

客户 HDV (中性)

版本

A0

图例

1:1

尺寸 单面80x105mm 展开320x105mm

材质

80g双胶纸

工艺 双面四折页

应用产品

86盒

备注 文本清晰，无断笔，无污迹

320.00 mm

105.00 mm

1 XPON/EPON ONU User Manual

Chapter 1: Overview

1.1 Product Description

XPON/EPON ONU is designed as HGU(Home Gateway Unit) in different FTTH solutions. The carrier-class FTTH application provides different services access. It is based on mature and stable, cost-effective XPON Technology. XPON ONU can switch automatically with EPON and GPON mode when it access to the EPON or GPON OLT. It adopts high reliability, easy management, configuration flexibility and good quality of service (QoS) guarantees to meet the technical performance of the EPON Standard of IEEE802.3ah, CTCS 0, and GPON Standard of ITU-TG.984.X

1.2 Product Feature and Model list

XPON Model	Feature	XPON Model	Feature
HUR3008ER	■ 1GE ■ WIFI	HUR3111XRLZ	■ 1GE ■ WIFI

Table 1: Model List

◆ Notes: All schematic drawings in the document may be different from the real products. These differences will not affect the product functions. Please refer to the label at the bottom for the specific model to get current PON mode.

1.3 Functional Feature

- Support EPON/GPON mode and switch mode automatically
- Support Route mode for PPPoE/IPoE/Static IP and Bridge Mode
- Support 2.4G WIFI 2T 2R MIMO and Multiple SSID
- Specialized design for system breakdown prevention to maintain stable system

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1.4 Technical Parameters

Technical Item	Details
PON Interface	1 GE/EPON SFFI(EPON PX20+ and GPON Class B+)
	1 GE/PON SFFI (Bona on Board)
	Receiving sensitivity: -27dBm Transmitting optical power: +1~+4dBm Transmission distance: 20KM
Wavelength	TX: 1310nm, RX: 1490nm
Optical Interface	SC/APC Connector for ONU
LAN Interface	LAN port for GE auto adaptive mode: Full/Half, RJ45 connector
Wireless	Compliant with IEEE802.11b/g/n
	Operating frequency: 2.400-2.4835GHz
	Support MIMO 2T2R, Rate up to 300Mbps
	2 external antennas 5dB Support multiple SSID Channel: Auto Modulation type: DSSS, CCK and OFDM Encoding scheme: BPSK, QPSK, 16QAM and 64QAM
LED	4LED for status of wifi, power, lan, port status
Push-Button	1. To For led on/off, 5s for Function of WPS, 10s for Function of Reset
Operating Condition	Temperature: -30°C~+60°C Humidity: 10%~90% (non-condensing)
Storing Condition	Temperature: -30°C~+60°C Humidity: 10%~90% (non-condensing)
Power Supply	DC 12V/1A
Power Consumption	50W
Dimension	125mm*95mm*70mm (L*W*H)
Net Weight	≤0.23Kg

Table 2: Technical parameters

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1.5 Panel LED Description

Pilot Lamp	Status	Description
WIFI	On	The WIFI interface is up.
	Blink	The WIFI interface is sending or/and receiving data (ACT).
PWR	On	The device is powered up.
	Off	The device is powered down.
PON/LOS	Red Blink	The device does not receive optical signals or with low signals.
	Red off	The device has received optical signal.
	Green on	The device has registered to the PON system.
LAN	Green blink	The device is registering the PON system.
	Green off	The device registration is incorrect.
LAN	On	Port is connected properly (LINK UP).
	Blink	Port is sending or/and receiving data (ACT).
LAN	On	Port connection exception or not connected(LINK DOWN).
	Off	Port connection exception or not connected(LINK DOWN).

Table 3: Panel lights on

1.6 Packing List

After opening the product packaging, please carefully check the items in the following table. If they are inconsistent with the reality, please contact the supplier.

Contents	Quantity
ONU	1pcs
Power adapter	1pcs
User manual	1pcs

Table 4: Packing List

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Chapter 2: Installation

2.1 Equipment Installation

ONU product is a fixed configuration cassette equipment. Simply install the device on a specified place, connecting the fiber and connect the Power adapter. Actual operation is as follows:

2.1.1 Installed on the desktop

Place the machine on a clean bench, you can observe the following operation:

- Ensure the smooth workbench
- Around the device enough space for heat dissipation
- Do not place objects on the device

2.1.2 Mounted on the wall

- Observation ONU equipment chassis two cruciform recess, in accordance with the position of the groove, fix two screws in the wall
- Put the original two mounting screws gently snap into recesses aligned
- Slowly move the screw in the groove to fix the device firmly on the wall

2.2 Installation Requirements

To avoid equipment damage caused by improper use and personal injury, please observe the following precautions:

- Do not place the device near water or in damp places, in order to prevent water or moisture from entering the device.
- Do not put the device in an unstable place, avoid falling damage to equipment.
- Make sure that the supply voltage of the device matches the required voltage value.
- Do not open the equipment chassis without permission.
- Make sure that the connected optical fiber is clean and within a reasonable optical power range

2.3 Environment requirements

ONU equipment must be installed in a dry and ventilated place, and to ensure the following conditions:

- Confirmation at the ONU installation at sufficient space to facilitate cooling machine.
- ONU suitable operating temperature of 0°C—50°C, humidity 10% to 90%.
- Electromagnetic Environment

ONU equipment in use can be affected by external electromagnetic interference, such as radiation and conduction has the impact on the device, this should note the following:

- Device workplace should avoid radio transmitters, radar stations, and high-frequency electric equipment.

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Chapter 3: Web Management

2.4 Cable Connection

Rear View for multiple port (1G+WiFi)

After finishing the basic connection configuration, you can use its basic function. In order to satisfy individualization service requirements, this chapter provides the user parameter modification and individualization configuration description.

3.1 Login

The device is configured by the web interface. The following steps will enable you to login:

- The device management default IP address is 192.168.1.1;
- Open your web browser, type the device IP in address bar;
- Entry of the user name and password will be prompted. Enter the default login user name and password.

By default, there are only one user levels for management. Administration level user name is "admin", password is "admin". The Administration account is able to access and modify all settings of ONU. It also can modify user account's username and password.

Figure 3-1: Login

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3.2 Status

This part shows the main information of device and the active status about major services.

3.2.1 Device Information

This page shows the basic information about current device, such as Device Name, Firmware version, LAN and WAN configuration.

Figure 3-2: Device Status

3.2.1 LAN Interface Settings

This part supports the management of the ONU's IPv4 address, user can change ONU LAN IP address according local network application and enable/disable IGMP Snooping configuration.

Figure 3-3: LAN Interface Settings

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3.4 WLAN Basic Settings

This page allows the user to configure the basic settings, including Enable/Disable WLAN interface, Band/work mode, SSID Name, Channel Width and Show Active WLAN Clients.

Figure 3-4: WLAN Basic Settings

3.5 Firmware Upgrade

This page allows the user to update the software of the device. Click the "Choose File" button to select the software and then click the "Upgrade" button to update. When the device upgrade succeeds, it would reboot automatically. The whole process of upgrade will take 3-4 minutes.

Figure 3-5: Firmware Upgrade

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Chapter 3: Troubleshooting

1. Why does LED of LAN not light?

Reasons:

- Network cable is damaged or loose connection;
- Cable type errors;
- Cable length exceeds the allowable range

Solution:

- Plug the cable tightly;
- Replace the network cable and pay attention to the standard cable must be parallel or crossing lines.

2. Why is LED of LOS always blinking?

Reasons:

- Fiber connector loose and dirty;
- ONU PON module broken;
- Center office equipment failure;

Solution:

- Check the connection characteristics of optical fiber, whether connected to the correct connector and whether optical power is in a normal range;
- Contact your operator;
- Why does LED of PON flashed instead of always on?

Reasons:

- Fiber connector loose and dirty;
- ONU PON module broken;
- Center office equipment failure;

Solution:

- Inspect fiber is connected properly, is connected to the correct connector, optical power is normal;
- Contact your operator;
- Why does ONU stop working after working for a long time?

Reasons:

- Power supply is not working properly;
- Central office equipment failure;

Solution:

- Change the power adapter;
- Reboot the ONU;
- Contact your operator;