

# Wodaplug R\_XPON SFU Products

# 4GE/4GE+CATV/1GE+3FE/1GE+3FE+CATV

# **User Manual**

# Version: V1.1



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# 1 Note

## 1.1 Installation Precautions

• Do not place the equipment near flammable or conductive items, high temperatures (such as direct sunlight) or in wet conditions, or on a PC chassis, and check that the surrounding appliances are stable.

• Check the cable for aging. Check and verify that the AC or DC input voltage is within the permissible range of the device and that the polarity of the DC is correct.

• Unless the manufacturer permit, use the type of power indicated on the label and the adapter supplied with the product.

• To prevent damage to the product from lightning, make sure that the ground of the power outlet and the power adapter is securely grounded. In the thunderstorm, be sure to unplug the power and all the connections.

• Equipment input voltage fluctuation should be less than 10%, the power plug,

refrigerators, hair dryer and iron should not use the same socket.

• To avoid electric shock or fire due to overload of the power outlet, damage to the cord or damage to the plug, check the power cord regularly. If damage is found, replace it immediately.

• Please place the device on a flat surface and can not place items on the device.

• Equipment is easy to produce heat when working, should maintain the appropriate cooling space to avoid damage caused by overheating products. The elongated hole on the shell is designed for heat dissipation. Keep the ventilation clean and avoid falling from the heat sink into the equipment. Otherwise, the equipment may be damaged or fire. 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 and the product.

• Avoid eye looked at the optical interface directly, so as to avoid the laser beam emitted by the interface damage the eyes. Please try to wear safety glasses to effectively protect your eyes from damage. It is best to plug in the fiber optic interface jacket when the optical interface is not in use .

• Turn off the power when the device is not in use

**ODa**pu

• Before plugging the power supply, make sure that the power switch is turned off to avoid surge. Be careful when unplugging the power supply and the transformer temperature may be high.

• To ensure safety, do not open the enclosure of the device, especially when the device is powered up.

• Unplug the power supply before cleaning the equipment. Use a soft dry cloth to clean the equipment to avoid the use of liquids or sprays.

• Do not connect this product to any electronic product unless it is instructed by our customer engineer or your broadband supplier, as any incorrect connection may cause power or fire hazard.

# 2 Brief

Realtek new solution XPON SFU is GPON/EPON adaptive terminal products to meet the telecom, radio and television FTTH fiber to the home multi-service access. The products based on mature and stable, cost-effective Gigabit GPON and EPON technology, integrate Gigabit and Fast Ethernet switching technology, HFC technology. With high bandwidth, high reliability, easy management and good quality of service (QoS) guarantee, the technical performance of the equipment meets the requirements of ITU G.984 and IEEE802.3ah equipment technical requirements.

Realtek new solution XPON SFU series terminals are available with 1-4 10M / 100M / 1000M adaptive ports, and the device has been interconnected with the GPON or EPON OLT of the industry's leading communications vendors (Huawei / ZTE / FiberHome / Alcatel-Lucent), composed of gigabit systems, to meet the two-in-one video, data services of FTTH / FTTO access needs.

Note: This manual is written in the form of 4GE+CATV XPON ONU, and other models ONU can also be referenced.

#### **2.1 Product Feature**

- Support both GPON and EPON mode adaptation
- Single-fiber access, providing broadband, CATV, IPTV service access, and so on.
- Meet GPON ITU-T G.984 and EPON IEEE802.3ah standard
- Support GPON uplink bandwidth 1.25G, downlink bandwidth 2.5G standard
- Support EPON uplink and downlink bandwidth 1.25G



- Support VLAN Transparent, Tag, Trunk, Translation, QinQ function
- Support up and down bandwidth limit function
- Support port loop detection / port link status detection
- Support upgrade through the OLT remote / local ONU WEB
- Support broadcast storm suppression
- Different data ports are isolated from each other
- Support port flow control
- Support multiple multicast forwarding mode: igmp snooping, igmp proxy
- Support OLT as SNMP-agent way of the unified management of the network management, 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 based on the dual management model to ensure that the user's minimum specified bandwidth requirements
- QoS guarantee for different priority services through SLA constraint, Policing, queue management scheduling / congestion avoidance, discard management
- Supports entry-based traffic control, we can select Pause frame to limit.
- Support HQoS Function
- Support CATV service remote shutdown function
- Operating wavelength: 1100 1600nm

#### 2.2 Product Specification

Ambient temperature: 0°C~40°C Relative humidity: 10% to 90% (non-condensing) Power adapter input: 12 V/1A TX Optical Power: 0.5~5dBm RX Opitcal Power: -8~-28dBm

#### 2.3 **Product Operation Introduction**

The dual-mode ONU is a "combination" of GPON and EPON ONU. Compared with the single-mode EPON/GPON ONU, the main difference lies in the registration process. The dual-mode ONU adds a prejudgment to the current application system (EPON/GPON). That is, the dual-mode ONU first switches mode, and then starts and completes registration process in the corresponding mode. When the ONU runs normally in the current system, its configuration and processing of various messages are basically the same as single-mode EPON/GPON ONU.

This product mode switch depends on the packet sent by the front-end OLT device to the ONU. When ONU receives the packet sent by the EPON OLT, the ONU automatically switches to the EPON mode after detecting it. In this case, the ONU can be regarded as the EPON ONU.



When the ONU receives the packet sent by the GPON OLT, the ONU automatically switches to the GPON mode after detecting it. In this case, the ONU can be used as the GPON ONU.



# **2.4** Device Interface Definition

Indicator		Indicator	Description
			On: Ethernet connection is normal;
1	TANI 4	LAN Port status	Blinking: Data is being transmitted through
	LAN1-4		the Ethernet port;
			Off: Ethernet connection is not set up;
			On: Optical power lower than receiver
2	2 LOS XPON optical signals		sensitivity;
			Off: Optical in normal
			On: Success to register to OLT
3	PON	ONU Register	Blinking: In process of registering to OLT;
			Off: In process of registering to OLT;
4	CATU		On: CATV optical normal
4	CAIV	CAT V status	Off: The CATV signals are not received
5	DWD	Dessent status	On: The ONU is power on;
3	PWK	Power status	Off: The ONU is Power off;



#### **2.5** Device Connection

- Connect 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 and each home device, that is, the computer, IPTV set-top box, and so on.
- Connect 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 Applications



### 2.7 ONU Instructions

Realtek XPON SFU ONU is mainly work in the bridge mode, all the configuration of ONU (ONU port vlan, ONU port speed limit, etc.) are basically configured through the OLT, but also through the OLT and EMS network management to manage, It does not need to be configured on the ONU's local WEB. The configuration manual is to guide customers to do some basic view and configuration operation for Realtek XPON SFU ONU. Other configurations of the ONU can be configured according to each manufacturer's OLT configuration manual.

# **3** Login Web Management Locally

#### **3.1** Physical Connection of ONU and PC

a) Local NIC of PC connects to LAN port or ETH port of ONU via wires.



b) Set the IP address of PC's local NIC as 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 automatical	ly					
• Use the following IP address:						
IP address:	192 . 168 . 101 . 20					
Subnet mask:	255.255.255.0					
Default gateway:	· · ·					
<ul> <li>Obtain DNS server address autor</li> </ul>	matically					
O Use the following DNS server add	dresses:					
Preferred DNS server:	· · ·					
Alternate DNS server:	· · ·					
🔲 Validate settings upon exit	Advanced					
	OK Cancel					

c) Open cmd windows and make sure that PC can ping the management IP (192.168.101.1) of ONU.

Administrator: C:\Windows\system32\cmd.exe	- • •
Microsoft Windows [Version 6.1.7601]	<u>^</u>
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=2ms 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 = 2ms, Average = 1ms	
C:\lloove\tell\	
c. users (c11/	
	~

### **3.2** PC Access the WEB of ONU

Make sure you can ping the ONU like #3.1. Open the **IE Web broswer (IE, Firefox, Google)**, copy and paste URL: <u>http://192.168.101.1</u>, the following pop-up Prompt landin-g page:



Please login to continue English <b>•</b>		
Username	adminisp	
Password	•••••	
Login	Reset	

Input UserName: adminisp Password: adminisp

Click "Login" button. The product basics page appears, as follows:

This page shows the current status	and some basic settings of the device.
System	
Device Name	4GE1AGCCATV
Uptime	2hours 57mins
Model ID	IGD
Software Version	V1.0.9_X000
Hardware Version	V1.0.1
Serial Number	RTKG1111111
Build Info	Build.1751.200224
CPU Usage	22%
Memory Usage	7%
Connection Status	
LAN Configuration	
IP Address	192.168.10.1
Subnet Mask	255.255.255.0
MAC Address	E067B3007171

You can start further configuration.

# 4 View ONU System Status



## 4.1 View ONU Device Information

Login ONU WEB. Click Status → Device, we can view the Device Name, Uptime, Model ID, Software Version, Hardware Version, Build Information, IP Address, MAC Address and so on.

This page shows the current status	and some basic settings of the device.
System	
Device Name	4GE1AGCCATV
Uptime	2hours 58mins
Model ID	IGD
Software Version	V1.0.9_X000
Hardware Version	V1.0.1
Serial Number	RTKG11111111
Build Info	Build.1751.200224
CPU Usage	0%
Memory Usage	7%
Connection Status	
LAN Configuration	
IP Address	192.168.10.1
Subnet Mask	255.255.255.0
MAC Address	E067B3007171

# 4.2 View ONU PON Status(When adaptive to GPON mode)

Login ONU WEB. Click Status  $\rightarrow$  PON, we can view the Register Status, Rx Power and Tx Power and so on.

te contents: Status Device IPv6 PON	PON Status This page shows the current sys	tem status of PON.	
CATV	PON Status		
LAN Info	Temperature	33.210938 C	
Advance Diagnostico	Voltage	3.282100 V	
Admin	Tx Power	2.405752 dBm	
Statistics	Rx Power	-25.086383 dBm	
	Bias Current	10.200000 mA	
	GPON Status		
	ONU State	05	
	ONU ID	0	
	LOID Status	Initial Status	



# 4.3 View ONU PON Status(When adaptive to EPON mode)

Login ONU WEB. Click Status **>** PON, we can view the Register Status, Rx Power and

Tx Power and so on.

Site contents:	PON Status	stem status of PON.	
	PON Status		
Port VLAN Info	Temperature	32.871094 C	
LAN	Voltage	3.282100 V	
Diagnostics	Tx Power	2.374945 dBm	
Admin Statistics	Rx Power	-3.242217 dBm	
<u>Statistics</u>	Bias Current	10.050000 mA	
	EPON LLID Status		
	Status	Up	
	Refresh		

# 4.4 View ONU CATV Status Information

Login ONU WEB. Click Status  $\rightarrow$  CATV, we can view the CATV information.

Site contents: Status Device PON CATV Status This page shows the current CATV Status	system status of CATV.
LAN Info	0.0 V
Advance Temperature	486.4 °C
Admin RfOutputPower	108.0 dBuV
InOpticalPower	0.0 dBm
VccAlarmState	
TempAlarm State	
RfAlarm State	
InpwrAlarmState	
VccDead	0.0 V
VccLow	0.0 V
VccHigh	0.0 V
TempDead	0.0 °C
TempLow	76.8 °C
TempHigh	76.8 °C
RfDead	0.0 dBuV
RfLow	76.8 dBuV



RfHigh	76.8 dBuV
InOptPwrDead	0.0 dBm
InOptPwrLow	0.0 dBm
InOptPwrHigh	0.0 dBm
Channel	0
AgcLowLimit	0.0 dBm
AgcHighLimit	0.0 dBm
CATV Status	on
Refresh	

# 4.5 View ONU LAN Port Information

Login ONU WEB. Click Status > LAN Info, we can view onu each port status information.

Site contents: Status Device IPv6 PON	LAN Status This page shows the current system	m status of LAN.		
	LAN LinkStatus			
LAN INTO	LAN-1	LAN-2	LAN-3	LAN-4
Advance Diagnostics	Up	Down	Down	Down
Admin Statistics	Refresh			

# 5 Configure LAN IP Address of ONU

Login ONU WEB. Click LAN, we can change IP address and subnet mask of local management.

Site contents: Status LAN Signature	LAN Interface Settings This page is used to configure the LAN interface of your Device. Here you may change the setting for IP addresses, subnet mask, v		
Admin	InterfaceName:	br0	
Statistics	IP Address:	192.168.10.1	
	Subnet Mask:	255.255.255.0	
	Apply Changes		

6 View ONU LAN Side User Information



Login ONU WEB. Click Advance  $\rightarrow$  ARP Table, we can view the IP Address and MAC Address of every user that connect to the lan port of ONU.

Site contents:	User List This table shows a list of learned MAC addresses.			
ARP Table	IP Address	MAC Address		
Diagnostics Admin	192.168.10.93	54-e1-ad-10-5b-31		
Testistics	Refresh			

# 7 ONU Diagnostic

# 7.1 Ping Diagnostic

Ping diagnostic of Realtek SFU ONU is mainly used to test connectivity between ONU and client devices

Login ONU WEB. Click **Diagnostics**  $\rightarrow$  **Ping**, type terminal IP address that connect to the ONU lan port, and click '**GO**' button to test the connectivity

Site contents: <u>Status</u> LAN	Ping Diagnostics
	This page is used to send ICMP ECHO_REQUEST packets to network host. The diagnostic result will then be displayed.
Ping	Host Address: 192.168.101.125 1
Admin Statistics	WAN Interface: Any 🔻
	G0 Z
Site contents:	PING 192 168 101 125 (192 168 101 125): 56 data bytes
Status	Find 192.106.101.125 (192.106.101.125). 50 data bytes
Advance	64 bytes from 192.168.101.125 icmp_seq=0
	64 bytes from 192.168.101.125: icmp_seq=1
Ping	64 bytes from 192.168.101.125: icmp_seq=2
Admin	ping statistics
Statistics	3 packets transmitted 3 packets received.
	Back

# 7.2 ONU Loop Diagnostic

Login ONU WEB. Click **Diagnostics**  $\rightarrow$  Loop Detect, we can enable or disable loop detect function of ONU.



**Note:** Configured the loop detect function, we have to pay attention to configuration of this function that configured via OLT. Some kinds of OLT will disable loop detect function by default.

Site contents:  Status LAN Advance Diagnostics Ping Bi Loop Detect	loop detection			
	✓Loop detection enable			
<u>Admin</u> Statistics	Port Loopdetect Status			
	LAN-1	LAN-2	LAN-3	LAN-4
	forwarding	forwarding	forwarding	forwarding
	Apply Changes Refresh			

# 8 ONU System Management

# 8.1 Register LOID of ONU Config(When adaptive to GPON mode)

The LOID of ONU is mainly used for the authentication of LOID and LOID+Password from OLT. By default, GPON ONU register to the OLT by SN but less LOID so that we needn't configure the LOID. But the way to configure the LOID is as below

Login ONU WEB. Click Admin  $\rightarrow$  GPON Settings, we can configure the LOID and LOID password, and click 'Apply Changes' button to finish the settings.

Ŧ Site contents:		
<u>Status</u>	GPON Settings	
	-	
Advance	This page is used to configure the parameters for you	ur GPON network access.
Diagnostics		
Admin	LOID:	user
GPON Settings		
CATV Settings	LOID Password:	password
Port Isolation Settings	DL CAM Dassword:	1224567900
OMCL Information	PLOAM Password.	1234307890
Commit/Reboot	Serial Number:	RTKG11111111
Multi-language Settin		
Backup/Restore	OMCI OLI Mode:	Default Mode
Account Configuration		
Firmware Upgrade	Apply Changes	
🖳 📑 Time Zone		
Logout		
Statistics		

### 8.2 Register LOID of ONU Config(When adaptive to EPON mode)

The LOID of ONU is mainly used for the authentication of LOID and LOID+Password from OLT. By default, EPON ONU register to the OLT by MAC address but less LOID so that we needn't configure the LOID. But the way to configure the LOID is as below



Login ONU WEB. Click Admin  $\rightarrow$  EPON Settings, we can configure the LOID and LOID

password	, and	click	<b>`Apply</b>	Changes'	button to	finish	the settings.	

Sito contonts:		
Status	EPON Sottings	
	LFON Settings	
Advance	This page is used to configure the p	arameters for your EPON network access
Diagnostics		
Admin	LOID:	USPE
EPON Settings	20101	
CATV Settings	LOID Password:	password
Port Isolation Settings		
OLT Adapt Settings	Apply Changes	
Commit/Reboot	Apply changes	
Multi-language Settin		
Backup/Restore		
Account Configuration		
Firmware Upgrade		

# 8.3 CATV Settings

Login ONU WEB. Click Admin → CATV Settings, we can enable or diable CATV port and configure other parameters of CATV, and click 'Apply Changes' button to finish the settings.

<ul> <li>Site contents:</li> <li>Status</li> <li>LAN</li> <li>Advance</li> <li>Diagnostics</li> </ul>	CATV Settings This page is used to configure the CATV			
<del>-</del>	CATV Status			
CATV Settings	Vcc	0.0 V		
OLT Adapt Settings	Temperature	486.4 °C		
OMCI Information	RfOutputPower	108.0 dBuV		
Multi-language Settin	InOpticalPower	0.0 dBm		
Backup/Restore	VccAlarmState			
Firmware Upgrade	TempAlarm State			
Time Zone	RfAlarm State			
<u>Statistics</u>	InpwrAlarm State			
	VccDead(0.0 ~ 5.0)	0.0 V		
	VccLow(0.0 ~ 20.0)	0.0 V		
	VccHigh(0.0 ~ 20.0)	0.0 V		
	TempDead(0.0 ~ 5.0)	0.0 °C		
	TempLow(-30.0 ~ 100.0)	76.8 °C		
	TempHigh(-30.0 ~ 100.0)	76.8 °C		
	RfDead(0.0 ~ 5.0)	0.0 dBuV		



<ul> <li>Backup/Restore</li> <li>Account Configuration</li> <li>Firmware Upgrade</li> <li>Time Zone</li> <li>Logout</li> <li>Statistics</li> </ul>	RfLow(50.0 ~ 100.0)	76.8 dBuV
	RfHigh(50.0 ~ 100.0)	76.8 dBuV
	InOptPwrDead(0.0 ~ 5.0)	0.0 dBm
	InOptPwrLow(-60.0 ~ 10.0)	0.0 dBm
	InOptPwrHigh(-60.0 ~ 10.0)	0.0 dBm
	Channel(0 ~ 100)	0
	AgcLowLimit	0.0 dBm
	AgcHighLimit	0.0 dBm
	CATV Status	on
	Enable CATV	
	Apply Changes Restore Default	

### 8.4 Port Isolation Settings

ONU ports isolation is mainly used to the terminal that connect to the ONU can communicate with each other or not.

Login ONU WEB. Click Admin → Port Isolation Settings, we can enable or disable port Isolation function in here, and click 'Apply Changes' button to finish the settings.

■ Site contents:	
LAN Advance Diagnostics	Port Isolation Settings
	✓Enable port isolation
GPON Settings CATV Settings OLT Adapt Settings OLT Adapt Settings OMCI Information Commit/Reboot Multi-language Settin Backup/Restore Account Configuration Firmware Upgrade Time Zone Logout Statistics	Apply Changes

# 8.5 ONU Vendor ID Settings

Login ONU WEB. Click Admin  $\rightarrow$  OMCI Information, we can set ONU vendor ID information in here, and click 'Apply Changes' button to finish the settings.



ite contents: I <u>Status</u> I LAN	OMCI Information	
Diagnostics	OMCI Vendor ID:	RTKG
GPON Settings	OMCI software version 1:	V1.0.9
CATV Settings	OMCI software version 2:	V1.0.9
OLT Adapt Settings	OMCC version:	0×80
OMCI Information	Traffic Managament option:	2
Multi-language Settin	CWMP Product Class:	IGD
Backup/Restore	HW version:	RTL960x

### 8.6 Reboot ONU

Statistics

Login ONU WEB. Click Admin -> Commit/Reboot, click 'Commit and Reboot' button to save the configuration and reboot the ONU.

Site contents:  Status LAN Advance Changestics	Commit and Rebo This page is used to commit changes to	o system memory and reboot your system.
	Commit and Reboot:	Commit and Reboot
GPON Settings CATV Settings Port Isolation Settings OLT Adapt Settings OMCI Information Commit/Reboot Multi-language Settin Backup/Restore Account Configuration Firmware Upgrade Time Zone Statistics		

# 8.7 ONU Chinese and English Interface Switch

Login ONU WEB. Click Admin → Multi-Language Settings. In here, we can change the language to Chinese or English, click 'Update selected language' button to finish the settings.



🚝 Site contents:	
<u>Status</u>	Multi-Language Setting
jiii lan	
	This page is used to set multi-language.
Admin	Language Select: English V
GPON Settings	
CATV Settings	Lindate selected language
Port Isolation Settings	chante concere unitante
OLI Adapt Settings	
Multi las suess Cattin	
Backup/Desters	
Backup/Restore	
Eirmware Upgrade	
Statistics	

### 8.8 Reset Settings to Default

Login ONU WEB. Click Admin → Backup/Restore. In here, we can backup and restore settings, and click 'Reset' button to restore the ONU settings to default.

Site contents:	Backup and Restor	re Settings
Diagnostics     Admin     GPON Settings     GATV Settings	Backup Settings to File:	anys to a new of resource the settings from the new much was saved previously, besides, you could reset the current settings to racioly detaut
Ort Isolation Settings     OLT Adapt Settings     OLT Adapt Settings     OMCI Information	Restore Settings from File:	Choose File Restore
Commit/Reboot Multi-language Settin Backup/Restore Account Configuratio Firmware Upgrade Time Zone Logout Statistics	Reset Settings to Default:	Reset

#### 8.9 Modify the Account and Password

Default system management account and password are adminisp/adminisp Default system common account and password are admin/admin

Login ONU WEB. Click Admin  $\rightarrow$  Account Configuration. In here, we can change the password for management account and common account, and click 'Apply Changes' button to finish the settings.





	-
CCOUNT CONTINUEST	inn
<b>ACCOUNT CONNULAT</b>	

This page is used to set the account to access the we	eb server of your Device. Empty user name and password will disable the protectio
Username:	adminisp <b>v</b>
Old Password:	
New Password:	
Confirmed Password:	
Apply Changes Reset	

# 8.10 Upgrade the ONU

Firstly, we have to get a newest firmware from provider.

Login ONU WEB. Click Admin → Firmware Upgrade. In here, click 'Choose File' button to select a upgrade file, and click 'Upgrade' button to upgrade the ONU.

Note: We needn't extract Realtek project production's firmware, just upgrade the .tar file. It will take 4 minutes to upgrade. After upgrading, the ONU will reboot automatically. We needn't reboot it by manual.



# 9 ONU Interface Traffic Statistics

#### 9.1 PON Statistics

Login ONU WEB. Click Statistics  $\rightarrow$  PON Statistics. In here, we can view the information of transmitted and received packets of ONU PON port.



Site contents:	PON Statistics	
Diagnostics	Bytes Sent:	1145280
Statistics	Bytes Received:	700233
PON Statistics	Packets Sent:	13937
EAN Statistics	Packets Received:	10941
	Unicast Packets Sent:	0
	Unicast Packets Received:	1
	Multicast Packets Sent:	13485
	Multicast Packets Received:	10940
	Broadcast Packets Sent:	452
	Broadcast Packets Received:	0
	FEC Errors:	0
	HEC Errors:	0
	Packets Dropped:	0
	Pause Packets Sent:	0
	Pause Packets Received:	0

# 9.2 ONU LAN Interface Traffic Statistics

Login ONU WEB. Click Statistics  $\rightarrow$  LAN Statistics. In here, we can view the information of transmitted and received packets of ONU lan ports.

LAN S	LAN Statistics							
LAN Mess	LAN Message							
Interface	Reveived				Sent			
	Bytes	Packets	Errors	Dropped	Bytes	Packets	Errors	
LAN-1	1496668	12480	1	1	12429606	20954	0	
LAN-2	0	0	0	0	0	0	0	
LAN-3	0	0	0	0	0	0	0	
LAN-4	0	0	0	0	0	0	0	