

CHAPTER 1 PRODUCT INTRODUCTION

1.1 PRODUCT DESCRIPTION

Thank you for choosing the ZTE128 XPON ONU. The product is designed as HGU (Home Gateway Unit)/SFU(Single Family Unit ) in different FTTH solutions. The carrier-class FTTH application provides data service access. It is based on mature and stable, cost-effective XPON technology. XPON can switch automatically with EPON and GPON mode when it accesses to the EPON OLT or GPON OLT. It adopts high reliability, easy management, configuration flexibility and good quality of service (QoS) guarantees to meet the technical performance of EPON Standard of China Telecom CTC3.0 and GPON Standard of ITU-TG.984.X.

1.2 SPECIAL FEATURES

- Support EPON/GPON mode and switch mode automatically
Support HGU Function
Support Route mode for PPPoE/DHCP/Static IP and Bridge mode
Support IPv4 and IPv6 Dual Mode
Support LAN IP and DHCP Server configuration
Support Port Mapping and Loop-Detect
Support Firewall function and ACL function
Support IGMP Snooping/Proxy multicast feature

1.3 TECHNICAL PARAMETER

Table with 2 columns: Technical item, Details. Includes PON Interface, Wavelength, Optical Interface, LAN Interface, Push-Button, Operating Condition, Storing Condition, Power Supply, Poer Consumption.

Table 1: Technical parameters

1.4 PANEL DESCRIPTION

Table with 3 columns: LED, Status, Description. Lists POWER, PON, LOS, LAN1/2/3/4, WIFI(2.4/5G), and POTS LEDs.

Table 2: Panel Lights Description

CHAPTER 2 QUICK INSTALLATION

2.1 STANDARD PACKING CONTENTS

When you receive our products, please check carefully to make sure that our products whether have some defects or not. If something wrong with shipings, please contact carrier; other damage or lack of some parts, please contact with dealer.

Table with 2 columns: Contents, Description. Lists ONU, Power Adapter, and User Manual.

Table 3: Packing Contents

2.2 QUICK INSTALLATION

- 1.Connecting the optical fiber cable to the unit.
a)Remove the protective cap of the optical fiber.
b)Clean the end of the optical fiber with an optical fiber end cleaner.
c)Remove the protective cap of the ONU optical interface (PON interface). Connect the fiber to the PON port on the unit.
Note: When measuring the optical power before connecting to the ONU, it is recommended to use a PON Inline Power Meter. The receiver optical power should be between -8dbm and -27 dbm by using 1490nm.

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XPON ONU USER MANUAL (ZTE128S)

- While connecting, please note:
Keep the optical connector and the optical fiber clean.
Make sure there are no tight bends in the fiber and that the bending diameter is greater than 6cm.
Cover all optic ports and connectors with protective cap to guard against dust and moisture when the fiber is not used.
Apply power to the unit.
After the ONU is power ON, Indicators should light up as for normal operation.
Check whether the PON interface status LED (PON) is on continuously.
Check all signal levels and services on all the ONU communication ports.
Unit Installation Adjustment
Installing the ONU on a horizontal surface (Bench top)
Put the ONU on a clean flat, sturdy bench top. You must keep the clearance for all sides of the unit to more than 10cm for heat dissipation.

2.3 CABLE CONNECTION

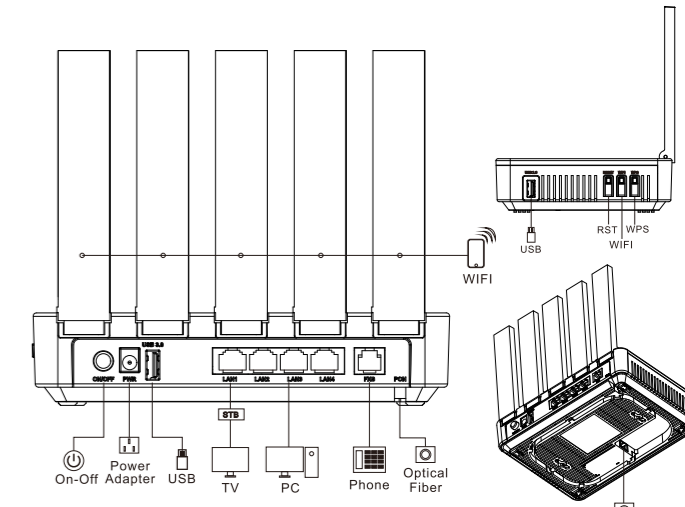


Figure 2-3: Cable Connection

CHAPTER 3 CONFIGURATION

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

3.1 LOGIN

- The device is configured by the web interface. The following steps will enable you to login:
1. Conform "2.2 Quick Installation" to install;
2. The device management default IP address is 192.168.1.1;
3. Open your web browser, type the device IP in address bar;
4. Entry of the user name and password will be prompted. Enter the default login user name /password and check code in the picture.
By default, there are two user levels for management. Administration level user name is "admin", password is "admin". Normal level user name is "useradmin", password is "Zxic5211". The Administration account is able to access and modify all settings of ONU. The normal account can only be used to view configurations, status and configure few parameters.



Figure 3-1: Login

3.2 STATUS

This menu supports to check the device information Network Interface. User Interface.

3.2.1 Device

This part shows the main information of device status and basic settings



Figure 3-2:Device Information

3.2.2 Network Interface

This part shows the main information of WAN IPv4/IPV6 Configuration,PON Inform,PON Alarm.

3.2.2.1 WAN Connection

This part shows the WAN IPv4/IPV6 Configuration.



Figure 3-3:WAN Connection

3.2.2.2 PON Inform

This part shows the main information of PON module(Tx Power/Rx Power) and EPON/GPON register Status.



Figure 3-4:PON Inform

3.2.2.3 PON Alarm

This part shows the PON Alarm information.



Figure 3-5: PON Alarm

3.2.3 User Interface

3.2.3.1 Ethernet

This part shows the WAN IPv4/IPV6 Configuration.

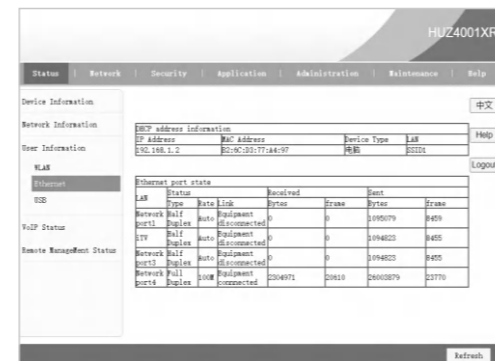


Figure 3-6: Ethernet Interface

3.2.3.2 WLAN interface

This part shows the WLAN Information.

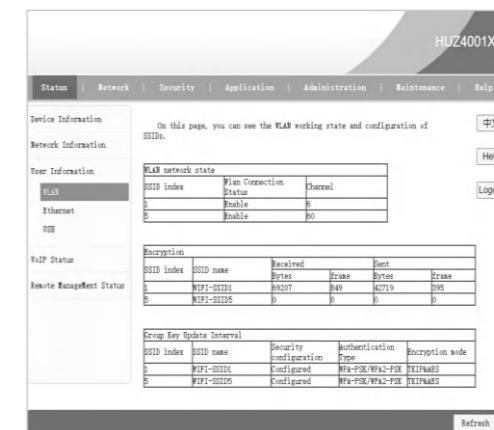


Figure 3-7: WLAN Interface

3.2.3.3 USB interface

This part shows the USB Information.



Figure 3-8: USB Interface

CHAPTER4: TROUBLESHOOTING

- 1. PON light flashes
Possible reason 1: ONU has not completed registration.
Diagnostic method: check whether the ONU is configured as registered.
Possible reason 2: there are long-emitting onu under the same pon interface.
Diagnostic method: unplug other onus under the same pon port in turn, and confirm the long-emitting device.
2. PON light goes out and LOS light flashes
Possible cause 1: The optical fiber line is not connected properly.
Diagnostic method: check whether the optical module, optical fiber line and optical splitter are connected normally.
Possible reason 2: light attenuation is relatively large.
Diagnostic method: use optical power meter to measure, replace the optical fiber, and wipe the optical fiber connection with optical fiber cleaning paper.
3. LAN light is not on
Possible cause 1: Ethernet connection is not established.
Diagnostic method:
1. Check whether the line is plugged in properly and whether the line is normal;
2. Check whether the host network card is normal;
3. If the board hardware fails, the board can be replaced;
4. Check whether the indicator switch is off.
4. When the LAN port is not connected to the network cable, the LAN light is always on
Possible cause 1: The indicator light off switch is in the off state.
Diagnostic method: check the indicator switch status display page or indicator switch on the web page to confirm whether the switch is closed.
5. POTS light does not light up
Possible cause: VOIP telephone service is not registered
Diagnostic method: check whether the distribution service configuration of the network management is enabled, check the voice service configuration content on the administrator page, and check the voice communication on the OLT
Whether the channel configuration is normal.
Possible cause: The indicator light off switch is on
Diagnostic method: check the indicator switch status display page on the web page to confirm whether the switch is on.
6. Wi-Fi and WPS lights are abnormal
Possible cause 1: Wi-Fi switch status is incorrect.
Diagnostic method: check the Wi-Fi switch status on the web interface or platform side.
Possible cause 2: Wi-Fi related hardware failure.
Diagnostic method: replace the board and test.
7. Web page login failure
Possible reason 1: Generally, the user name and password are incorrect.
Diagnostic method: execute the command sidig 1 DB p DevAuthInfo in the serial port to view the user name and password, and log in with the correct user name and password.
Possible reason 2: The web login page timed out.
Diagnostic method: You need to refresh the page and log in again.
Possible reason 3: another user has logged in.
Diagnostic method: restart the ONU or wait for a timeout of 5 minutes.