

Huawei OptiXstar HG8145X6 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.

Safety precautions:

- 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.
- 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.
- Prevent objects, such as metal, from entering the device through the heat dissipation hole.
- Dry your hands before connecting or disconnecting cables. Stop the device and switch off the power before connecting or disconnecting cables.
- 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 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.
- Install the device according to the requirements of the manufacturer. To be specific, reserve at least 10 cm for heat dissipation at the top and four sides of the device, keep the device away from flammable objects, highly magnetic or electric devices, such as microwave ovens, refrigerators, and mobile phones.
- Do not place any object on the device, so that the device will not be damaged due to overheating or deformation.
- 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.

1 Packing List

The following table lists the items in the product package.

Item	Quantity
GPON Terminal	1
Power Adapter	1
Ethernet Cable	1
Fiber Patch cord	1



If you find anything missing or damaged, contact the service provider.

2 Product Overview

Product	Function	
HG8145X6	 4 Gigabit Ethernet ports 1 POTS port 1 USB port 2.4G(2*2MIMO)+5G(2*2MIMO) 	

3 Technical Specifications

- Power adapter input: See the nameplate on the adapter.
- 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
HG8145X6	About 450 g	$\leq 18 \text{ W}$

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

🛄 ΝΟΤΕ

-The fiber connected to the optical port depending on actual conditions.

-To ensure normal use of fibers, make sure that the fiber bend radius is larger than 30 mm.

<u>Step 2</u> 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.

D NOTE

Do not use any power adapters that are not in the standard configuration. Otherwise, the device may be abnormal or unsafe.

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.

Step 7 Press the WLAN switch to enable the WLAN function.

- When the WLAN is off, press the WLAN button (> 3s) and release the button to open the WLAN.

- When the WLAN is on, press the WLAN button (> 3s) and release the button to close the WLAN.

<u>Step 8</u> When the WLAN is on, press the **WPS** button (> 3s) and release the button to start Wi-Fi protected setup (WPS) negotiation.

The connections between the HG8145X6 and other devices are shown as follows.



The following table describes the interface of the device:

Port/Button	Description
TEL	Indicates VoIP telephone ports (RJ-11), used to connecting to the ports on telephone sets.
LAN	Ethernet RJ-45 interface connecting to an Access Point.
USB	USB host port, used to connect to USB storage devices.
POWER	Interface connecting to the power adapter.
ON/OFF	Push to power on/off the device.
Reset	Press the button for a short time to reset the device; press the button for a long time (longer than 10s) to restore the device to the default settings and reset the device.
WPS	The WPS button, used to enable or disable the Wi-Fi Protected Setup switch. 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.
WLAN	The WLAN button, used to enable or disable the WLAN function. By default, this function is enabled.
OPTICAL	The optical port is equipped with a rubber plug and is connected to an optical fiber for transmission.

5.1 Configure IP Address of Network Card

Configure TCP/IP properties of your network card to **Obtain an IP address automatically** from ONT, or set the IP address of the computer with the same network mask of the ONT.

L NOTE The default management IP address and subnet mask of the GPON terminal are as follows: -IP address: 192.168.1.1 -Subnet mask: 255.255.055.0

5.2 Internet Settings

Step 1 Open the Internet Explorer (IE) browser and enter http://192.168.1.1/3bb.

<u>Step 2</u> In the Quick Configuration page that is displayed, enter the user name, password (for surf internet) and validate code.

BB	
BROADBAND	
Enter your user name and password	for Internet access.
User Name : default@3bb	
Password :	••••
Validate Code :	
apjnS	Refresh
Save	Close
A	10 A A A A A A A A A A A A A A A A A A A

After finishing, click Save to apply the internet settings.

<u>Step 3</u> In the Quick Configuration page appears pop-up "Save Completed", click **OK** to close this page.

3	lessage from webpage	BROADBAN
cess	A Save Completed	Enter your user name User Name :[c Password :[
	ОК	Validate Code :
	Close	Save

Step 4 In the Quick Configuration page that is displayed, click Close to close this page.

3B	B
Enter your user na User Name Password Validate Code	me and password for Internet access.
S	apjns Refresh

5.3 Wireless Settings

Step 1 Open the Internet Explorer (IE) browser and enter http://192.168.1.1.

<u>Step 2</u> In the login window, enter the user name, password (see the device nameplate for the default user name and password) and validate code.

	HG8145X6
User Name :	
Password :	
Validate Code : g z 8 Copyright © 2029 Huarret	a n Refresh Login Tachindojes Co , Mi All agits reserved

Step 3 Click Login. After the password is authenticated, the Web configuration window is

displayed.



-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.

<u>Step 4</u> In the navigation tree, choose WLAN > 2.4G Basic Network Settings or WLAN > 5G Basic Network Settings.

<u>Step 5</u> In the pane, select the Enable WLAN (2.4 GHz or 5 GHz) option box. In the dialog box that is displayed, set the basic Wi-Fi parameters, including the SSID, authentication mode, and encryption mode.

🛄 NOTE

-SSID: SSID indicates the name of a wireless network searched by the Wi-Fi terminal (see the device nameplate for the default SSID).

-WPA PreSharedKey: WPA PreSharedKey indicates the authentication password for the Wi-Fi terminal to access a wireless network (see the device nameplate for the default WLAN Key).

2.4G Basic Network Settings:

	45X6			Logou	
2.4G Basic Network Settings	AN LAN IPv6 WLAN S	ecurity Route I	orward Rules Network Application	Voice System Tools	
2.4G Advanced Network Settings	1				
SC David Network Settings	a har and a second		and at 2 d office standards and said dataset	the first sector and the sector of the	
The second block of the second second	is disabled, this page is I	nime oasic parante blank).	sets of 2.4 GHZ orrelets network (vines)	Ine 2.4 GPC Wreless network	
SC Advanced Network Security	Caution:				
Automatic Wi-Fi Shutdown Wi-Fi Coverage Management	Wreeks network services may be interrupted temporarily after you modify wreiters network parameters. It is recommended that you use the WPA3 or WPA3 suthentication mode for security purposes.				
	* Enable WLAN				
				New Delete	
	SSID Index SSID Nam 1 3bb-wian	e \$SID Status Nur Enabled 32	nber of Associated Devices Broadcast Enabled	SSID Security Configuration Configured	
	SSID Configuration Deta	its			
	SSID Name:	3bb-wian	* (1-32 characters)		
	Enable SSID:				
	Number of Associated Devices	32			
	Broadcast SSID.				
	Enable WMM:	20			
	Authentication Mode:	WPA/WPA2 P	eSharedKe: •		
	Encryption Mode:	AES	•		
	WPA PreSharedKey:		Hide "(8-63 characters	or 64 hexadecimal characters)	
	WPA Group Key Regeneration Interval	85400	1(600-86400s)		
	Enable WPS	0			
	WPS Mode:	PBC			
	PBC:	Start WPS			
		Apply Cano			

5G Basic Network Settings:

2.4G Basic Network Settings	WLAN > 5G Basic Network S	Settings			
4G Advanced Network Settings G Basic Network Settings G Advanced Network Settings Automatic Wi-Fi Shutdown Mi-Fi Coverage Management	On this page, you can se disabled, this page is blar Coution. 1. Wreless network servi 2. If is recommended the	t the basic parameter nk3 ces may be interrupte t you use the WPA3 o	s of 5 GHz wireless network id temporarily after you modil r WPA2/WPA3 authentication	When the 5 GHz ly wireless netwo i mode for securi	t witeless network is rk parameters ty purposes
	🧭 Enable WLAN				New Delete
	SSID SSID Na	me SSID Status	Number of Associated Devices	Broadcast \$SID	Security Configuration
	5 000est300-54	3-wian-Enabled 3	2	Enabled	Configured
	SSID Configuration Detail	15			
	SSID Name:	3bb-5G-wian	* (1-32 characters)		
	Enable SSID:				
	Number of Associated				
	Devices	32	* (1-32)		
	Rmadrast SSID				
	Enable WMM	2			
	Authentication Mode:	WRANEA2 Pres	haradi/a T		
	Encounting Made	are			
	WPA DisSharadker	INE 0	107 Million 110, 83 cm	and there are full by	contractment etcacardises)
	WD3 Once Key		- How to obtain	10-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	characterian characterizz
	Reconstition interval	85400	*(000-88400s)		
	Carple 1870				
	LINK MARK				
	WPG MODE	PBC			
	PDV.	Stan NPS			
		Apply Cancel			

Step 6 Click Apply.

Table 1	Indicator	status	description	1
---------	-----------	--------	-------------	---

Indicator	Status	Description	
	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.	
	Blinking	Data is being transmitted on the USB port.	
	Off	The USB port is not connected.	
TEL	Steady on	The terminal is registered with the softswitch but no service flows are transmitted.	
	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.	
LAN	Blinking	Data is being transmitted on the Ethernet port.	
	Off	The Ethernet connection is not set up.	
LOS/PON	See Table 2.		
POWFR	Steady on	The ONT is powered on.	
1 O WER	Off	The power supply is cut off.	

Table 2 Indicator status description 2

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



If the ONT is not powered on, all indicators are off.