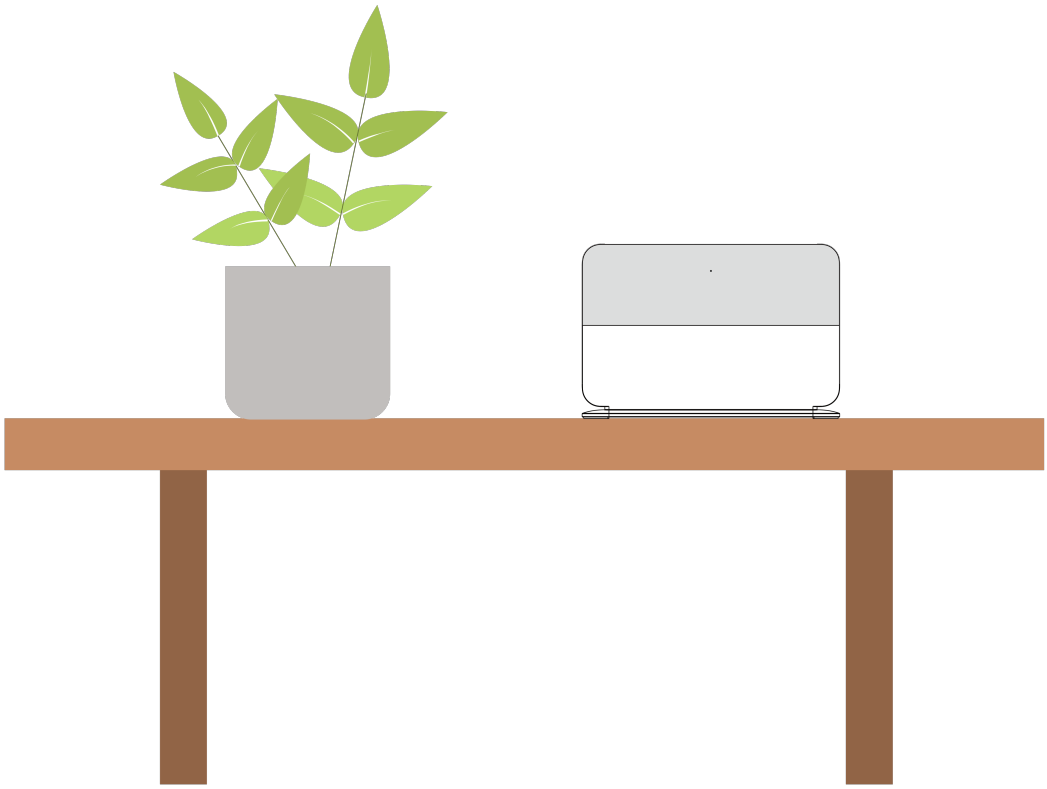
The figures in this document may differ from the actual products. The actual products prevail.

2 Placing the Device

CAUTION

Do not install the Master FTTR outdoors or in an outdoor cabinet.

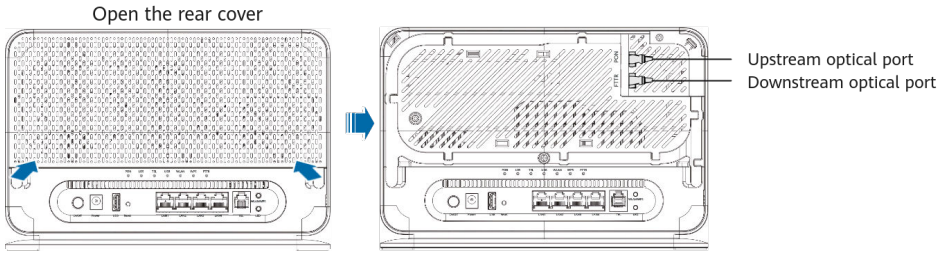
Vertically placed on a desk

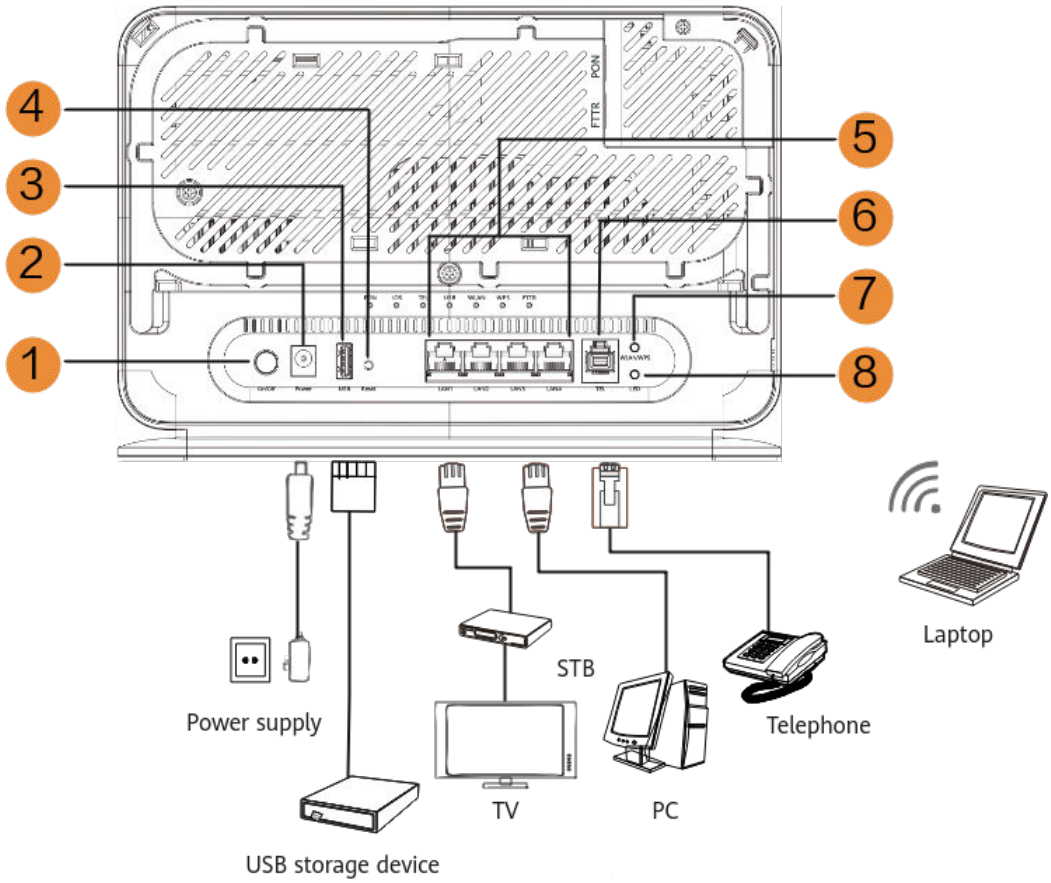


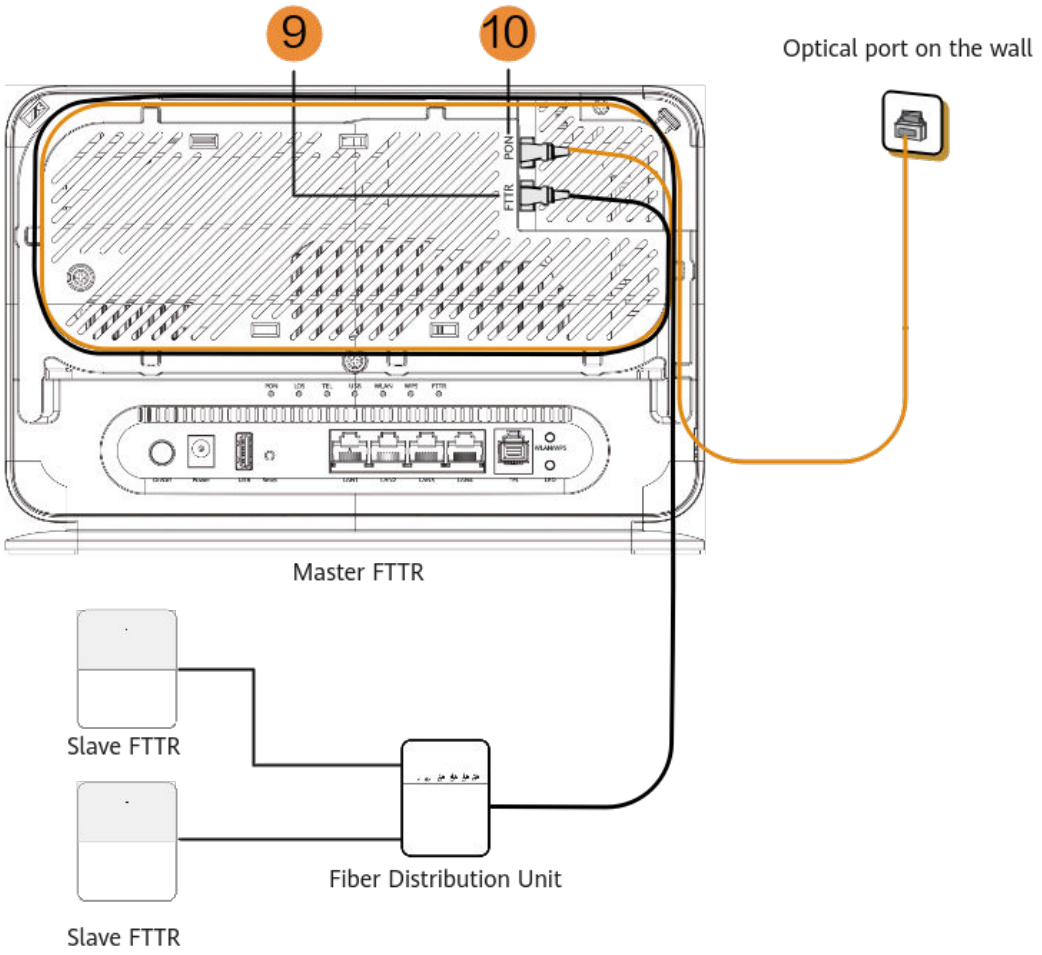
3 Connecting Cables

NOTE

- To extend Wi-Fi coverage at home, ask professional technicians to connect the Slave FTTR to the Master FTTR using optical network components. The Slave FTTR automatically synchronize Wi-Fi parameters from the Master FTTR.
- Before connecting optical fibers, open the rear cover of the Master FTTR.







No.	Port/Button	Description
1	On/Off	Turns on or off the device.
2	Power	Connects to a power cable.
3	USB	Connects to a USB device.
4	Reset	Restarts the device. When the device is started, use a needle-type object to press this button to restart the device. Press and hold this button for more than 10 seconds to restore factory settings and restart the device.
5	LAN1 to LAN4	Connects to a computer, IP STB, or router and supports 10/100/1000 Mbit/s auto-sensing.
6	TEL	Connects to a telephone or fax machine.

No.	Port/Button	Description
7	WLAN/WPS	Integrates the function of WLAN and WPS. • When the wireless function (WLAN) is enabled, press the WLAN/WPS switch for 1s to 5s to start Wi-Fi protected setup (WPS) negotiation. • When the wireless function (WLAN) is enabled, press and hold the button WLAN/WPS switch for more than 5s to turn off the wireless function (WLAN). • When the wireless function (WLAN) is disabled, tap the WLAN/WPS switch for more than 1s to turn on the wireless function (WLAN).
8	LED	Indicates the indicator switch. • On: The indicator is working properly. • Off: All indicators are off. **NOTE** You are advised to turn on the indicator switch to detect abnormal indicator status in a timely manner.
9	FTTR	Indicates a P2MP optical port, which is connected to the fiber distribution unit.
10	PON	Connects to drop cables and supports GPON or XGS-PON upstream access.

4 Indicator Description

Indicator	Status	Description
Indicator on the front panel (above the logo)	Steady on	• Steady red: The device is being powered on, or the device has been started but is not connected to the Internet. • Steady white: The device is started and connected to the Internet.
	Off	The device is powered off.
PON/LOS	See the following table.	
LAN1-LAN4 (with LED indicators)	Steady on	The network port is connected, but no data is being transmitted.
	Blinking	The network port is connected and data is being transmitted.
	Off	The network port is not connected.
TEL	Steady on	The telephone service is enabled.
	Blinking	The phone is being used.
	Off	The telephone service is disabled.
USB	Steady on	The USB port is connected, but no data is being transmitted.
	Blinking	Data is being transmitted over the USB port.
	Off	The USB port is not connected.
WLAN	Steady on	The WLAN function is enabled.
	Blinking	Data is being transmitted.
	Off	The WLAN function is disabled.
WPS	Steady on	WPS authentication is enabled.

Indicator	Status	Description
	Blinking	Terminals such as mobile phones are accessing the network.
	Off	WPS authentication is disabled.
FTTR	Steady on	Optical signals are detected on at least one downstream Slave FTTR.
	Off	No fiber is connected or no optical signal is received.

Status No.	PON Status	LOS Status	Description
1	Blinking rapidly (twice per second)	Off	The device is attempting to connect to the upper-layer device.
2	Steady on	Off	The device is connected to the upper-layer device.
3	Off	Blinking slowly (once every two seconds)	No fiber is connected or no optical signal is received.
4	Blinking slowly (once every two seconds)	Blinking slowly (once every two seconds)	Indicates a hardware fault.

NOTE

1. If the Master FTTR is not powered on or the power switch of the Master FTTR is turned off, all indicators are in the Off state.
2. What can I do if the indicator status is abnormal?

   a. Check whether the corresponding optical, network, POTS, or USB port is properly connected.

   One end of the fiber connector is located at the rear of a Master FTTR, and the other end is located on the wall or in the weak-current box.

   Note: Do not look into an optical port with naked eyes.

   b. If the WLAN indicator is abnormal, press the WLAN/WPS button on the Master FTTR to enable the WLAN function.

   c. Restart the Master FTTR.

   Press the On/Off button to turn off the Master FTTR. After a few seconds, turn on the Master FTTR.

   d. If the fault persists, contact the operator's service hotline and turn to the installation and maintenance personnel for help.

5 FAQs

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.

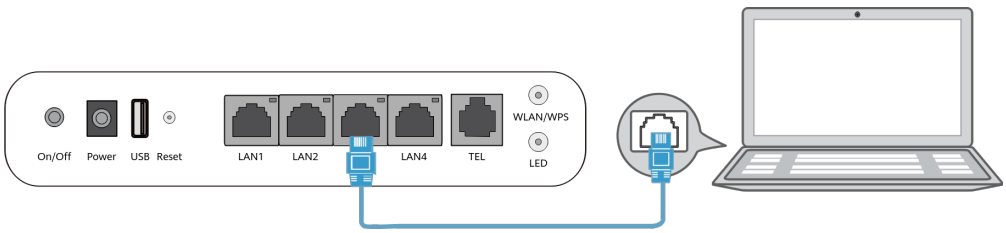
How do I log in to the Master FTTR web page?

- Wireless login

1. Connect your mobile phone, pad, or PC to the Wi-Fi network of the Master FTTR.
2. Enter the IP address in the address box of a browser and press **Enter**. On the displayed login page, enter the username and password. (For details about the IP address, login username, and password, see the product nameplate.)

- Wired login

1. Use a network cable to connect a PC to the Master FTTR.



NOTE

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

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

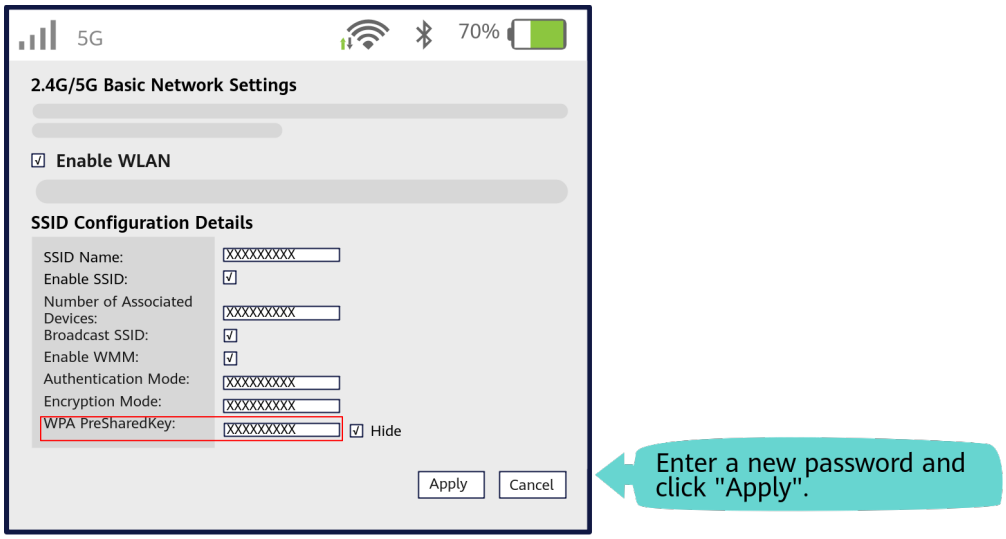
b. Enter the login user name and password (printed on the nameplate of the Master FTTR). Click **Log In**.

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.

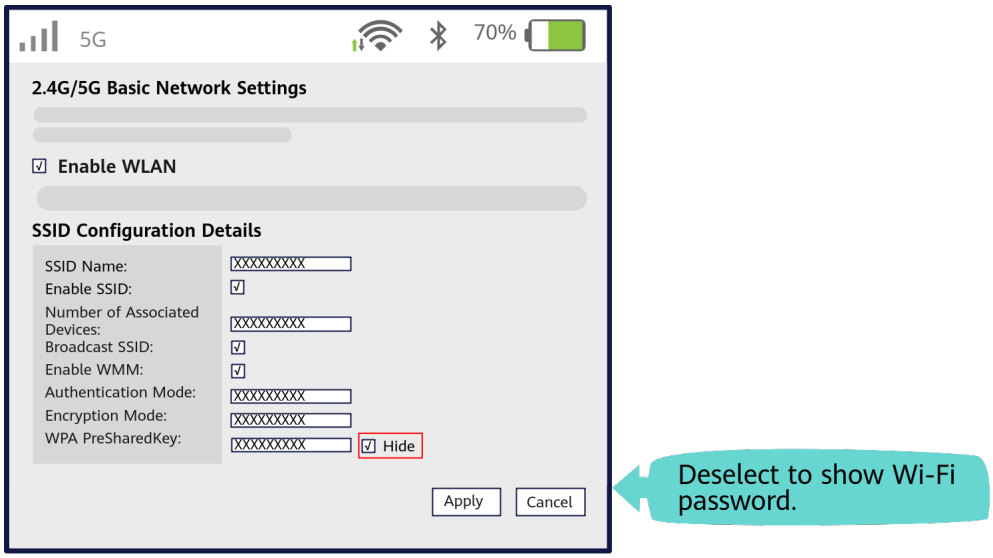
How do I change the Wi-Fi password?

1. Log in to the Master FTTR web page using your mobile phone, pad, or PC. For details, see "**How do I log in to the Master FTTR web page?**"
2. Choose the **Advanced > WLAN** tab and choose **2.4G Basic Network Settings**. (If you want to configure 5GHz Wi-Fi, choose **5G Basic Network Settings**.)

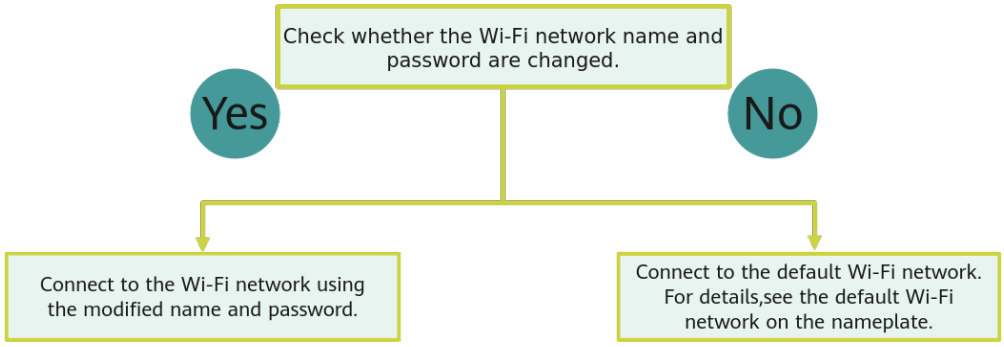


What can I do if I forget the Wi-Fi password?

1. Log in to the Master FTTR web page using your PC by wired login. For details, see "**How do I log in to the Master FTTR web page?**"
2. Choose the **Advanced > WLAN** tab and choose **2.4G Basic Network Settings**. (If you want to configure 5GHz Wi-Fi, choose **5G Basic Network Settings**.)



What can I do if I cannot connect to the Wi-Fi network?



How to improve the Wi-Fi speed of a Master FTTR?

1. Wi-Fi speed relies on the bandwidth provided by the ISP, so the simplest way is to upgrade to faster broadband.
2. Wi-Fi speed is affected by the Wi-Fi signal strength and quality.

   2.1 Determine the deployment positions of Master FTTR based on house structures, indoor obstacles, and electrical appliance-caused interferences. If possible, put Master FTTR in the middle of a planned coverage area and ensure that no obstacles exist and they are placed at high positions for better coverage. In addition, ensure that the Master FTTR is far away from interference sources such as TVs, refrigerators, cordless phones, and Bluetooth devices.

   2.2 Note that load-bearing walls, floors, and metal coated glass may block Wi-Fi signals, avoid or reduce these obstacles between the Master FTTR and Wi-Fi devices (such as pads, mobile phones, and laptops). For outdoor yards, large balconies, and compound rooms, etc., it is recommended to add repeaters to enhance the Wi-Fi coverage.

   2.3 For common places where users access the Internet, such as a living room, study room, or master room, pre-evaluate whether their signal strength is strong enough. If the signal strength is insufficient(Generally, lower than -72dBm), it is recommended to adjust Master FTTR positions or add new repeaters to enhance the Wi-Fi coverage.

3. Using the correct radio channel. Generally, the Master FTTR automatically selects the optimal channel. If the network is slow or the quality turns poor from time to time, you can use a Wi-Fi scanner such as Wi-Fi Stumbler or Wi-Fi Analyzer to search for the optimal channel.
4. To prevent unauthorized network access, log in to the web interface of the router and select MAC address filtering based on your requirements.

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, mobile phone, or pad to check whether the network speed is normal.

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

- The Master FTTR supports 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 the phone.

How do I restore the Master FTTR to factory setting?

Press **Reset** by using a needle-type object for longer than 10s to restore factory defaults and reset the Master FTTR. 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 Master FTTR configuration information and further cause an Internet access failure. If this problem occurs, contact your service provider for help.

How can I download Master FTTR firmware or software?

Master FTTR is used with an OLT and NMS of a required version. If the versions are not the required ones, the Master FTTR may not work.

If required, contact your internet service provider to obtain the correct Master FTTR firmware or software.

