AirLive 2.5GE XPON ONU

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AirLive XPON ONU-1GE

USER MANUAL

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Chapter 1 Product Introduction

1.1 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)

1.2 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.

1.3 Technical Parameter

Technical items	Descriptions	
	1 G/EPON port (EPON PX20+ and GPON Class B+)	
DON	Receiving sensitivity: \leq -28dBm	
r ON interface	Transmitting optical power: 0~+4dBm	
	Transmission distance: 20KM	
Wavelength	Tx1310nm, Rx 1490nm	
Optical interface	SC/PC connector	
Interface (2.5GE	1* 10/100/1000Mbps and 1* 10/100/1000/2500Mbps auto adaptive	
XPON ONU)	Ethernet interfaces. Full /Half Duplex, RJ45 connectors.	
Indicator (2.5GE		
XPON ONU)	5 indicators, SYS, PON, LOS, LAN1~2	
Interface (XPON	1* 10/100/1000Mbps auto adaptive Ethernet interfaces. Full /Half	
ONU-1GE)	Duplex, RJ45 connectors.	
Indicator (XPON	2 indicators SVS I NIV/ACT DEC	
ONU-1GE)	5 Indicators, 515, LINK/AC1, 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	≤4W	
Dimension (2.5GE		
XPON ONU)	100mm*92mm*29.5mm(L*W*H)	
Net weight (2.5GE	0.1117-	
XPON ONU)	0.11Kg	
Dimension (XPON	$92mm_2$	
ONU-1GE)	82mm×82mm×25mm (L×w×H)	
Net weight (XPON	0.084~	
ONU-1GE)	U.UORg	



1.4 Application chart

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

1.5 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	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
	0)/0	On / Off	System is not running or fatal error.
System SYS	Blink	Normal running.	
		On	The device is registered to the PON system.
Registration PON	Off	The device is not registered to the PON system.	
		Blink	The device is registering.
Optical signal	LOS	Blink	Device does not receive optical signal.
loss		Off	Device receives optical signal.
LAN1 LAN2	On	Port is connected properly.	
	LAN1	Off	Port connection exception or not connected.
	Blink	Port is sending or/and receiving data.	

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
		ON	Port is connected properly (LINK).
Interface	LINK/ACT	Off	Port connection exception or not connected.
	Blink	Port is sending or/and receiving data (ACT).	
		ON	Green: The device is registered to PON system.
Registration	REG	OFF	Device has received optical signal and not registered to the PON system.
		Blink	Red: The Device does not receive optical signals.
System S	0)/0	On / Off	System is not running or fatal error
	SYS	Blink	Normal running

Chapter 2 Quick Installation

2.1 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

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.

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.

- a) 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.
- b) 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.

3.1 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 "stdONUi0i". 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 N Password must contain at least the following t	lodify Super User Password wo types of characters:0-9,a-z,A-Z,special characters(/@!~#\$%^*()+=?)
New Password:	
Confirm Password:	
	Modify Reset

Figure 3-2: Change Password

3.2 Status

This part shows the main information of the product.

3.2.1 Device Information

3.2.1.1 Device Info

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

Status Device Info Device Info PON Statistics Definition DeterTime Substitut DeterTime Buit Date Jul 28 2023 19:42:53 Serial Number Od4F5B000120 Od4F5B000120 Od4F5B000120 Od4F5B000120 OderTime Status No Inform Send(No comp connection) Connection Request Status No connection request
▶ Device Info ▶ Device Info ▶ PON ▶ Statistics ▶ Logout Time XPON Uptime 72:30:58 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 Inform Status No Inform Send(No cwmp connection) Connection Request Status No connection request
> Device Info > PON V Statistics V Logout 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 004F58000120 CWMP Status Inform Status Inform Status No Inform Send(No cwmp connection) Connection Request Status No connection request
 PON PON
V Statistics 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 CVMP Status Inform Status Inform Status No Inform Send(No cwmp connection) Connection Request Status No connection request
V Statistics V Logout Firmware Version V1.1.0 Built Date Jul 28 2023 19:42:53 Serial Number 004F5B000120 Imform Status No Inform Send(No cwmp connection) Connection Request Status No connection request Image: LAN Configuration Vision
VI.1.0 Built Date Jul 28 2023 19:42:53 Serial Number 004F58000120 COMP Status Inform Status Inform Status No Inform Send(No cwmp connection) Connection Request Status No connection request Output LAN Configuration
Built Date Jul 28 2023 19:42:53 Serial Number 004F58000120 CWMP Status Inform Status Inform Status No Inform Send(No owmp connection) Connection Request Status No connection request O LAN Configuration Verticity
Serial Number 004F5B000120 CWMP Status Inform Status Inform Status No Inform Send(No cwmp connection) Connection Request Status No connection request O LAN Configuration Vertical Status
CWMP Status Inform Status No Inform Send(No cwmp connection) Connection Request Status No connection request LAN Configuration
CWMP Status Inform Status No Inform Send(No cwmp connection) Connection Request Status No connection request Cultary Lan Configuration
Inform Status No Inform Send(No cwmp connection) Connection Request Status No connection request Co LAN Configuration
Connection Request Status No connection request
LAN Configuration
Cy LAN Conliguration
IP Address 192.188.1.1
Subnet Mask 255.255.256.0
IPV6 Address fe80::1eef:3ff;fe000120
DHCP Server Enable
MAC Address 00:4F:5B:00:01:20

Figure 3-3: Device Information

3.2.1.2 PON Status

This page shows the current system status of PON.

Device Info	PON Status This page shows the current sys	tem status of PON.
> Device Info	ON Status	
> PON	Vendor Name	ONU
	Part Number	GN25L95
 Statistics 	Temperature	55.925781 C
Logout	Voltage	3.236000 V
	Tx Power	-inf dBm
	Rx Power	-inf dBm
	Bias Current	0.204000 mA
	S Connection information	n
	Connect state	Not registered,Not certificated
	③ GPON Status	
	ONU State	01
	ONU ID	9
	LOID Status	Initial Status
	Refresh	

Figure 3-4: PON Status

3.2.2 Statistics

This page shows the packet statistics for transmission and reception regarding the 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

Figure 3-4: WAN Connection

3.2.3 Logout

This page is used to logout from the Device.



Figure 3-6: Logout

3.3 Setup

3.3.1 WAN

3.3.1.1 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.

NAN 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:	$lace$ Auto \bigcirc Specified			
Channel Mode:	Bridge 🗸	Enable NAPT:		
Enable IGMP:				
VLAN:	Disable	O Enable		
VLAN ID(1-4095):		VLAN Cos(0-7):		
Multicast VLAN ID(1-4095):				
Application Mode:	INTERNET ¥			
PPP Settings:				
User Name:		Password:		
Service Name:				
Туре:	Continuous 🗸	Idle Time (min):		
WAN IP Settings:				
Туре:	Fixed IP	OHCP		
Local IP Address:		Gateway:		
NetMask:				

Figure 3-7: WAN Connection

3.3.1.2 PON Settings

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

LOID:	123456789
LOID Password:	123456
Apply Changes	

Figure 3-8: PON Settings

3.3.2 LAN

3.3.2.1 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
	menace	octup

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:	192.168.1.1	
Subnet Mask:	255.255.255.0	
Secondary IP		
Mac Based Tag Decision:	ODisable	• Enable
Apply Changes		

Figure 3-9: LAN Interface Setup

3.3.2.2 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.

92.168.1. 2 92.168.1. 254 Show Client
255.255.255.0
192.168.1.1
1440 minutes
● Auto ○ Manual
192.168.1.1

Figure 3-10: DHCP Mode

3.3.2.3 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:	00000000000 (ex. 00E086710502)				
Add Delete Selected Undo					
DHCP Static IP Table:					
Select IP Ad	dress MAC Address				



3.3.2.4 LAN IPv6 Setting

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

💮 Lan Global Address Settin	ng
Global Address:	
Apply Changes	
RA Setting	
Enable:	
M Flag:	
O Flag:	
Max Interval:	600 Secs
Min Interval:	200 Secs
Prefix Mode:	Auto 🗸
ULA Enable:	
RA DNS Enable:	
Apply Changes	
OHCPv6 Setting	
DHCPv6 Mode:	Auto Mode 🗸
IPv6 Address Suffix Pool:	::1 (ex.:1:1:1:1 or ::1)
IPv6 DNS Mode:	Auto 🗸
Apply Changes	

Figure 3-12: DHCP IPv6 Setting

3.4 Advanced

3.4.1 Route

3.4.1.1 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:						
Destination:						
Subnet Mask:						
Next Hop:						
Metric:		1				
Interface:		~				
Add Route U	pdate Delet	te Selected	Show Routes			
Static Route Table:						
Select S	State [Destination	Subnet Mask	NextHop	Metric	ltf

Figure 3-13: Routing Configuration

3.4.1.2 IPv6 Static Route

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

IPv6 Routing Configu This page is used to configure	Iration the ipv6 routing information. Here y	you can add/delete IPv6 routes.			
Destination:					
Prefix Length:					
Next Hop:					
Interface:	~				
Add Route Delete Selected					
IPv6 Static Route Table:					
Select	Destination	NextHop	Interface		

Figure 3-14: IPv6 Routing Configuration

3.4.2 NAT

3.4.2.1 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:						
Apply Changes Reset						
③ Current DMZ Table:						
Select	WAN Interface	DMZ IP				
Delete Selected						

Figure 3-15: DMZ

3.4.2.2 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 ser	rver,so others can access the server through the Gateway.
Service Type:	
Usual Service Name:	AUTH 🗸
O User-defined Service Name:	
Protocol:	TCP 🗸
WAN Setting:	Interface V
WAN Interface:	any 🗸
WAN Port:	113 (ex. 5001:5010)
LAN Open Port:	113
LAN Setting:	Ip Address 🗸
LAN IP Address:	
Apply Changes	
Ourrent Virtual Server Forward Control Cont	rding Table:
ServerName Protocol Loo	cal IP Address Local Port WAN IP Address WAN Port State Action

Figure 3-16: Virtual Server

3.4.2.3 ALG

Setup NAT ALG and Pass-Through configuration

Enable
Enable

Figure 3-17: ALG

3.4.3 QoS

3.4.3.1 QoS

This page allows user to set QoS rules.

IP QoS	
IP QoS:	\odot disable \bigcirc enable
Apply	



3.4.3.2 Traffic Shaping

Entries in this table are used for traffic control.

IP QoS Traffic Shaping

Entres In	unis table are used i	or traine control.					
💮 Tra	ffic Shaping in th	e network interfa	ice:				
	Total Bandwidth:			0	kbps		
Apply	ffic Shaping Rule	List					
ID	Protocol	Src Port	Dst Port	Src IP	Dst IP	Rate	Remove
Add	Save/Apply						



3.4.4 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:		
URL:	http://172.21.70.44/cpe/?pd128	
User Name:	rtk	
Password:	rtk	
Periodic Inform Enable:	🔿 Disable 🧐 Enable	
Periodic Inform Interval:	300	seconds
Connection Request:		
User Name:	rtk	
Password:	rtk	
Path:	/tr069	
Port:	7547	
Debug:		
ACS Certificates CPE:	◉ No ○Yes	
Show Message:	● Disable ○ Enable	
CPE Sends GetRPC:	Disable Disable	
Skip MReboot:	Disable Enable	
Delay:	O Disable Scable	
Auto-Execution:	Uisable V Enable	
Apply Changes Reset		
Certificate Management:		
CPE Certificate Password:	client App	ly Undo
CPE Certificate:	Choose File No file chosen	Upload
CA Certificate:	Choose File No file chosen	Upload

Figure 3-20: TR-069 Configuration MAC Filter

3.4.5 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 V			
Apply Changes				
💿 Vlan Bindir	ng Table:			
Port	Binding Mode	VLAN Binding	Modify	
LAN1	Port Binding		ľ	

Figure 3-21: VLAN Binding Configuration

3.4.6 Others

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

Tunnel Configuration This page is used to configure v6inv4 tu	nnel or v4inv6 tunnel.
DS-Lite Tunnel:	
Enable:	
Interface:	 ✓ (Only support IPv6 Wan Interface)
Mode:	Auto 🗸
Apply Changes	

Figure 3-22: Tunnel Configuration

3.5 Service

3.5.1 IGMP

3.5.1.1 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:	O Disable Enable
Multicast Allowed:	O Disable Enable
Robust Count:	2
Last Member Query Count:	2
Query Interval:	60 (seconds)
Query Response Interval:	100 (*100ms)
Group Leave Delay:	2000 (ms)
Apply Changes Undo	

Figure 3-23: IGMP Proxy

3.5.1.2 MLD

MLD Proxy and Snooping can be configured here.

MLD Configuration MLD Proxy and Snooping can be configured here.	
MLD proxy:	● Disable ○ Enable
Robust Counter:	2
Query Interval:	125 (Second)
Query Response Interval:	10000 (millisecond)
Response Interval of Last Group Member:	1 (Second)
Apply Changes Cancel	

Figure 3-24: MLD Configuration

3.5.2 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:	O Disable Enable	
WAN Interface:	~	
Apply Changes		



3.6 Firewall

3.6.1 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 of of such filters can be helpful in securing	ertain types of data packets from your local network to Internet through the Gateway. Use or restricting your local network.
MAC Address:	(ex. 00E086710502)
Add	
Ourrent MAC Filter Table:	
Select	MAC Address
Delete Delete All	

Figure 3-26: MAC Filtering

3.6.2 IP/Port Filtering

3.6.2.1 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 C	Deny				
Rule Action:	● Permit ○ Deny					
Protocol:						
Source IP Address:		N	lask Address:	255.255.2	255.255	
Dest IP Address:		N	lask Address:	255.255.2	255.255	
SPort:	-)Port:		-	
Enable:						
Apply Changes						
💿 Current Filter Tat	ble:					
Rule Wanitf Pro	tocol Source IP/Mask	SPort	Dest IP/Mask	DPort	State	Action

Figure 3-27: IP/Port Filtering

3.6.2.2 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 V		
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

3.6.3 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	
O URL Blocking Table:		
Select	Filtered Keyword	

Figure 3-29: URL Blocking Configuration

3.6.4 ACL

3.6.4.1 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 accessable 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 Mo	ode:	۲	White List	O Black List	t	
WAN ACL M	ode:	۲	White List	O Black List		
Apply						
Direction Se	lect:	۲	LAN O WAN			
LAN ACL Sw	vitch:	۲	Enable	O Disable		
Apply						
IP Address:			-	(The IP 0.0	0.0.0 repre	sent any IP)
Services Allo	owed:					
🗹 Any						
Add						
O Current	ACL Table:					
Select	Direction		IP Address/Interface	Service	Port	Action
0	LAN		0.0.0.0	ping		Delete
1	LAN		0.0.0	web	80	Delete

Figure 3-30: ACL

3.6.4.2 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:	O 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

3.6.5 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.

Enable DoS Prevention	
Vhole System Flood: SYN	100 Packets/Second
Whole System Flood: FIN	100 Packets/Second
Vhole System Flood: UDP	100 Packets/Second
Vhole System Flood: ICMP	100 Packets/Second
Per-Source IP Flood: SYN	100 Packets/Second
Per-Source IP Flood: FIN	100 Packets/Second
Per-Source IP Flood: UDP	100 Packets/Second
Per-Source IP Flood: ICMP	100 Packets/Second
CP/UDP PortScan	Low V Sensitivity
CMP Smurf	
IP Land	
IP Spoof	
IP TearDrop	
✓ PingOfDeath	
CP Scan	
CP SynWithData	
UDP Bomb	
UDP EchoChargen	
Select ALL Clear ALL	
Enable Source IP Blocking	300 Block time (sec)
Apply Changes	

Figure 3-32: DOS Setting

3.8 Maintenance

3.8.1 Update

3.8.1.1 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:	Choose File No file chosen	
Upload Reset		

Figure 3-33: Upgrade Firmware

3.8.1.2 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 s option to load configuration settings.	ave the configuration settings to a configura	ation file on your hard drive. You also have the
Save Settings to File:	Save	
Load Settings from File:	Choose File No file chosen	Upload

Figure 3-34: Backup/Upload Settings

3.8.1.3 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:	Choose File No file chosen	
Upload Reset		

Figure 3-35: Upgrade Logo

3.8.2 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:		
Privilege:	User 🗸	
Old Password:		
New Password:		
Confirm Password:		
Add Modify Delete Reset		
💿 User Account Tabl	le:	
Select	User Name	Privilege
0	admin	root
0	user	user

Figure 3-36: User Account Configuration

3.8.3 Reboot/Restore

3.8.3.1 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

3.8.3.2 Reset Button Configuration

This page is used to configure the reset button state.

Reset Button Configuration This page is used to configure reset but	ton state.
Reset Button Enable:	
Apply Changes	

Figure 3-38: Reset Button Configuration

3.8.4 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:	2012 Year Jan V Month 2 Day 16 Hour 2 min 23 sec	
DayLight:	LocalTIME 🗸	
Apply Changes Ro	eset	
NTP Configuration:		
State:		
Server:		
Server2:		
Interval:	Every 1 hours	
Time Zone:	(GMT) Gambia, Liberia, Morocco, England 🗸	
GMT time:	Mon Jan 2 16:2:23 2012	
Apply Changes Re	eset	
NTP Start:	Get GMT Time	

Figure 3-39: System Time Configuration

3.8.5 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. Notice: Error: Apply Changes Reset Event log Table: Save Log to File Clean Log Table Old |<< < > >>| New Time Index Log Information Туре Page: 1/1

Figure 3-40: Log Configuration

3.8.6 Diagnostics

3.8.6.1 Ping Diagnostic

Ping Diagnostic		
Host:		
Interface:	▼	
PING		

Figure 3-41: Ping Diagnostic

3.8.6.2 IPv6 Ping Diagnostic

Ping6 Diagnostic		
Host:		
Interface:	~	
PING		

Figure 3-42: IPv6 Ping Diagnostic

3.8.6.3 TraceRoute Diagnostic

Traceroute Diagnostic				
Host :		NumberOfTries :	3	
Timeout :	5000 ms	Datasize :	38 Bytes	
DSCP :	0	MaxHopCount :	30	
Interface :	any 🗸			
traceroute Show Result				



3.8.6.4 IPv6 TraceRoute Diagnostic

Traceroute6 Diagnostic				
Host :		NumberOfTries :	3	
Timeout :	5000 ms	Datasize :	38 Bytes	
MaxHopCount :	30	Interface :	any 🗸	
traceroute Show Result				

Figure 3-44: IPv6 TraceRoute Diagnostic

3.8.6.5 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:			
Detection Interval:	5 (1~60)seconds		
Recovery Interval:	300 (10 ~ 1800)seconds		
Ethernet Type:	0x FFFA		
VLAN ID:	0		
	seperate by ",", 0 represents untagged, ex. 0,45,46		
Apply Changes			
O Loop Detection Status:			
Port	Status		
LAN1	No Loop		

Figure 3-45: Loop Detection