

标题

MICRO ONU说明书

图号

CDR20230111-1

客户名

中性

320.00 mm

1 EPON/XPON 1GE ONU User Manual

Chapter1: Overview

1.1 Product Description

EPON/XPON 1GE ONU meet telecom operators FTTO (Office), FTTB (Building), FTTH (Home) broadband speed, home broadband access, video surveillance and other requirements and design an EPON/XPON Gigabit Ethernet products. It is based on mature and stable, cost-effective EPON/XPON technology, high reliability, easy management, configuration flexibility and good quality of service (QoS) guarantees to meet the technical performance of the module IEEE802.3ah, China Telecom EPON/XPON equipment technical requirements and other specifications..

1.2 Application Chart

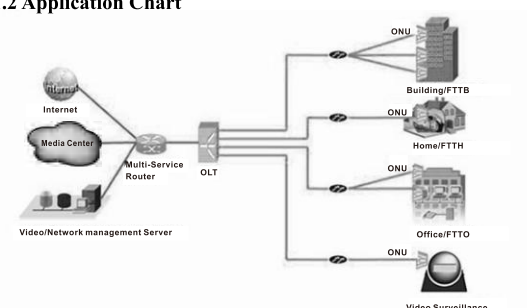


Figure 1 Application Chart

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Technical Item	1GE
PON interface	1×EPON UPLC connector, SC single-mode / single-fiber, downlink 1.244Gbps, uplink 1.244 Gbps
Optical interface	1×PON UPLC connector, SC single-mode / single-fiber, downlink 2.488Gbps, uplink 1.244 Gbps
Wavelength	Tx1310nm, Rx1490nm
LAN interface	SC connector
LED	4, For Status of POWER, LOS, PON, LAN
Operating condition	Temperature: 0°C ~ 50°C Humidity: 10% ~ 90% (non-condensing)
Storing condition	Temperature: -40°C ~ 85°C Humidity: 10% ~ 90% (non-condensing)
Power supply	Type-C 5V 1A
Power consumption	<3W
Dimension	21.5mm* 17mm*92mm
Net weight	0.03±1KG

Table 1 Technical parameters

1.3 Technical parameters

Equipment Installation

ONU product is a fixed configuration cassette equipment, site equipment installation is relatively simple. Simply install the device on a specified place, connecting the upstream fiber subscriber line connections, connect the power cable. Actual operation is as follows:

- Installed on the desktop
- Place the machine on a clean bench, this installation is relatively simple, you can observe the following operation:
 - Ensure the smooth workbench.
 - Do not place objects on the device.
- Linetype ONU
 - Around the device enough space for heat dissipation.
 - You can use any USB port power

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Chapter2: Installation

2.1 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.
- Unplug before cleaning the power plug; prohibit the use of liquid cleaning.

Installation Environment requirements

ONU equipment must be installed in the interior, 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 interferences, such as radiation and conduction through the impact on the device, this should note the following:

- Device workplace should avoid radio transmitters, radar stations, and high-frequency interface from power equipment.
- User cable typically require alignment indoors if outdoor lighting traces measures should.

2.2 Panel lights on

LED	Mark	Status	Description
Power	PWR	ON	The device is powered up.
		OFF	The device is powered down.
Optical signal loss	LOS	Blink	Device does not receive optical signals.
		OFF	Device has received optical signal.
Registration	PON	ON	The device is registered to the PON system.
		OFF	Device is not registered to the PON system.
Interface	LINK/ACT	Blink	Device registration is incorrect.
		ON	Port is connected properly (LINK).
		OFF	Port connection exception or not connected.
		Blink	Port is sending or/and receiving data (ACT).

Table 2 Panel lights on

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2.3 Lan Port Connection definition

Grade No.	Function	Direction	Grade No.	Function	Direction
1	BL_D0+(Bi-directional Data+)	Input/output	5	BL_D2-(Bi-directional Data-)	Input/output
2	BL_D0-(Bi-directional Data-)	Input/output	6	BL_D1-(Bi-directional Data-)	Input/output
3	BL_D1+(Bi-directional Data+)	Input/output	7	BL_D3+(Bi-directional Data+)	Input/output
4	BL_D2-(Bi-directional Data-)	Input/output	8	BL_D3-(Bi-directional Data-)	Input/output

Table 3 GE Connection definition

2.4 Equipment List

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

Table 4 Equipment List

Chapter3: Web Management

EPON/XPON ONU provides simple Web management functions, including Device Informations, modify Lan Management IP address, Loid, Password, Configuration File, Backup, Upload, Restore, firmware upgrade etc...

NOTE:

- About More ONU Detail Configuration Should Be Configured Via EPON/GPON Protocols From OLT.

3.1 Default configuration


The following is the default device configuration information.

- Local (LAN access) Username: **admin**, Password: **admin**
- LAN port management IP address: **192.168.1.1**

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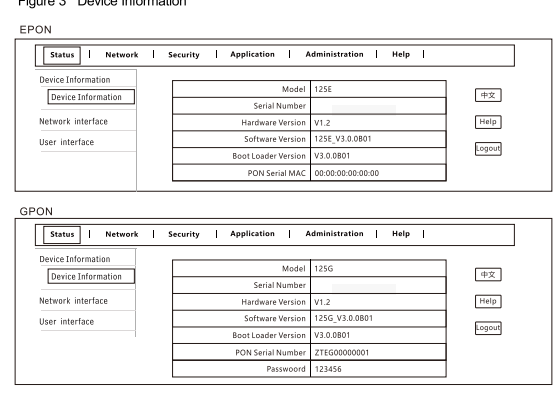
3.2 Basic Configuration

Figure 2 Web login



Web login default username: admin, password: admin

Figure 3 Device Information

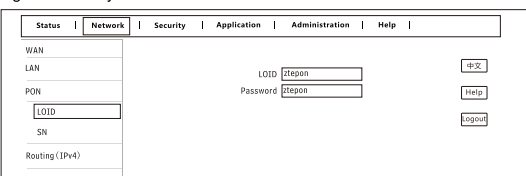


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Device Info Menu displays the current device base informations. Including Hardware Version, Software Version and Boot Loader Version.

Note:All the device information may be changed, the received device shall prevail. XPON ONU can work as EPON or GPON mode, it display different web UI the pon mode Auto changed according OLT type. EPON ONU display EPON web UI

Figure 4 Modify LOID and Password



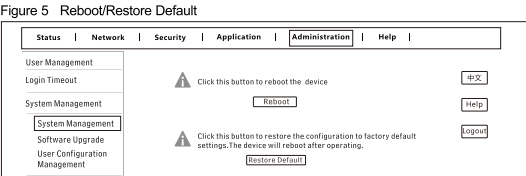
LOID Menu displays the current device Loid and Password information.

LOID: 1-24 bytes. **Password:** 0-12 bytes.

Note:

- Usually no need to modify the Version and Vendor Product Code information. Otherwise it may lead to ONU registration problems.
- All the changes to take effect in the equipment after the restart.

Figure 5 Reboot/Restore Default



Reboot: The operation to reboot the device.

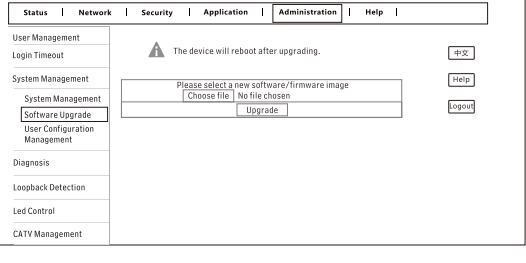
Restore Default: The operation to restore the device to its factory configuration.

Note:

- Press RST button over 10 seconds, ONU can restore factory default and reboot.
- Press RST button quickly, ONU reboot.

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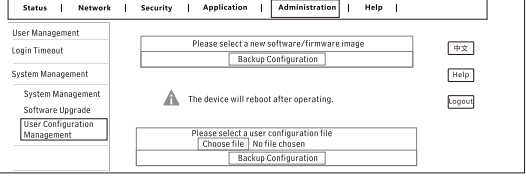
Figure6 Upgrade



Firmware upgrade Menu displays the current equipment upgrades related information.

Note: xpon onu upgrade, EPON mode and GPON mode is separated,2 different upgrade FW

Figure 7 Backup/Restore Configuration



Backup Configuration: The operation to backup configuration from the device.

Restore Configuration: The operation to restore configuration from a configuration file.

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Chapter4: Troubleshooting

1. After power all the lights are lit?

Reasons:

- Power connection errors;
- Power is not normal.

Solution:

- Check that the power cable is connected;
- The rear panel of the power supply is turned on.

2. LAN led does not light?

Reasons:

- Network cable is damaged or loose connection;
- Cable type error;
- Long lines outside the allowable range.

Solution:

- Replace the network cable, and pay attention to the standard Ethernet cable must be parallel or crossing lines.

3. After working for some time to stop working?

Reasons:

- Power supply is not working properly;
- The equipment from overheating.

Solution:

- Check if there is contact with abnormal voltage is too high or too low;
- Check the ambient conditions, vents are normal ventilation.

4. LOS led flashes?

Reasons:

- Fiber failure;
- Center office equipment failure.

Solution:

- Inspect fiber is connected properly, is connected to the correct connector, optical power is normal;
- Contact your operator.

5. PON led flashes?

Reasons:

- Fiber optic connector is loose;
- Central office equipment failure;
- Fiber optic connector are dust.

Solution:

- Inspect fiber is connected properly;
- Cotton ball with alcohol swabbing fiber optic connectors;
- Contact your operator.

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ONU 说明书

尺寸比例

1:1

美工

业务

工程

文控

注：ONU说明书尺寸：320*105mm 双面四折页
内容颜色为黑色、灰色，内容清楚，字迹清晰，无断笔