

airlive XPON ONU Wifi6 MESH Router



airlive XPON ONU Wifi6 MESH Router User Manual

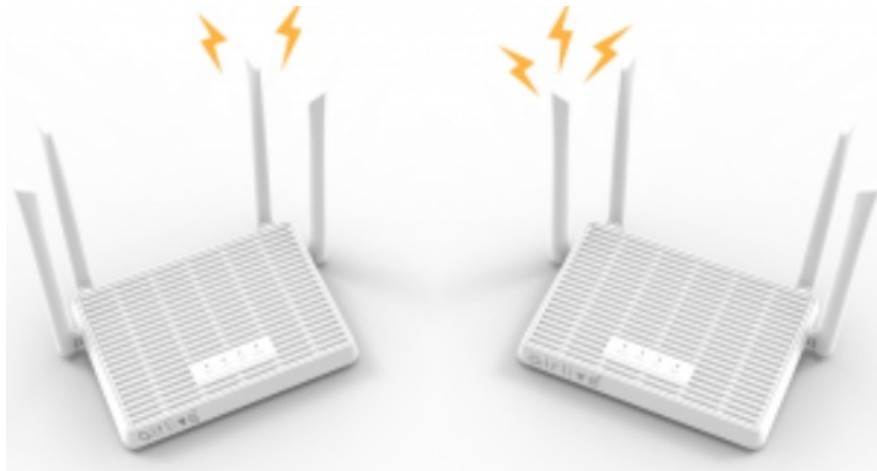
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airlive XPON ONU Wifi6 MESH Router



AirLive 2.5GE XPON ONU & AirLive XPON ONU-1GE
USER MANUAL

Chapter 1 Product Introduction

1. Product Description

The AirLive 2.5GE XPON ONU (1*2.5GE+1GE) is specially designed to meet the needs of telecom operators for FTTO (office), FTTD (desktop), FTTH (home), SOHO broadband access, video surveillance, etc. It is based on mature XPON technology, high reliability, easy maintenance, and can provide QoS guarantee for different services. The ONU's 2.5GE network port can fully meet the high access bandwidth requirements of WIFI 6 technology, AR/VR technology, 8K video and other technologies, and can bring fast Internet access experience and lower Internet latency for home users and enterprise users. The AirLive XPON ONU-1GE has the function only without the additional 2.5GE port. The XPON ONU-1GE comes with a single Gigabit RJ-45 port.



Figure 1-1: AirLive 2.5GE XPON ONU (left) & XPON ONU-1GE (right)

2. Special features

- Integrated auto detecting, auto configuration, and auto firmware upgrade technology.
- Support OAM/OMCI remote configuration and maintenance.
- Support rich VLAN, DHCP Server and IGMP snooping multicast feature.
- Fully compatibility with OLT based on Broadcom/PMC/Cortina chipset.
- Support NAT, Firewall function.
- Support bridge and router mode.

3. Technical Parameter

Technical items	Descriptions
PON interface	<ul style="list-style-type: none"> • 1 G/EPON port (EPON PX20+ and GPON Class B+) • Receiving sensitivity: $\leq -28\text{dBm}$ • Transmitting optical power: $0\sim +4\text{dBm}$ • Transmission distance: 20KM
Wavelength	Tx1310nm, Rx 1490nm
Optical interface	SC/PC connector
Interface (2.5GE XPON ONU)	1* 10/100/1000Mbps and 1* 10/100/1000/2500Mbps auto adaptive Ethernet interfaces. Full /Half Duplex, RJ45 connectors.
Indicator (2.5GE XPON ONU)	5 indicators, SYS, PON, LOS, LAN1~2
Interface (XPON ONU-1GE)	1* 10/100/1000Mbps auto adaptive Ethernet interfaces. Full /Half Duplex, RJ45 connectors.
Indicator (XPON ONU-1GE)	3 indicators, SYS, LINK/ACT, REG.
Operating condition	-5°C 55°C, 10% 90% non-condensing
Storing condition	-30°C 60°C, 10% 90% non-condensing
Power supply	DC 12V, 0.5A
Power consumption	$\leq 4\text{W}$
Dimension (2.5GE XPON ONU)	100mm*92mm*29.5mm(L*W*H)
Net weight (2.5GE XPON ONU)	0.11Kg
Dimension (XPON ONU-1GE)	82mm*82mm*25mm L*W*H
Net weight (XPON ONU-1GE)	0.08Kg

Application chart

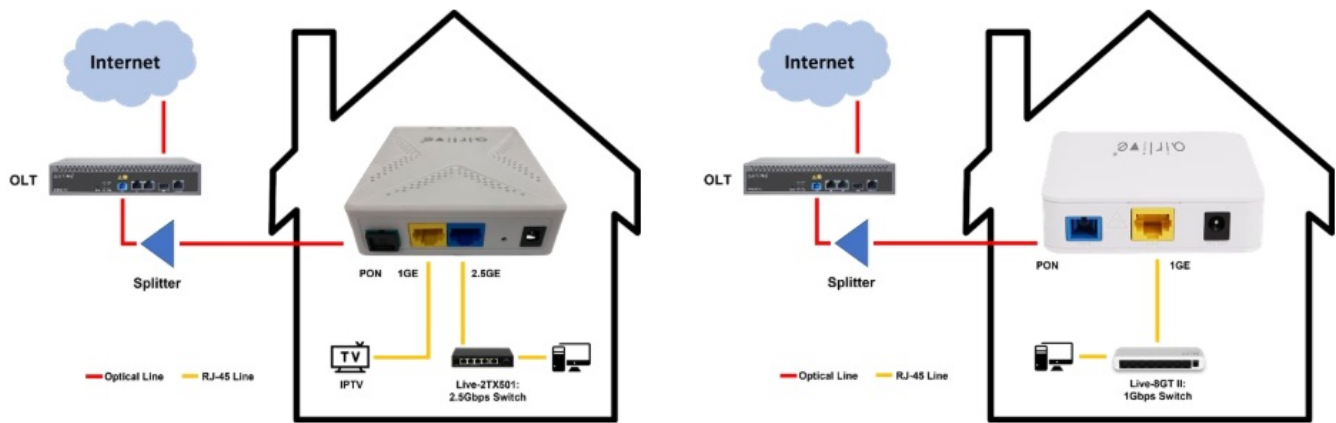


Figure 1-2: Application chart (left 2.5GE model, right 1GE model)

Panel description

Interface/Button panel 2.5GE XPON ONU

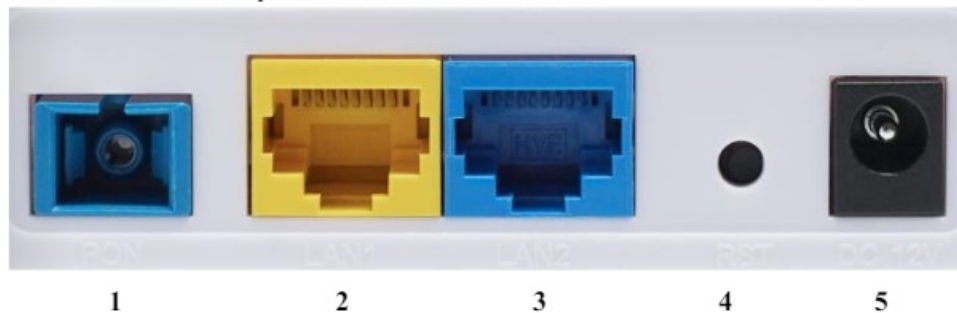


Figure 1-3: Interface/Button panel

Name	Function
1: PON	Connect to OLT by SC type fiber connector, single mode optical fiber cable.
2/3: LAN1/2	<ul style="list-style-type: none"> The blue LAN2 is a 2.5GbE port and the yellow LAN1 is a 1GE port. Connect to PC or other devices with Ethernet port by Cat5/Cat5E cable, RJ-45 connector.
4: RST	Press RST button over 10 seconds, ONU restores factory default and reboots.
5: DC 12V	Connect with power adapter. DC 12V, 0.5A.

Indication Panel 2.5GE XPON ONU

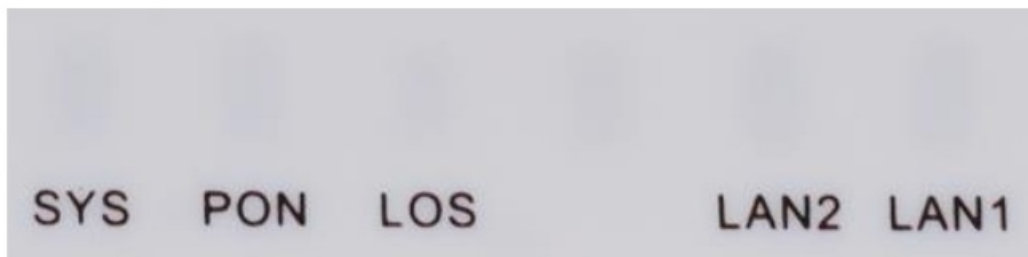


Figure 1-4: Indication panel

LED	Mark	Status	Description
System	SYS	On / Off	System is not running or fatal error.
		Blink	Normal running.
Registration	PON	On	The device is registered to the PON system.
		Off	The device is not registered to the PON system.
		Blink	The device is registering.
Optical signal loss	LOS	Blink	Device does not receive optical signal.
		Off	Device receives optical signal.
LAN	LAN1 LAN2	On	Port is connected properly.
		Off	Port connection exception or not connected.
		Blink	Port is sending or/and receiving data.

Interface/Button panel XPON ONU-1GE

Interface/Button panel XPON ONU-1GE



Figure 1-3: Interface/Button panel

Name	Function
1: PON	Connect to OLT by SC type fiber connector, single mode optical fiber cable.
2: LAN	Connect PC or other devices with Ethernet port by Cat5 cable, RJ-45 connector.
3: DC 12V	Connect with power adapter. DC 12V, 0.5A.
4: RST	Press RST button over 10 seconds, ONU restores factory default and reboot.

Indication Panel XPON ONU-1GE

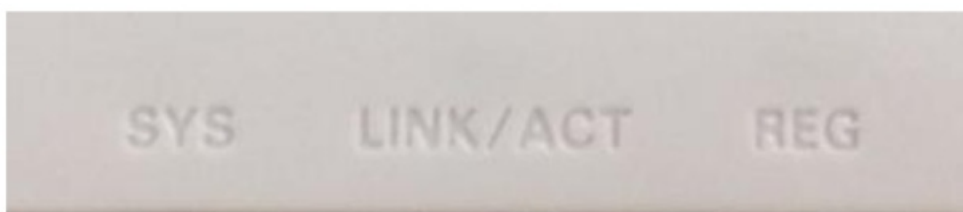


Figure 1-4: Indication panel

LED	Mark	Status	Description
Interface	LINK/ACT	ON	Port is connected properly (LINK).
		Off	Port connection exception or not connected.
		Blink	Port is sending or/and receiving data (ACT).
Registration	REG	ON	Green: The device is registered to PON system.
		OFF	Device has received optical signal and not registered to the PON system.
		Blink	Red: The Device does not receive optical signals.
System	SYS	On / Off	System is not running or fatal error
		Blink	Normal running

Chapter 2 Quick Installation

1. Standard Packing Contents

When you receive your product, please check carefully to make sure that the product does not have any defects. If something is wrong with shipping, please contact carrier; other damage or lack of some parts, please contact with dealer.

Contents	Quantity
Dual Mode ONU	1 pcs
Power Adapter	1 pcs
Installation Guide	1 pcs

Quick Installation

1. 1. Connecting the optical fiber cable to the unit.

- Remove the protective cap of the optical fiber.
- Clean the end of the optical fiber with an optical fiber end cleaner.
- 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.

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. Otherwise, the optical signal loss may be increased, to the extent that signal may be unavailable.
 - Cover all optic ports and connectors with a protective cap to guard against dust and moisture when the fiber is not used.
2. Apply power to the unit. Push the power button.
 3. 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. If it is, the connection is normal; otherwise, there is either a problem of the physical connection or the optical level at either end. This may be caused by either too much or too little attenuation over the optical fiber. Please refer to the Layout Description section of this installation manual for normal LED activity.
 4. 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. Installing the ONU on a vertical surface (Hanging on a wall) You can install the ONU on a vertical surface by using the mounting holes on the bottom of the ONU chassis and two flat-head wood screws.

- Insert the screws into the wall. The screw positions must be in the same horizontal line and the distance between them must be 145mm. Reserved at least 6mm between the screw caps and the wall.
- Hang the ONU on the screws through the mounting holes.

Chapter 3 Configuration

Note For this guide images of the 2.5GE XPON ONU WEBui were used.

- After finishing the basic connection configuration, you can use its basic function. In order to satisfy individuation service requirements, this charter provides the user parameter modification and individuation configuration description.
- This model of ONU is designed as SFU (single family unit, bridge mode). When it works on bridge mode, VLAN of LAN port can be configured by OLT. You can also use this model as HGU, you can configure router mode or bridge mode through its web management.

Login

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

1. Conform "Quick Installation" to install.
2. The device default IP is 192.168.1.1.
3. Open your web browser, type the device IP in the address bar.
4. Entry of the username and password will be prompted. Enter the default login username and password.
By default, Administration level username is "admin", password is "stdONU0i".
By default, User level username is "user", password is "user".

Web Login

User Name:

Password:

Validate Code:

X P 4 B 5

Refresh

Enter the characters (without spaces) shown in the image.

Login

Reset

Figure 3-1: Login

For security, you will be asked to modify password after you logged in by default password. The new password must meet the requirements that are displayed on the web page. After submitting, it requires you to login by new password.

Please Modify Super User Password

Password must contain at least the following two types of characters:0-9,a-z,A-Z,special characters(. _@!~#\$\$%^*()+=?)

New Password:	<input style="width: 95%;" type="password"/>
Confirm Password:	<input style="width: 95%;" type="password"/>

Modify

Reset

Figure 3-2: Change Password

Status

This part shows the main information of the product.

Device Information

Device Info

This page shows the device basic information, such as Software Version, PON SN, LAN info, WAN info and so on.

Status
Setup
Advanced
Service
Firewall
Maintenance

➤ Device Info

➤ Device Info

➤ PON

✔ Statistics

✔ Logout

Status

This page shows the current status and some basic settings of the device.

⚙

System

Alias Name	XPON+1GE+2.5GE
Uptime	7 2:30:58
Date/Time	Sun Jan 8 2:30:58 2012
Firmware Version	V1.1.0
Built Date	Jul 28 2023 19:42:53
Serial Number	004F5B000120

⚙

CWMP Status

Inform Status	No Inform Send(No cwpmp connection)
Connection Request Status	No connection request

LAN Configuration	
IP Address	192.168.1.1
Subnet Mask	255.255.255.0
IPv6 Address	fe80::1eef:3ff:fe000120
DHCP Server	Enable
MAC Address	00:4F:5B:00:01:20

Figure 3-3: Device Information

PON Status

This page shows the current system status of PON.

StatusSetupAdvancedServiceFirewallMaintenance

> Device Info

> Device Info

> PON

Statistics

Logout

PON Status

This page shows the current system status of PON.

PON Status

Vendor Name	ONU
Part Number	GN25L95
Temperature	55.925781 C
Voltage	3.236000 V
Tx Power	-inf dBm
Rx Power	-inf dBm
Bias Current	0.204000 mA

Connection information

Connect state	Not registered, Not certificated
---------------	----------------------------------

GPON Status

ONU State	O1
ONU ID	9
LOID Status	Initial Status

Refresh

Statistics

This page shows the packet statistics for transmission and reception regarding to network interface.



Statistics:

Interface	Rx pkt	Rx err	Rx drop	Tx pkt	Tx err	Tx drop
lan1	0	0	0	0	0	0
lan2	4124	0	1	5839	0	0
WAN0	0	0	0	0	0	0

Refresh

Figure 3-4: WAN Connection

Statistics

This page shows the packet statistics for transmission and reception regarding the network interface.

Logout

This page is used to logout from the Device.

Logout

This page is used to logout from the Device.

Logout

Figure 3-6: Logout

Setup

WAN

WAN Configuration

This page is used to configure the parameters for the WAN interface of the ONU.

Note: When connect type of PPPoE only is “Manual”, the “Connect” and “Disconnect” button will be enabled.

WAN Configuration

This page is used to configure the parameters for the WAN interface of your ADSL and(or) Ethernet Modem/Router. Note : When connect type of PPPoE and PPPoA only is "Manual", the "Connect" and "Disconnect" button will be enable.

Default Route Selection:	<input checked="" type="radio"/> Auto <input type="radio"/> Specified
--------------------------	---

Channel Mode:	<input type="text" value="Bridge"/>	Enable NAPT:	<input type="checkbox"/>
Enable IGMP:	<input type="checkbox"/>		

VLAN:	<input checked="" type="radio"/> Disable <input type="radio"/> Enable		
VLAN ID(1-4095):	<input type="text"/>	VLAN Cos(0-7):	<input type="text"/>

Multicast VLAN ID(1-4095):	<input type="text"/>
----------------------------	----------------------

Application Mode:	<input type="text" value="INTERNET"/>
-------------------	---------------------------------------

PPP Settings:			
User Name:	<input type="text"/>	Password:	<input type="text"/>
Service Name:	<input type="text"/>		
Type:	<input type="text" value="Continuous"/>	Idle Time (min):	<input type="text"/>

WAN IP Settings:			
Type:	<input checked="" type="radio"/> Fixed IP <input type="radio"/> DHCP		
Local IP Address:	<input type="text"/>	Gateway:	<input type="text"/>
NetMask:	<input type="text"/>		

Figure 3-7: WAN Connection

PON Settings

This page is used to configure the parameters for your EPON network access.

LOID:	<input type="text" value="123456789"/>
LOID Password:	<input type="text" value="123456"/>

Figure 3-8: PON Settings

LAN

LAN Interface Setup

This page is used to configure the LAN interface of your Router. Here you may change the setting for IP address, subnet mask, etc...

LAN Interface Setup

This page is used to configure the LAN interface of your Router. Here you may change the setting for IP address, subnet mask, etc..

Interface Name:	Ethernet1	
IP Address:	<input type="text" value="192.168.1.1"/>	
Subnet Mask:	<input type="text" value="255.255.255.0"/>	
<input type="checkbox"/> Secondary IP		
Mac Based Tag Decision:	<input type="radio"/> Disable	<input checked="" type="radio"/> Enable

Apply Changes

Figure 3-9: LAN Interface Setup

DHCP Mode

This page can be used to config the DHCP mode: None, DHCP Relay or DHCP Server.

1. Enable the DHCP Server if you are using this device as a DHCP server. This page lists the IP address pools available to host on your LAN. The device distributes numbers in the pool to host on your network as they request Internet access.
2. Enable the DHCP Relay if you are using the other DHCP server to assign IP address to your host on the LAN. You can set the DHCP server IP address.
3. If you choose "None", then the modem will do nothing when the host requests an IP address.

LAN IP Address: 192.168.1.1	Subnet Mask: 255.255.255.0
DHCP Mode:	DHCP Server ▼

IP Pool Range:	192.168.1. 2 - 192.168.1. 254	Show Client
Subnet Mask:	255.255.255.0	
Default Gateway:	192.168.1.1	
Max Lease Time:	1440 minutes	
Domain Name:		
DNS Servers:	<input checked="" type="radio"/> Auto <input type="radio"/> Manual	
	192.168.1.1	

Apply Changes Undo

Set VendorClass IP Range

Figure 3-10: DHCP Mode

DHCP Static

This page lists the fixed IP/MAC address on your LAN. The device distributes the number configured to hosts on your network as they request Internet access.

DHCP Static IP Configuration

This page lists the fixed IP/MAC address on your LAN. The device distributes the number configured to hosts on your network as they request Internet access.

IP Address:	0.0.0.0	
Mac Address:	000000000000	(ex. 00E086710502)

Add Delete Selected Undo

⚙️ DHCP Static IP Table:

Select	IP Address	MAC Address
--------	------------	-------------

Figure 3-11: DHCP Static IP Configuration

LAN IPv6 Setting

This page is used to configure ipv6 Lan setting. User can set Lan RA server work mode and Lan DHCPv6 server work mode.

Lan Global Address Setting

Global Address:
 /

Apply Changes

RA Setting

Enable:
☒

M Flag:
☐

O Flag:
☒

Max Interval:
 Secs

Min Interval:
 Secs

Prefix Mode:
Auto ▼

ULA Enable:
☐

RA DNS Enable:
☐

Apply Changes

DHCPv6 Setting

DHCPv6 Mode:
Auto Mode ▼

IPv6 Address Suffix Pool:
 - (ex. :1:1:1:1 or ::1)

IPv6 DNS Mode:
Auto ▼

Apply Changes

Figure 3-12: DHCP IPv6 Setting

Advanced

Route

Static Route

This page is used to configure the routing information. Here you can add/delete IP routes.

Routing Configuration

This page is used to configure the routing information. Here you can add/delete IP routes.

Enable:	<input checked="" type="checkbox"/>
Destination:	<input type="text"/>
Subnet Mask:	<input type="text"/>
Next Hop:	<input type="text"/>
Metric:	<input type="text" value="1"/>
Interface:	<input type="text" value="v"/>

Add RouteUpdateDelete SelectedShow Routes

Static Route Table:

Select	State	Destination	Subnet Mask	NextHop	Metric	Itf
--------	-------	-------------	-------------	---------	--------	-----

Figure 3-13: Routing Configuration

IPv6 Static Route

This page is used to configure the ipv6 routing information. Here you can add/delete IPv6 routes.

IPv6 Routing Configuration

This page is used to configure the ipv6 routing information. Here you can add/delete IPv6 routes.

Destination:	<input type="text"/>
Prefix Length:	<input type="text"/>
Next Hop:	<input type="text"/>
Interface:	<input type="text" value="v"/>

Add RouteDelete Selected

IPv6 Static Route Table:

Select	Destination	NextHop	Interface
--------	-------------	---------	-----------

Figure 3-14: IPv6 Routing Configuration

NAT

DMZ

A Demilitarized Zone is used to provide Internet services without sacrificing unauthorized access to its local private network. Typically, the DMZ host contains devices accessible to Internet traffic, such as Web (HTTP) servers, FTP servers, SMTP (e-mail) servers and DNS servers.

DMZ

A Demilitarized Zone is used to provide Internet services without sacrificing unauthorized access to its local private network. Typically, the DMZ host contains devices accessible to Internet traffic, such as Web (HTTP) servers, FTP servers, SMTP (e-mail) servers and DNS servers.

WAN Interface:	any ▾
DMZ Host IP Address:	<input type="text"/>

Apply Changes **Reset**

⚙️ **Current DMZ Table:**

Select	WAN Interface	DMZ IP
--------	---------------	--------

Delete Selected

Figure 3-15: DMZ

Virtual Server

This page allows you to config a virtual server, so others can access the server through the Gateway.

Virtual Server

This page allows you to config virtual server,so others can access the server through the Gateway.

Service Type:	
<input checked="" type="radio"/> Usual Service Name:	AUTH ▾
<input type="radio"/> User-defined Service Name:	<input type="text"/>
Protocol:	TCP ▾
WAN Setting:	Interface ▾
WAN Interface:	any ▾
WAN Port:	113 <small>(ex. 5001:5010)</small>
LAN Open Port:	113
LAN Setting:	Ip Address ▾
LAN IP Address:	<input type="text"/>

Apply Changes

⚙️ Current Virtual Server Forwarding Table:

ServerName	Protocol	Local IP Address	Local Port	WAN IP Address	WAN Port	State	Action
------------	----------	------------------	------------	----------------	----------	-------	--------

Figure 3-16: Virtual Server

ALG

Setup NAT ALG and Pass-Through configuration

NAT ALG and Pass-Through

Setup NAT ALG and Pass-Through configuration

IPSec Pass-Through:	<input checked="" type="checkbox"/> Enable
L2TP Pass-Through:	<input checked="" type="checkbox"/> Enable
PPTP Pass-Through:	<input checked="" type="checkbox"/> Enable
FTP:	<input checked="" type="checkbox"/> Enable
H.323:	<input checked="" type="checkbox"/> Enable
SIP:	<input checked="" type="checkbox"/> Enable
RTSP:	<input checked="" type="checkbox"/> Enable

Apply Changes **Reset**

Figure 3-17: ALG

QoS

This page allows user to set QoS rules.

IP QoS

IP QoS: ☒ disable ☐ enable

Apply

Figure 3-18: QoS Configuration

Traffic Shaping

Entries in this table are used for traffic control.

IP QoS Traffic Shaping

Entries in this table are used for traffic control.

Traffic Shaping in the network interface:

Total Bandwidth: kbps

Apply

Traffic Shaping Rule List

ID	Protocol	Src Port	Dst Port	Src IP	Dst IP	Rate	Remove
----	----------	----------	----------	--------	--------	------	--------

Add **Save/Apply**

Figure 3-19: IP QoS Traffic Shaping

CWMP

This page is used to configure the TR-069 CPE. Here you may change the setting for the ACS's parameters.

TR-069 Configuration

This page is used to configure the TR-069 CPE. Here you may change the setting for the ACS's parameters.

ACS:	
Enable:	<input checked="" type="checkbox"/>
URL:	<input type="text" value="http://172.21.70.44/cpe/?pd128"/>
User Name:	<input type="text" value="rtk"/>
Password:	<input type="text" value="rtk"/>
Periodic Inform Enable:	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Periodic Inform Interval:	<input type="text" value="300"/> seconds

Connection Request:	
User Name:	<input type="text" value="rtk"/>
Password:	<input type="text" value="rtk"/>
Path:	<input type="text" value="/tr069"/>
Port:	<input type="text" value="7547"/>

Debug:	
ACS Certificates CPE:	<input checked="" type="radio"/> No <input type="radio"/> Yes
Show Message:	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
CPE Sends GetRPC:	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Skip MReboot:	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Delay:	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Auto-Execution:	<input type="radio"/> Disable <input checked="" type="radio"/> Enable

Certificate Management:	
CPE Certificate Password:	<input type="text" value="client"/> <input type="button" value="Apply"/> <input type="button" value="Undo"/>
CPE Certificate:	<input type="button" value="Choose File"/> No file chosen <input type="button" value="Upload"/> <input type="button" value="Delete"/>
CA Certificate:	<input type="button" value="Choose File"/> No file chosen <input type="button" value="Upload"/> <input type="button" value="Delete"/>

Figure 3-20: TR-069 Configuration MAC Filter

VLAN Mapping

This page is used to configure VLAN binding for Lan ports.

VLAN Binding Configuration

This page is used to configure vlan binding for lan ports.

Port Binding ▾

Apply Changes

Vlan Binding Table:


Port	Binding Mode	VLAN Binding	Modify
LAN1	Port Binding		

Figure 3-21: VLAN Binding Configuration

Others

This page is used to configure v6inv4 tunnel or v4inv6 tunnel.

Tunnel Configuration

This page is used to configure v6inv4 tunnel or v4inv6 tunnel.

DS-Lite Tunnel:

Enable:

☐

Interface:

▾

(Only support IPv6 Wan Interface)

Mode:

Auto

▾

Apply Changes

Figure 3-22: Tunnel Configuration

Service

IGMP

1. IGMP Proxy

- IGMP proxy enables the system to issue IGMP host messages on behalf of hosts that the system discovered through standard IGMP interfaces. The system acts as a proxy for its hosts when you enable it by doing the follows:
- Enable IGMP proxy on WAN interface (upstream), which connects to a router running IGMP.
- Enable IGMP on LAN interface (downstream), which connects to its hosts.

IGMP Proxy:	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Multicast Allowed:	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Robust Count:	<input type="text" value="2"/>
Last Member Query Count:	<input type="text" value="2"/>
Query Interval:	<input type="text" value="60"/> (seconds)
Query Response Interval:	<input type="text" value="100"/> (*100ms)
Group Leave Delay:	<input type="text" value="2000"/> (ms)

Apply Changes **Undo**

Figure 3-23: IGMP Proxy

MLD

MLD Proxy and Snooping can be configured here.

MLD Configuration
MLD Proxy and Snooping can be configured here.

MLD proxy:	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Robust Counter:	<input type="text" value="2"/>
Query Interval:	<input type="text" value="125"/> (Second)
Query Response Interval:	<input type="text" value="10000"/> (millisecond)
Response Interval of Last Group Member:	<input type="text" value="1"/> (Second)

Apply Changes **Cancel**

Figure 3-24: MLD Configuration

UPnP

This page is used to configure UPnP. The system acts as a daemon when you enable UPnP.

UPnP Configuration

This page is used to configure UPnP. The system acts as a daemon when you enable UPnP.

UPnP:	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
WAN Interface:	<div>▼</div>

Apply Changes

Figure 3-25: UPnP Configuration

Firewall

MAC Filtering

Entries in this table are used to restrict certain types of data packets from your local network to the Internet through the Gateway. Use of such filters can be helpful in securing or restricting your local network.

MAC Filtering

Entries in this table are used to restrict certain types of data packets from your local network to Internet through the Gateway. Use of such filters can be helpful in securing or restricting your local network.

MAC Address:	<input type="text"/> (ex. 00E086710502)
--------------	---

Add

⚙️ Current MAC Filter Table:

Select	MAC Address
--------	-------------

Delete

Delete All

Figure 3-26: MAC Filtering

IP/Port Filtering

Entries in this table are used to restrict certain types of data packets from your local network to the Internet through the Gateway. Use of such filters can be helpful in securing or restricting your local network. This page allows user to set web page login timeout. If don't operate the web page for the time out, the account will logout automatically.

Default Policy
☒ Permit
☐ Deny

Rule Action:
☒ Permit
☐ Deny

Protocol:
ICMP

Source IP Address:
Mask Address:
255.255.255.255

Dest IP Address:
Mask Address:
255.255.255.255

SPort:
DPort:

Enable:
☒

Apply Changes

Current Filter Table:

Rule	WantIf	Protocol	Source IP/Mask	SPort	Dest IP/Mask	DPort	State	Action
------	--------	----------	----------------	-------	--------------	-------	-------	--------

Figure 3-27: IP/Port Filtering

IPv6/Port Filtering

Entries in this table are used to restrict certain types of ipv6 data packets from your local network to Internet through the Gateway. Use of such filters can be helpful in securing or restricting your local network.

Default Action
☒ Permit
☐ Deny

Apply Changes
Reset

Rule Action:
☒ Permit
☐ Deny

Protocol:
ICMP6

Source IPv6 Address:

Dest IPv6 Address:

SPort:
DPort:

Enable:
☒

Apply Changes

Current Filter Table:

Rule	Protocol	Source IPv6/Prefix	SPort	Dest IPv6/Prefix	DPort	State	Direction	Action
------	----------	--------------------	-------	------------------	-------	-------	-----------	--------

Figure 3-28: IPv6/Port Filtering

URL Filter

This page is used to configure the filtered keyword. Here you can add/delete filtered keyword.

URL Blocking Configuration

This page is used to configure the filtered keyword. Here you can add/delete filtered keyword.

URL Blocking Capability: ☒ Disable ☐ Enable

Apply Changes

Keyword:

AddKeyword **Delete Selected Keyword**

URL Blocking Table:

Select	Filtered Keyword
--------	------------------

Figure 3-29: URL Blocking Configuration

ACL

- You can specify which services are accessible from LAN or WAN side.
- Entries in this ACL table are used to permit certain types of data packets from your local network or Internet network to the Gateway.
- Use of such access control can be helpful in securing or restricting the Gateway management.

ACL Configuration

You can specify which services are accessible form LAN or WAN side.

Entries in this ACL table are used to permit certain types of data packets from your local network or Internet network to the Gateway.

Using of such access control can be helpful in securing or restricting the Gateway managment.

LAN ACL Mode: ☒ White List ☐ Black List

WAN ACL Mode: ☒ White List ☐ Black List

Apply

Direction Select: ☒ LAN ☐ WAN

LAN ACL Switch: ☒ Enable ☐ Disable

Apply

IP Address: - (The IP 0.0.0.0 represent any IP)

Services Allowed:

☒ Any

Add

Current ACL Table:

Select	Direction	IP Address/Interface	Service	Port	Action
0	LAN	0.0.0.0	ping	--	Delete
1	LAN	0.0.0.0	web	80	Delete

Figure 3-30: ACL

IPv6 ACL

- You can specify which services are accessible from LAN or WAN side.
- Entries in this ACL table are used to permit certain types of data packets from your local network or Internet network to the Gateway.
- Use of such access control can be helpful in securing or restricting the Gateway management. This page allows the user to set port mirror for troubleshooting. After configuring port mirror, the traffic of the WAN connection will be copied and sent to the LAN port.

Direction Select: ☒ LAN ☐ WAN

LAN ACL Switch: ☐ Enable ☒ Disable

Apply

IP Address: /

Services Allowed:

☒ Any

Add

Current IPv6 ACL Table:

Direction	IPv6 Address/Interface	Service	Port	Action
WAN	any	ping6	--	Delete

Figure 3-31: IPv6 ACL

DOS Setting

A “denial-of-service” (DoS) attack is characterized by an explicit attempt by hackers to prevent legitimate users of a service from using that service.

<input checked="" type="checkbox"/> Enable DoS Prevention		
<input checked="" type="checkbox"/> Whole System Flood: SYN	100	Packets/Second
<input checked="" type="checkbox"/> Whole System Flood: FIN	100	Packets/Second
<input checked="" type="checkbox"/> Whole System Flood: UDP	100	Packets/Second
<input checked="" type="checkbox"/> Whole System Flood: ICMP	100	Packets/Second
<input checked="" type="checkbox"/> Per-Source IP Flood: SYN	100	Packets/Second
<input checked="" type="checkbox"/> Per-Source IP Flood: FIN	100	Packets/Second
<input checked="" type="checkbox"/> Per-Source IP Flood: UDP	100	Packets/Second
<input checked="" type="checkbox"/> Per-Source IP Flood: ICMP	100	Packets/Second
<input checked="" type="checkbox"/> TCP/UDP PortScan	Low	Sensitivity
<input checked="" type="checkbox"/> ICMP Smurf		
<input checked="" type="checkbox"/> IP Land		
<input checked="" type="checkbox"/> IP Spoof		
<input checked="" type="checkbox"/> IP TearDrop		
<input checked="" type="checkbox"/> PingOfDeath		
<input checked="" type="checkbox"/> TCP Scan		
<input checked="" type="checkbox"/> TCP SynWithData		
<input checked="" type="checkbox"/> UDP Bomb		
<input checked="" type="checkbox"/> UDP EchoChargen		
<input type="button" value="Select ALL"/> <input type="button" value="Clear ALL"/>		
<input type="checkbox"/> Enable Source IP Blocking	300	Block time (sec)
<input type="button" value="Apply Changes"/>		

Figure 3-32: DOS Setting

Maintenance

Update

Upgrade Firmware

- This page allows you to upgrade the Router firmware to a new version. Please note, do not power off the device during the upload because it may crash the system.
- **Note:** System will reboot after file is uploaded.

Upgrade Firmware

This page allows you upgrade the Router firmware to new version. Please note, do not power off the device during the upload because it may crash the system.

Note: System will reboot after file is uploaded.

Select File: No file chosen

Figure 3-33: Upgrade Firmware

Backup/Upload Settings

Once the router is configured you can save the configuration settings to a configuration file on your hard drive. You also have the option to load configuration settings.

Backup/Restore Settings

Once the router is configured you can save the configuration settings to a configuration file on your hard drive. You also have the option to load configuration settings.

Save Settings to File:

Load Settings from File: No file chosen

Figure 3-34: Backup/Upload Settings

Upload Logo

This page allows you to upgrade the logo. Please note, do not power off the device during the upload because it may crash the system.

Upgrade Logo

This page allows you upgrade logo. Please note, do not power off the device during the upload because it may crash the system.

Select File: No file chosen

Figure 3-35: Upgrade Logo

Password

This page is used to add user account to access the web server of ADSL Router. Empty username or password is not allowed.

User Account Configuration

This page is used to add user account to access the web server of ADSL Router. Empty user name or password is not allowed.

User Name:	<input type="text"/>
Privilege:	<input type="text" value="User"/>
Old Password:	<input type="text"/>
New Password:	<input type="text"/>
Confirm Password:	<input type="text"/>

Add

Modify

Delete

Reset

User Account Table:

Select	User Name	Privilege
<input type="radio"/>	admin	root
<input type="radio"/>	user	user

Figure 3-36: User Account Configuration

Reboot/Restore

This page is used to reboot your system or restore it to default setting.

Reboot

This page is used to reboot your system or restore to default setting.

Reboot

Restore to Default Setting

Figure 3-37: Reboot

Reset Button Configuration

This page is used to configure the reset button state.

Reset Button Configuration

This page is used to configure reset button state.

Reset Button Enable: ☒

Apply Changes

Figure 3-38: Reset Button Configuration

Time

This page is used to configure the system time and Network Time Protocol (NTP) server. Here you can change the settings or view some information on the system time and NTP parameters.

System Time Configuration

This page is used to configure the system time and Network Time Protocol(NTP) server. Here you can change the settings or view some information on the system time and NTP parameters.

System Time:	<input type="text" value="2012"/> Year <input type="text" value="Jan"/> Month <input type="text" value="2"/> Day <input type="text" value="16"/> Hour <input type="text" value="2"/> min <input type="text" value="23"/> sec
DayLight:	<input type="text" value="LocalTIME"/>

NTP Configuration:	
State:	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Server:	<input type="text"/>
Server2:	<input type="text"/>
Interval:	Every <input type="text" value="1"/> hours
Time Zone:	<input type="text" value="(GMT) Gambia, Liberia, Morocco, England"/>
GMT time:	Mon Jan 2 16:2:23 2012

NTP Start:	<input type="button" value="Get GMT Time"/>
------------	---

Figure 3-39: System Time Configuration

Log

This page is used to display the system event log table. By checking Error or Notice (or both) will set the log flag. By clicking the ">>|", it will display the newest log information below.

Log Setting

This page is used to display the system event log table. By checking Error or Notice (or both)will set the log flag. By clicking the ">>|", it will display the newest log information below.

Error: <input type="checkbox"/>	Notice: <input type="checkbox"/>
---------------------------------	----------------------------------

Apply Changes

Reset

Event log Table:

Save Log to File

Clean Log Table

Old |<< < > >>| New

Time	Index	Type	Log Information
Page: 1/1			

Figure 3-40: Log Configuration

Diagnostics

Ping Diagnostic

Ping Diagnostic

Host:	<input type="text"/>
Interface:	<input type="button" value="v"/>

PING

Figure 3-41: Ping Diagnostic

IPv6 Ping Diagnostic

Ping6 Diagnostic

Host:	<input type="text"/>
Interface:	<input type="button" value="v"/>

PING

Figure 3-42: IPv6 Ping Diagnostic

Trace Route Diagnostic

Traceroute Diagnostic

Host :	<input type="text"/>	NumberOfTries :	<input type="text" value="3"/>
Timeout :	<input type="text" value="5000"/> ms	Datasize :	<input type="text" value="38"/> Bytes
DSCP :	<input type="text" value="0"/>	MaxHopCount :	<input type="text" value="30"/>
Interface :	<input type="text" value="any"/>		

traceroute

Show Result

Figure 3-43: TraceRoute Diagnostic

IPv6 Trace Route Diagnostic

Traceroute6 Diagnostic

Host :	<input type="text"/>	NumberOfTries :	<input type="text" value="3"/>
Timeout :	<input type="text" value="5000"/> ms	Datasize :	<input type="text" value="38"/> Bytes
MaxHopCount :	<input type="text" value="30"/>	Interface :	<input type="text" value="any"/>

traceroute

Show Result

Figure 3-44: IPv6 TraceRoute Diagnostic

Loop Detection

This page is used to configure loop detection parameters. Here you can change the settings or view loop detect status.

Loop Detection

This page is used to configure loop detection parameters. Here you can change the settings or view loop detect status.

Loop Detection Enable:	<input type="checkbox"/>
Detection Interval:	<input type="text" value="5"/> (1~60)seconds
Recovery Interval:	<input type="text" value="300"/> (10 ~ 1800)seconds
Ethernet Type:	0x <input type="text" value="FFFA"/>
VLAN ID:	<input type="text" value="0"/>
	seperate by ",", 0 represents untagged, ex. 0,45,46

Apply Changes




Loop Detection Status:

Port	Status
LAN1	No Loop

Figure 3-45: Loop Detection

Documents / Resources

	airlive XPON ONU Wifi6 MESH Router [pdf] User Manual XPON ONU Wifi6 MESH Router, XPON ONU, Wifi6 MESH Router, MESH Router, Router
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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