ZTE EPON SFU Products

1GE/1GE+CATV

User Manual

Version: V1.1

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Co	nclu	uding Remarks E	rror! Bookmark not defined.

1 Note

1.1 Installation Precautions

- Do not near flammable or conductive items, high temperature, direct sunlight or moist environment, or on PC chassis, and check whether other home equipment placed around stability
- Check the cable line. Test and confirm the ac or dc input voltage in the range of allowable, and direct current (dc) correct polarity.
- Unless the manufacturer has given permission, please use the volume and the types of the power supply with Ming products attached adapter
- To prevent lightning damage to the product, make sure that the power outlet and the power adapter ground are securely grounded. In the thunderstorm, be sure to unplug the power and all the connections.
- Equipment shall be less than 10% of the input voltage fluctuations, power plug with a refrigerator, hair dryer, electric iron not use the same socket.
- To avoid any damage to body by power socket overload, or damage to cause electric shock or fire plug, please check the power cord, if found damaged, please change immediately.
- Please place the equipment on the smooth plane and equipment cannot be placed on other items.
- Equipment is easy heat when working, should maintain the appropriate cooling space to avoid damage caused by overheating products. The elongated holes on the housing are designed for heat dissipation. Keep the ventilation clean and prevent the items from falling into the inside of the equipment. Doing so may cause damage or fire to the equipment. Do not spill liquid onto the surface of the equipment.

1.2 Precautions for Use

- Please read the user manual carefully before using the equipment and follow all the precautions on the user manual.
- Do not look straight at fiber which may damage the eyes. Please wear safety glasses to effectively protect your eyes from damage. Wear the fiber cap when fiber no in use.

- Power off the device when it not in use.
- Please make sure the power switch is closed before plug the power supply, to avoid surge. Please be careful when remove the power supply, transformer temperature may be higher.
- For safety, please do not open the shell of equipment, especially equipment power on.
- Unplug the power supply before cleaning equipment. Use a soft dry cloth cleaning equipment, do not use the liquid or spray.
- Do not use this product connected to any electronic products unless got our engineer allow. because any wrong connection may cause electricity or fire danger.

2 Introduce

ZTE EPON SFU series of terminal equipment is based on EPON technology based on the broadband access market, to meet the broadcaster operators broadband access and FTTH, and design passive optical network terminal products that integrate CATV optical receiver and achieve broadband, CATV dual network integration. It is based on mature and stable, cost-effective Gigabit EPON technology and integrate Gigabit Ethernet switching technology, WDM technology and HFC light reception technology, with high reliability, easy management and good quality of service (QoS) and so on. Technical performance of equipment meet the IEEE802.3ah, China Telecom EPON equipment technical requirements (V2.1 / V3.0) and other requirements.

EPON technology is a combination of PON technology and Ethernet technology advantages of emerging technologies, is a point to multi-point networking technology, with high bandwidth, high efficiency, large coverage, rich user interface and many other advantages, is the operator to achieve access network business broadband, integrated transformation of the ideal technology.

ZTE chipset EPON SFU series also integrates powerful routing and forwarding functions by default in the case of SFU (pure data). It is easy to manage and can be flexibly upgraded, expanded, and networked. The equipment has been implemented with EPON central office equipment (Huawei / ZTE / FiberHome / Alcatel-Lucent) OLT) interoperability, composed of Gigabit systems, to meet access needs of the two-in-one video, data services, FTTH / FTTO.

2.1 Product Feature

- Internet, CATV, IPTV service access
- Equipment technical performance meets IEEE802.3ah, China Telecom CTC 2.1 & CTC3.0 standard

- Support bidirectional FEC, supports the RS (255, 239) FEC decoding
- Supports default SFU (pure bridged data) access
- Support PPPoE, DHCP, static IP broadband service access
- Support NAT, static routing, port forwarding
- Support data encryption, VLAN transparent, vlan tag, vlan trunk
- Support up and down traffic limit function
- Supports port loop detection / port link status detection / power dying gasp alarm
- Support OLT remote upgrade / WEB local upgrade function
- Supports broadcast storm suppression
- Support port isolate between different port.
- Support port flow control
- Support managed by different manufacturers OLT work as SNMP-agent. Easy to install and maintain
- Provide a variety of fault alarm function, easy to fault diagnosis
- Support AES-128 decryption, support key generation and switching
- Support DBA technology and priority Dual management model to ensure minimum bandwidth requirements for users
- Support CATV service remote shutdown function
- Working wavelength: 1100 1650nm
- Optical reflection loss:> 45dB
- Input optical power: -18dBm ~ 0dBm

2.2 Environmental Requirements

Operation temperature: -0°C~50°C

Operation humidity: 10%-90%(Non-condensing)

Power adapter input: 12V / 0.5A

Transmitted optical power: 0~4dBm

Input optical power: -3 ~ -27dBm

2.3 Product Interface Definitions





2.4 Product LED Definitions



Indicator			Description
1	PWR Power status		On: The ONU is power on Off: The ONU is Power off
2	LANn	LAN port status	On: Ethernet connection is normal Blinking: Data is being transmitted through theEthernet port Off: Ethernet connection is not set up
3	PON	ONU Register	On: Success to register to OLT Blinking: In process of registering to OLT

			Off: Failed to register to OLT;
4	LOS	GPON optical signals	On: Optical power lower than receiver sensitivity ; Off: Optical in normal
5	CATV	CATV status	On: CATV optical normal Off: The CATV signals are not received

2.5 Device Connection

- Connecting the fiber: Insert the SC fiber connector into the PON connector on the rear panel of the ONU.
- Connect the Ethernet cable: Connect the RJ-45 Ethernet cable to any LAN port of the ONU and the home device, ie, the computer, IPTV set-top box.
- Connecting the coaxial cable: Connect the coaxial cable to the RF connector of the ONU.
- Connect the AC adapter: Plug the AC / DC adapter into the AC wall jack and the ONU 12V DC power jack.

2.6 Network Application

【1GE + CATV ONU networking applications】



3 ONU Local WEB login

3.1 ONU and PC physical Connection

- a) Connect your computer's local network card to the LAN port or ETH port of the ONU via a network cable.
- b) Set the IP address of the computer's local network card to 192.168.101.X (X: 2-254).

Internet Protocol Version 4 (TCP/IPv4) Properties					
General						
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.						
Obtain an IP address automatica	lly					
Ouse the following IP address:						
IP address:	192 . 168 . 101 . 212					
Subnet mask:	255 . 255 . 255 . 0					
Default gateway:	· · ·					
 Obtain DNS server address auto 	matically					
O Use the following DNS server address of the server address of	dresses:					
Preferred DNS server:	· · ·					
Alternate DNS server:	· · ·					
Validate settings upon exit	Advanced					
	OK Cancel					

c) The computer opens the cmd window. To ensure that the computer can ping ONU

management ip address 192.168.101.1

Can Administrator: Command Prompt					
Microsoft Windows [Version 6.1.7601] Copyright (c) 2009 Microsoft Corporation. All rights reserved.					
C:\Users\tcll>ping 192.168.101.1					
Pinging 192.168.101.1 with 32 bytes of data:					
Reply from 192.168.101.1: bytes=32 time=1ms TTL=64					
Reply from 192.168.101.1: bytes=32 time=1ms TTL=64					
Reply from 192.168.101.1: bytes=32 time=1ms TTL=64					
Reply from 192.168.101.1: bytes=32 time=1ms TTL=64					
Ping statistics for 192.168.101.1: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 1ms, Maximum = 1ms, Average = 1ms					
C:\Users\tc11>					

3.2 Computer Access ONU Local WEB

In the case # 3.1 computer can communicate with the ONU, open the computer's <u>Web browser (IE, Firefox, google)</u>, copy and paste the ONU access URL: <u>http://192.168.101.1</u>, pop-up as follows ONU prompt landing page:

① Not secure 192.168.101.1		
	(
	Please login to continue	中文
	Username	
	Password	
	Login	Reset

Enter the ONU super login user: **adminisp** password: **adminisp** Click "**Login**" button, there will be the following ONU main login interface:

Status Network	Security Application Administration Help	
Device Information		
Device Information	Model ONUIGEZITVS	中文
Network Interface	Hardware Version V1 1	Help
liser Interface	Software Version V2.0.4-X000	Troip
	Boot Loader Version V2.0.4-X000	Logout
Remote ManageMent Status	PON MAC e0:67:b3:31:36:6d	
CATV		

After entering the main interface of the ONU, the ONU can be set up further. For details, see the following setup guide.

4 ONU Registration Information Configuration

4.1 ONU Registration Status View

web login ONU select the **Status ->Network interface -> PON inform**, you can check whether the ONU registered successfully:

Status Network	5	ecurity Application Administration Help	
Device Information Network Interface 2 WAN Connection 2 PON Inform 2 Vor Alarm 2 User Interface 2 Remote ManageMent Status 2 CATV 2	3	EPON StateRegistered and certifiedOAM_LinkEstablished 4Optical Module Input Power(dBm)-27.0Optical Module Output Power(dBm)2.0Optical Module Supply Voltage(uV)3282000Optical Transmitter Bias Current(uA)15350Operating Temperature of the Optical Module(°C)28	中文 Help Logout
			Refresh

4.2 ONU Optical Power Information View

web login ONU select the **Status -> Network interface -> PON inform,** you can view the ONU input and output optical power information:

Status Network	S	ecurity Application A	dministration Help	
Device Information				
		EPON State	Registered and certified	中文
Network Interface 2		OAM_Link	Established	
WAN Connection	[Optical Module Input Power(dBm)	-27.0	Help
PON Inform	3	Optical Module Output Power(dBm)	2.0	Logout
PON Alarm		Optical Module Supply Voltage(uV)	3282000	
User Interface		Optical Transmitter Bias Current(uA)	15350 4	
Remote ManageMent Status		Operating Temperature of the Optical Module(°C)	28	
CATV				
				Refresh

4.3 ONU Registration LOID Configuration

The LOID of the ONU is mainly applicable to the authentication mode of LOID and LOID + Password. General EPON ONU authentication method is MAC address, and rarely use the LOID authentication mode, so normal circumstances do not need to configure the LOID. The LOID of the ONU is configured as follows:

ONU LOID and password: Application | Administration Network 1 WAN 中文 LAN LOID test 2 Password test PON Help LOID 4 Logout SN Routing(IPv4) Port Configuration TR-069 5

1.web login ONU select the **Network -> PON -> LOID**, you can set and view the ONU LOID and password:

2.After completing the LOID and password settings, you can click the **"Submit"** button below to complete the setup.

Submit

Cancel

5 Internet Basic Configuration

ZTE ONU series of products support route function, Internet can work by route mode or bridge mode, the difference between the two modes are as follows:

Routing mode Broadband Internet access: ONU as a home gateway equipment, ONU on route mode can obtained IP address in three ways: **DHCP**, **static IP** and **PPPoE**. The IP address of the user terminal device (PC, etc.) obtained by the ONU own DHCP address pool or manually set the static IP address the same as DHCP address pool.

Bridging mode broadband Internet access: ONU itself will not get the IP address assigned by the upper device, or can not manually set the static IP address, then ONU as a relay device. The IP address of the user device (PC) connecting the

ONU LAN port obtained by the OLT upper layer server. The PC is connected to the Internet through DHCP, PPPoE, and static ip address.

5.1 Routing mode broadband Internet settings

5.1.1 PPPoE broadband Internet access in routing mode

1. web login ONU and select **Network -> WAN -> WAN Connection**, and then set the following parameters:

[Connection name] Select "Create WAN Connection".

[New Connection name] According to own convenience to specify.

- [Enable VIan] This one can be set according to the network planning situation, if the network planning Internet vlan, this one need to check the "Enable vlan"; If the network is not planning Internet vlan, this one does not need to check, then ONU is vlan transparent mode.
- [Vlan ID] The same as "Enable Vlan", Setting depending on the network vlan planning.
- [802.1p] Set the priority of vlan, The same as "enable Vlan", depending on the network vlan planning to configure. The default priority is 0.
- 【Type】 select "Route".
- [Service List] Select internet. route mode access internet are generally select internet.
- [MTU] The default is 1492 does not need to modify; if you meet can ping DNS but the web browser can not access the site. Modify MTU smaller, such as: 1400.

[Link Type] Select "PPPoE".

[Username] Enter the PPPoE Internet PPPoE account provided by the network operator.

[Password] Enter the PPPoE password provided by the network operator.

[Authentication Type] Select "Auto".

[IP Version] The default is "Ipv4". ONU itself does not support IPV6.

[Enable NAT] Check the "Enable NAT" function; NAT function is mainly used for internal network and external network communication address translation function, the default is checked enabled state, if not check the network ONU not get the network.

Note: ZTE solution ONU series of products is no port binding function, because the ONU is SFU (pure data)+ Routing, the ONU either works in SFU mode, or is working in routing mode.

Status Network	Security Application Administration Help	
wan 2		
WAN Connection	Connection Name Create WAN Conne ▼ 4	中文
LAN	Enable VLAN	Help
	VLAN ID 100	nop
PON	802.1p 0 V	Logout
Routing(IPv4)	Type Route 🔻	
Port Configuration	Service List INTERNET	
TR-069	MTU 1492	
		1
	Username test	
	Password	
	Authentication Type Auto	
	Connection migger Aways on	
	IP Version IPv4 V	
	PPP TransType PPPoE V	
	IPv4 S	
]
		5
		Cancel

2. After the above configuration, click **"create**" button to complete the PPPoE broadband Internet access settings.

5.1.2 DHCP broadband Internet access in routing mode

1. web login ONU and select Network -> WAN -> WAN Connection, and then set

the following parameters:

[Connection name] Select "Create WAN Connection".

[New Connection name] According to own convenience to specify.

- [Enable Vlan] This one can be set according to the network planning situation, if the network planning Internet vlan, this one need to check the "Enable vlan"; If the network is not planning Internet vlan, this one does not need to check, then ONU is vlan transparent mode.
- [Vlan ID] The same as "Enable Vlan", Setting depending on the network vlan planning.
- [802.1p] Set the priority of vlan, The same as "enable Vlan", depending on the network vlan planning to configure. The default priority is 0.

【Type】 Select "Route".

- [Service List] Select internet. route mode access internet are generally select internet.
- [MTU] The default is 1492 does not need to modify; if you meet can ping DNS but the web browser can not access the site. Modify MTU smaller, such as: 1400.
- [Link Type] Select "IP".
- [IP Version] The default is "Ipv4". ONU itself does not support IPV6.

【IP Type】 Select "DHCP".

[Enable NAT] Check the "Enable NAT" function; NAT function is mainly used for internal network and external network communication address translation function, the default is checked enabled state, if not check the network ONU not get the network.

Note: ZTE solution ONU series of products is no port binding function, because

the ONU is SFU (pure data)+ Routing, the ONU either works in SFU mode, or is working in routing mode.

Status Network	Security Application Administration Help		
WAN 2	Connection Name Create WAN Conne 4 New Connection Name 124		中文
LAN	Enable VLAN 🗹		Help
PON	VLAN ID 200		Logout
Routing(IPv4)	Type Route		
Port Configuration	Service List INTERNET		
TR-069	MTU 1500		
	Link Type IP 🔻		
	IP Version IPv4		
	IP Type DHCP 🔻		
	IPv4 Enable NAT 闭		
		5	
		Create	Cancel

2.After the above configuration, click "create" button to complete the DHCP broadband Internet access settings.

5.1.3 Static IP Broadband Internet Access In Routing Mode

1.web login ONU and select **Network -> WAN -> WAN Connection**, and then set the following parameters:

[Connection name] Select "Create WAN Connection".

[New Connection name] According to own convenience to specify.

- [Enable VIan] This one can be set according to the network planning situation, if the network planning Internet vlan, this one need to check the "Enable vlan"; If the network is not planning Internet vlan, this one does not need to check, then ONU is vlan transparent mode.
- [Vlan ID] The same as "Enable Vlan", Setting depending on the network vlan planning.

[802.1p] Set the priority of vlan, The same as "enable Vlan", depending on the

network vlan planning to configure. The default priority is 0.

【Type】 Select "Route".

- [Service List] Select internet. route mode access internet are generally select internet.
- [MTU] The default is 1492 does not need to modify; if you meet can ping DNS but the web browser can not access the site. Modify MTU smaller, such as: 1400.
- [Link Type] Select "IP".
- [IP Version] The default is "Ipv4". ONU itself does not support IPV6.
- 【IP Type】 Select "static".
- [Enable NAT] Check the "Enable NAT" function; NAT function is mainly used for internal network and external network communication address translation function, the default is checked enabled state, if not check the network ONU not get the network.
- 【Ip Address】 Static ip address access Internet.
- [Subnet Mask] Subnet Mask of Static ip address.
- [Gateway] The default gateway for static ip address Internet access.
- [DNS Server1 IP Address/DNS Server2 IP Address/DNS Server3 IP Address] The first DNS, the second DNS and the third DNS for for static ip address Internet access.

Note: ZTE solution ONU series of products is no port binding function, because the ONU is SFU (pure data)+ Routing, the ONU either works in SFU mode, or is working in routing mode.

Status Network	Security Applie	ation Administration Hel	P
WAN 2			
WAN Connection	Connection Name	Create WAN Conne 4	中文
	3 New Connection Name	125	
LAN	Enable VLAN	•	Help
PON	VLAN ID	200	Logaut
Pouting(IPv4)	802.1p	•	Logour
Kouting(IFV4)	Туре	Route 🔻	
Port Configuration	Service List	INTERNET •	
TR-069	MTU	1500	
	Link Type	IP 🔻	
	IP Version	IPv4 V	
	ІР Туре	Static 🔻	
	IPv4 Senable NAT		7
	IP Address	100.22.90.100	
	Subnet Mask	255.255.255.0	
	Gateway	100.22.90.254	
	DNS Server1 IP Address	8.8.8.8	
	DNS Server2 IP Address	4.4.4.4	
	DNS Server3 IP Address	202.96.134.133	
		_	5
			Create Cancel

2.After the above configuration, click **"create**" button to complete the Static IP broadband Internet access settings.

5.2 Broadband Internet Access In Bridge Mode

ZTE solution ONU series products factory default mode in the bridge (pure data SFU), ONU bridge mode Internet does not need to do any configuration in the web interface. Just configure the correct ONU port vlan (eg access, trunk, transparent) in the OLT

Note: If ONU was in route mode for Internet. Please disable ONU's DHCP function if need change to bridge mode. It is best to delete route WAN configuration.

5.3 View Broadband WAN Status

web login ONU and select the **status** -> **Network interface** -> **WAN Connection**, you can see the status of the WAN connection in the routing mode, check whether the routing WAN has the correct IP address, and whether the bridge WAN status is "UP"



5.4 Delete Internet WAN Connection

web login ONU and select the **Network -> WAN -> WAN Connection**, select a WAN connection in the **"Connection Name"**, and then click the **"Delete"** button at the bottom of the page to complete the deletion:

	and the second		
Status Network	Security Application Administration Help		
WAN 2 WAN Connection LAN PON Routing(IPv4)	3 Connection Name 123 ▼ 4 New Connection Name 123 ↓ Enable VLAN ✓ VLAN ID 100 ↓ S02.1p 0 ▼ Type Route ▼		中文 Help Logout
Port Configuration	Service List INTERNET		
TR-069	Link Type PPP T		
	PPP S Username test Password •••••• Authentication Type Auto Connection Trigger Always On		
	IP Version IPv4 V		
	PPP TransType PPPoE IPv4 Enable NAT		5
		Modify	Delete

6 ONU LAN configuration

The LAN side configuration of the ZTE solution ONU is mainly for terminal device when ONU in route mode.

6.1 LAN IP Address Configuration

1.web login ONU and select the **Network** -> **LAN** -> **DHCP Server**, And then set the following parameters:

[LAN IP Address] Set the local management IP address of the ONU. The default is 192.168.101.1

[Subnet Mask] Set the subnet mask corresponding to the local management IP address of the ONU.

[Enable DHCP Server] Enable or disable the DHCP server function on the ONU.

- 【DHCP Start IP Address/DHCP End IP Address】 The IP address interval allocated to the terminal. The address interval must be on the same network segment as the management IP address of the ONU.
- [Assign IspDNS] Enable or Disable the ONU to allocate the upper ISP's DNS to the terminal.
- [DNS Server1 IP Address/DNS Server2 IP Address/DNS Server3 IP Address] The DNS address to be assigned to the terminal, in default ONU use itself ip 192.168.101.1 work as DNS proxy address, can enter according to network planning

[Default Gateway] The default gateway address assigned to the terminal

Status Networ	k Security Application Administration Help		
WAN	1		
LAN 2	NOTE: 1. The DHCP Start IP Address and DHCP End IP address should be in the same subnet as the LAN IP.		中文
DHCP Server	3		Help
PON	Subnet Mask 255.255.0		
Routing(IPv4)			Logout
Port Configuration	Enable DHCP Server 🗹 🛛		
Port Configuration	DHCP Start IP Address 192.168.101.2		
TR-069	DHCP End IP Address 192.168.101.254		
	Assign IspDNS 🔲		
	DNS Server1 IP Address 192.168.101.1		
	DNS Server2 IP Address		
	DNS Server3 IP Address		
	Default Gateway 192.168.101.1		
	Lease Time 86400 sec		
	Allocated Address MAC Address IP Address Remaining Lease Time Host Name Port		
	There is no data.	5	
	L]	
		Submit	Cancel
		Submit	Cancel

2.After the above configuration, click "Submit" button to complete the LAN ip settings:

7 Multicast / IPTV Service Basic Settings

ZTE solution ONU multicast / IPTV service settings are mainly through the OLT to configure, including multicast vlan, snooping configuration can be configured through the OLT. The specific configuration can refer to each manufacturer's OLT to configure.

8 CATV Management

CATV management is mainly applied to ONU products with optical machine, you need to configure the optical machine parameters in ONU web.

ZTE solution GPON 4FE + CATV ONU temporarily does not support CATV control function.

8.1 CATV Parameter Configuration

web login ONU and select the Administration -> CATV Management -> CATV Config, In this page you can turn CTAV on and off and configure some parameters for CATV:

			- /				
Status Network	k ∣ Security	Applicatio	n Admin	istration	Help		
User Management					1		
		VccDead	2	(0~50 U	nit: 0.1V)		中文
Login Timeout		VccLow	108	(0~200)	Unit: 0.1V)		
System Management		VccHigh	132	(0~200	Unit: 0.1V)		Help
		TempDead	50	(0~50 U	nit: 0.1C)		
Diagnosis		TempLow	-100	(-300~1	000 Unit: 0	.1C)	Logout
Loopback Detection		TempHigh	900	(-300~1	000 Unit: 0	.1C)	
Led Control		RF Dead	12	(0~50 U	nit: 0.1dBu	V)	
		RF Low	500	(500~10	00 Unit: 0.:	1dBuV)	
CATV Management		RF High	950	(500~10	00 Unit: 0.:	1dBuV)	
CATV Config	3	InOptPwrDead	9	(0~50 U	nit: 0.1dBm)	
	5	InOptPwrLow	-180	(-600~1	00 Unit: 0.1	LdBm)	
		InOptPwrHigh	D	(-600~1	00 Unit: 0.1	ldBm)	
		Channels	59	(0~100)			
		Enable CATV:	•				
		[Restore Default				
						4	
						Submit	Cancel

8.2 CATV Information View

web login ONU and select the Status -> CATV -> CATV Status. In this page you

Status Network	1	Security	Application	Ad	ministration	1	Help	
		Security	Application	Ad			пер	
Device Information		CATV Info						
Network Interface				Vcc	121 (0.1V)			中文
Lines Taba da as			Tempe	rature	-2731 (0.1C)			Help
			RF Output	Power	483 (0.1dBuV)			
Remote ManageMent Status			InOptical	Power	-347 (0.1dBm)			Logout
CATV 2			VccAlarm	State	Normal			
CATV Status	-		TempAlarm	State	Low Low			
	3		RF Alarm	State	Low Low			
			InPwrAlarm	State	Low Low			
			Vo	cDead	2 (0.1V)			
			v	ccLow	108 (0.1V)			
			Ve	:cHigh	132 (0.1V)			
			Tem	pDead	50 (0.1C)			
			Ten	npLow	-100 (0.1C)			
			Tem	pHigh	900 (0.1C)			
			RF	Dead	12 (0.1dBuV)			
			R	F Low	600 (0.1dBuV)			
			RI	F High	950 (0.1dBuV)			
			InOptPw	rDead	9 (0.1dBm)			
			InOptP	wrLow	-180 (0.1dBm)			
			InOptPv	/rHigh	0 (0.1dBm)			
			Cha	annels	59			
			AgcLov	VLimit	-120 (0.1dBm)			
			AgcHig	hLimit	-20 (0.1dBm)			
				OnOff	on			
								Refresh

can view the CATV switch status and optical parameters:

9 ONU Device Management

9.1 ONU Device Remote Access Settings

web login ONU and select the Security -> Service Control -> Service Control.

In this page you can set the ONU telnet remote access and WEB remote access:

		and the second second			
Status Network	Security	Application	Administration	Help	
Firewall Service Control 2 Service Control MAC Filter 3	1 Star Enable Ingress WAN Not	IP Version Enable Ingress t Source IP Address d Source IP Address Mode Service List 5 Start Source IP Address te: If you need to con ports, please clic Modify Remote Ad	IPv4 ▼ ✓ 124 Permit ▼ ✓ HTTP ✓ TELNET Modify Cancel ind Source IP Mode Address Permit figure the above remot k on the hyperlinks belo ccess Port	▼ 4 Service ModifyDelete List HTTP,TEL 2 11 e access ww.	中文 Help Logout

9.2 Restore Default

web login ONU and select the Administration -> System Management -> System Management. Click the "Restore Default" button to restore the ONU factory settings:

	and the second	
Status Network	Security Application Administration Help	
User Management Login Timeout System Management 2 System Management	Click this button to reboot the device. Reboot Click this button to restore the configuration to factory default Click this button to restore the configuration to factory default	中文 Help Logout
User Configuration Management	Restore Default	
Diagnosis		
Loopback Detection		
Led Control		
CATV Management		

9.3 Software Upgrade

web login ONU and select the Administration -> System Management -> Software Upgrade. Click the "Choose File" button to select an upgrade file, and then click the "Upgrade" button to upgrade:

Note: ONU upgrade will automatically restart, do not need to manually restart the ONU, upgrade time is about 3 minutes.

Status Network	Security Application Administration Help	
User Management Login Timeout System Management Software Upgrade User Configuration Management	1 The device will reboot after upgrading. Please select a new software/firmware image Choose File No file chosen 4 Upgrade 5	中文 Help Logout
Diagnosis Loopback Detection Led Control CATV Management		

9.4 Reboot Device

web login ONU and select the Administration -> System Management -> System Management. Click the "Reboot" button to restart the ONU device:

