



# **ACT AP224B GPON HGU ONT**

**Quick Reference  
Guide**

**Revision C**

## ACT AP224B GPON HGU ONT

### Quick Reference Guide

ACT Document Number: ACT AP224B GPON HGU ONT

Quick Reference Guide Revision C

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This document is produced to assist professional and properly trained personnel with installation and maintenance issues for the product. The capabilities, system requirements and/or compatibility with third-party products described herein are subject to change without notice.

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#### Revision History

Revision	Date	Reason for Change
A	2/15/2018	Initial release
B	2/17/2018	Updated login information

## Table of Contents

Introduction .....	4
1 Hardware Connection .....	4
2 Computer Setup .....	6
3 Guide Setup.....	8
Troubleshooting .....	12

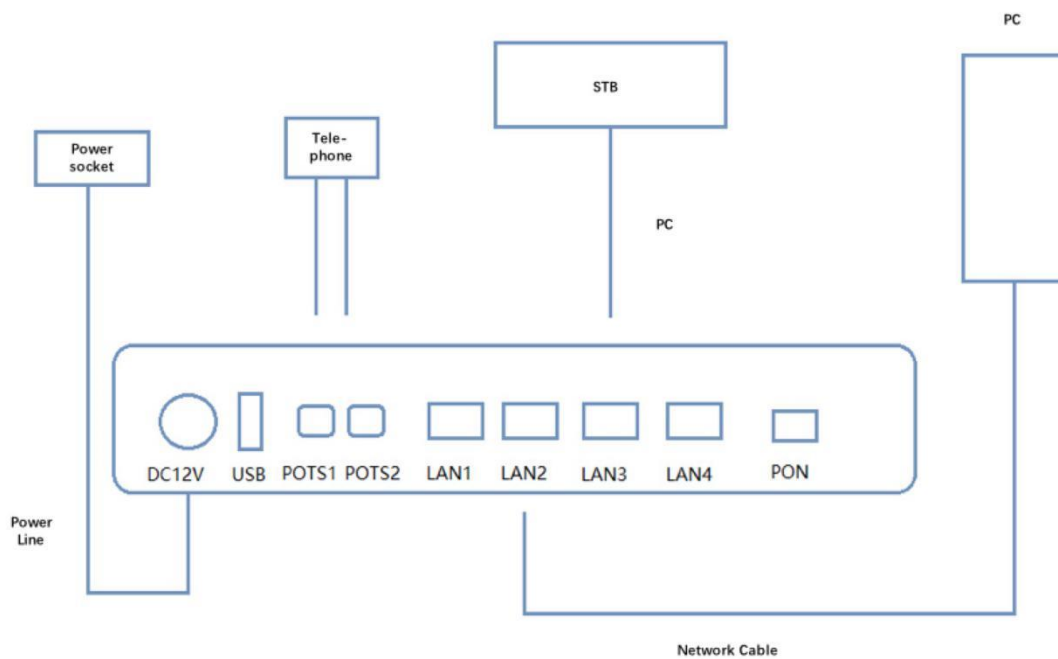
## Introduction

ASCENT's AP224B is a handy, flexible and standard device, with high integration, about connection to the net. It is a high-end multi-in-one terminal product up to IEEE802.11b/g/n standard, providing connection with high performance for home users and individual merchants.

Main Characteristics:

- Compliant with ITU-T G.984/988 standard, adopting GPON uplink set and monitored through WEB
- Remote configuration and management through TR069 protocol
- NAT and DHCP help to set the network and make internet access easy
- Firewall protection
- MAC and URL provide customization for Internet safety performance
- Terminal wireless access

## 1 Hardware Connection



## Connection finished, please check the indicators.

<b>POWER</b>	Power indicator	Green	ON: power on OFF: power off
<b>PON</b>	PON indicator	Green	ON: ONU activation OFF: no ONU activation Flickering: ONU activation on
<b>WLAN</b>	WLAN indicator	Green	ON: connected but no data transmission OFF: power off or no connection between port and net Flickering: data transmission
<b>LAN 1 to 4</b>	Ethernet indicators	Green	ON: connected but no data transmission OFF: power off or no connection to terminal device Flickering: data transmission
<b>POTS</b>	Voice indicator	Green	ON: connected but no data transmission OFF: power off or no connection to terminal device Flickering: data transmission.
<b>USB</b>	USB indicator	Green	ON: connected but no data transmission OFF: power off or no connection to terminal device Flickering: data transmission



### Note

If there is something wrong with the indicators, please check the line connections.



### Warning

Lay the devices on horizontally flat surface.

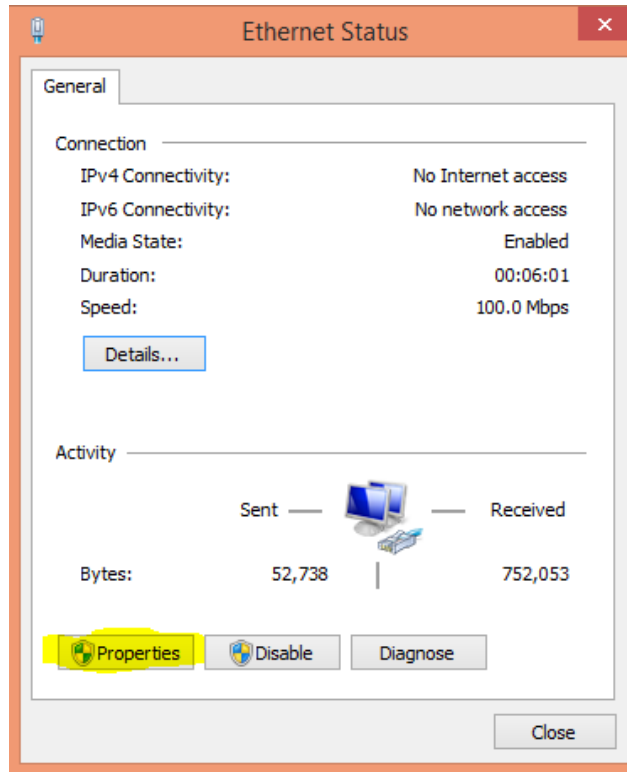
Shut down the power supply and unplug all line connections during a lightning storm.

Keep the device away from heaters and keep the ventilation.

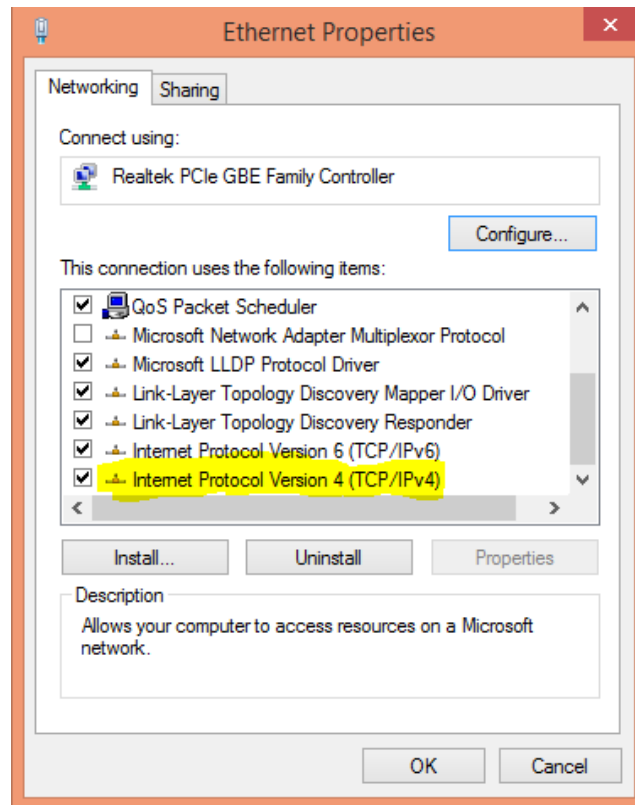
Use configured rated power adapter.

## 2 Computer Setup

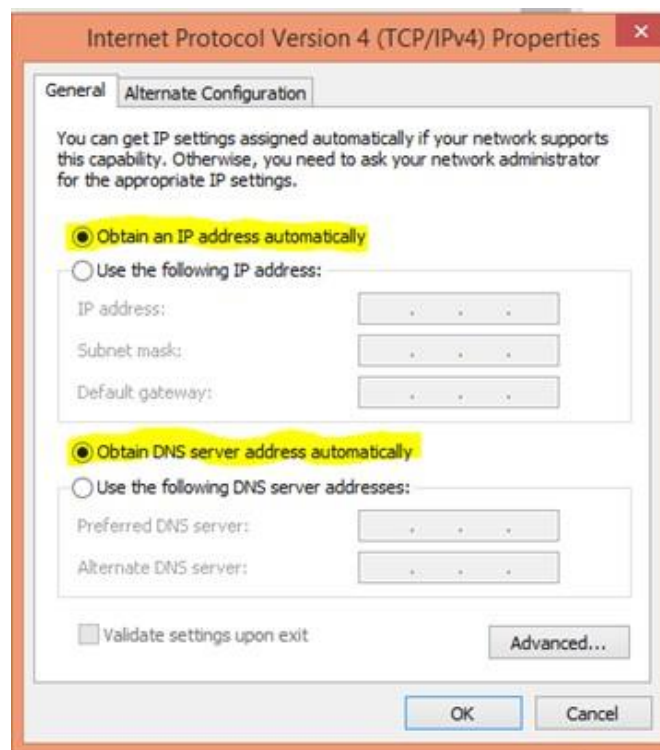
1) Click “Start → Control Panel → Network and Internet → Network and Sharing Center → Local Connection”, choose “Local Connection”, and “Properties”.



2) Double click “Internet Protocol Version 4 (TCP/IPv4)”



3) Choose “Obtain an IP address automatically” and “Obtain DNS server address automatically”, then click “OK”.



## 3 Guide Setup

1. Open Internet Explorer

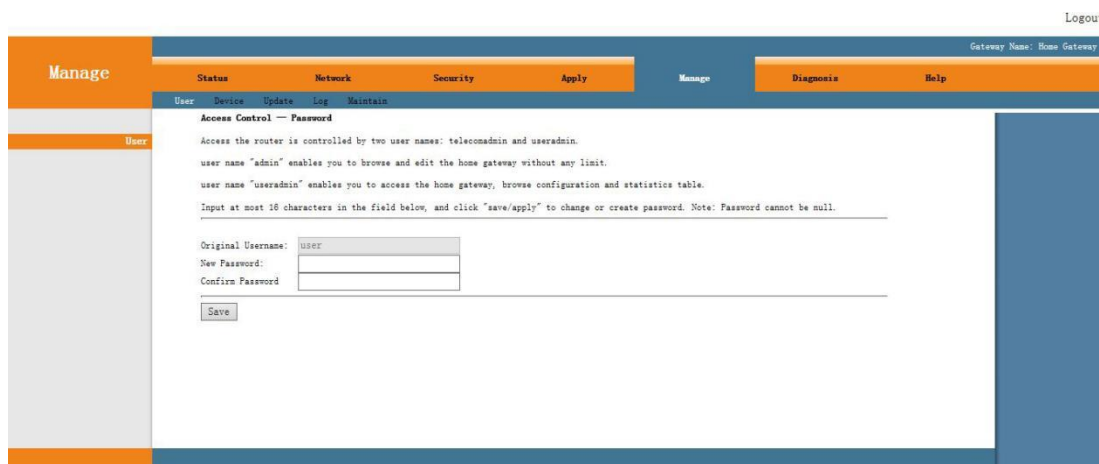


2. Type 10.0.0.10 in address bar, enter the web, and type UserName **“admin”** and Password **“super&123”** to log in to the interface.

UserName:

Password:

Do as the following steps if UserName and Password is modified.

The screenshot shows a web interface for managing a device. The top navigation bar includes 'Manage', 'Status', 'Network', 'Security', 'Apply', 'Manage', 'Diagnosis', and 'Help'. The 'Manage' section is active, and the 'User' tab is selected. The main content area is titled 'Access Control - Password' and contains instructions on how to change the password. It includes fields for 'Original Username' (set to 'user'), 'New Password', and 'Confirm Password', along with a 'Save' button. The interface is designed with a blue and orange color scheme.

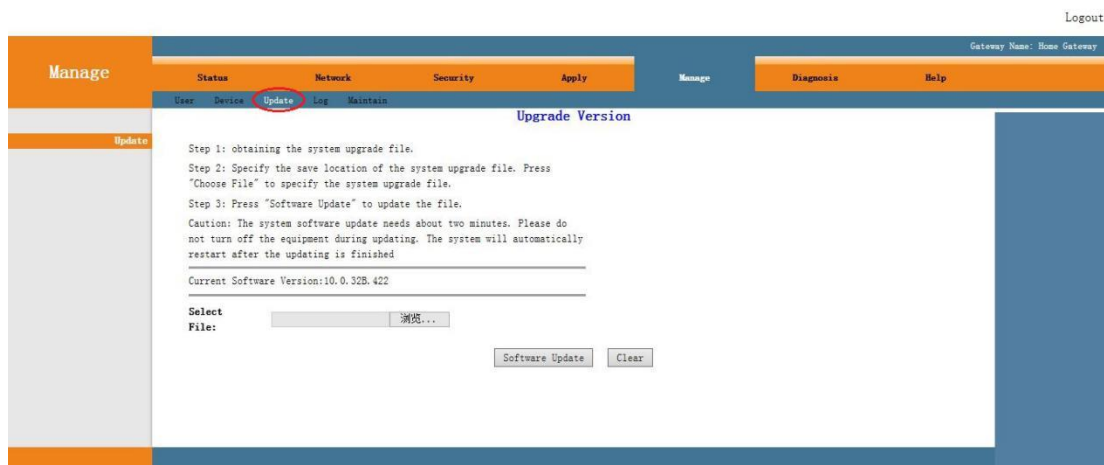
3. Device Management

- a. On the interface, click “Device Basic Info” under “Status” to see the basic information of the device.





- b. If you need to update the software, choose “Update” under “Manage”, as follows:



Select updated version and file, then click “Software Update” and enter “Software Update” to start.

#### 4. Device configuration:

- a. Under WAN, users can set “Mode”. Choose “Bridge”, “Service Mode” and “INTERNET”, select on binding port and save. Set the PC WLAN as “IP address received automatically” and “DNS service address received automatically”. The net works.

Logout

Gateway Name: Home Gateway

Network

Status

Network

Security

Apply

Manage

Diagnosis

Help

WAN

Binding

LAN

WLAN

Manage

Logic ID

QoS

Time

Route

Network Connect

Link Name:

1\_INTERNET\_B\_VID\_44

Mode :

Bridge

IP Protocol Version:

Ipv4

Enable Vlan:

☒

Default Vlan ID:

44

Binding Uni Vlan:

No Binding Uni Vlan

802.1p:

(NULL)

MTU:

1492

Service Mode:

INTERNET

Disable LAN DHCP:

☐

Binding Port:

☒ Port\_1

☒ Port\_2

☐ Port\_3

☐ Port\_4

☐ Wireless (SSID):

Note: WAN connection cannot share the binding port, at last WAN connection of the binding port will overlap the port binding of other WAN connection!

b. Logic ID:

If LOID was set, LOID info should be configured on ONU. Please click “Logic ID” to log. As follows:

Logout

Gateway Name: Home Gateway

Network

Status

Network

Security

Apply

Manage

Diagnosis

Help

WAN

Binding

LAN

WLAN

Manage

Logic ID

QoS

Time

Route

Logic ID

Logic ID Setting

Logic ID function is used for registering and issuing of the new device, please do not edit it. Editing the logic ID and causing the abnormality, you will have to reboot it.

Logic ID:

123456

Password:

\*\*\*\*\*

Ok

Reset

Input logic ID and Password, and then click “OK”.

Logout

Gateway Name: Home Gateway

Network

Status

Network

Security

Apply

Manage

Diagnosis

Help

WAN

Binding

LAN

WLAN

Manage

Logic ID

QoS

Time

Route

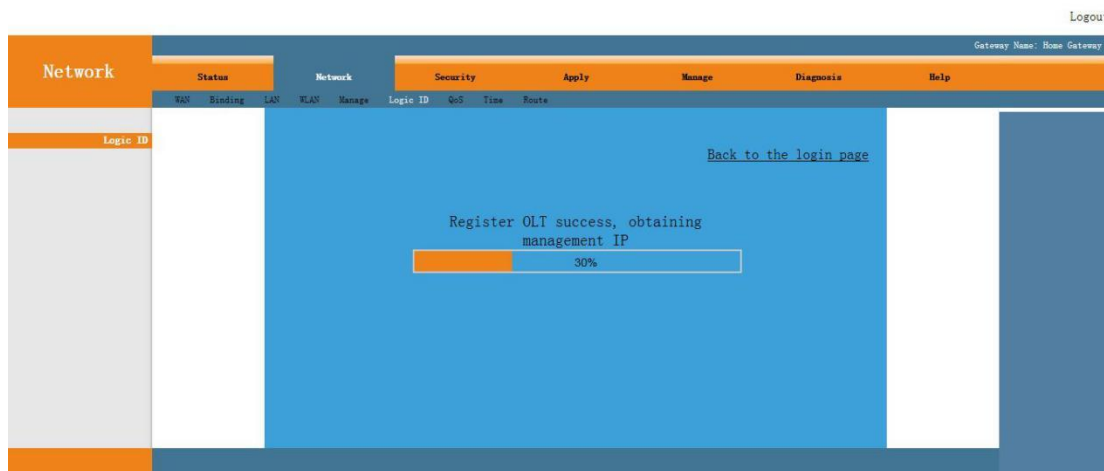
Logic ID

Back to the login page

Registering OLT

20%

The interface is shown as follows:



## Reset

When Username and Password logging in the router are forgotten, please reset the router.

How to reset: with power on, use a toothpick or paperclip to press “RESET” for 10 seconds until the device restarts.



## Note

After restoration, reset the router.

### c. VOIP Configuration

Mode: Route; IP Protocol Version: Static; Service Mode: VOICE

Status	Internet	Security	AP
Bandwidth Configure	Binding Configure	LAN Address Configure	WLAN Co
Link Name :	1_VOICE_R_VID_100		
Mode :	Route		
IP Protocol Version:	Ipv4		
<input type="radio"/> DHCP	Auto-obtain an address from ISP		
<input checked="" type="radio"/> Static	Configure a static address from ISP		
<input type="radio"/> PPPoE	Select this option with PPPOE		
Enable Vlan :	<input checked="" type="checkbox"/>		
Default Vlan ID :	100		
Binding Uni Vlan :	No Binding Uni Vlan		
802.1p :	(NULL)		
MTU :	1500		
IP address :	90.0.0.85		
Subnet Mask :	255.255.255.0		
Default Gateway :	90.0.0.1		
Request DNS:	<input type="radio"/> Enable		
	<input checked="" type="radio"/> Disable		
Primary DNS:	90.0.0.1		
Secondary DNS:			
Service Mode:	VOICE		
Disable LAN DHCP :	<input type="checkbox"/>		

Click “Application” -- “VoIP Configure”, see the figure.

Status	Internet	Security	Application	Management
<a href="#">DDNS Configure</a> <a href="#">Advance NAT Configure</a> <a href="#">UPNP Configure</a> <a href="#">VoIP Configure</a> <a href="#">IGMP Configure</a> <a href="#">MLD Configure</a>				
Audio Protocol <span>Soft Switch SIP ▼</span>				
<b>Primary SIP Proxy</b>				
Enable Subscribe			<input type="checkbox"/>	
Address:			90.0.0.100	
Port Number:			5060	
Enable Outbound Proxy			<input type="checkbox"/>	
Outbound Proxy Address:				
Outbound Proxy Port Number:			5060	
SIP Domain Name:				
Registration Period of Validity (Second):			3600	
Enable Session Update			<input checked="" type="checkbox"/>	
Session Update Period (second):			1800	
<b>Secondary SIP Proxy</b>				
Enable Secondary SIP			<input type="checkbox"/>	
Enable Subscribe			<input type="checkbox"/>	
Address:				
Port Number:			5060	
Enable Outbound Proxy			<input type="checkbox"/>	
Outbound Proxy Address:				
Outbound Proxy Port Number:			5060	
SIP Domain Name:				
Registration Period of Validity (Second):			3600	
Enable Session Update			<input checked="" type="checkbox"/>	

Click “Application” to see the VOIP Information

Status	Internet	Security	Application	Management	Diagnosis	Help
Device Information	Network Information	User Information	VOIP Information	Remote Management Status		
<b>Broadband Audio Information</b>						
Service Registration Status	Port Registration Success			Port Registration Success		
Cause Of Registration Failure						
Telephone Number	109			108		

## Troubleshooting

5. The computer can see wireless signals but cannot be connected.
  - a. Please make sure the connected wireless name is in accordance with the SSID of the wireless router.
  - b. Check the signal strength of the wireless signal, adapt the location of the router if necessary.
  - c. Refresh the networks list and reconnect the wireless.
  - d. Consult manufacturers of the laptop or WLAN card, then connect WLAN based on

acknowledged parameters.

- e. Restart the computer.

If it still does not work, please restore the router and reset it to connect.

- 6. No wireless signals received.

- a. Please ensure WLAN switch is on.
- b. Check WLAN driver is installed successfully or not; if not, reinstall it.
- c. Check wireless functions of the router is ready with SSID Broadcast permission or not.
- d. Check the service is on or not. Here are the steps with Windows 7: right-click "my computer", choose "manage". In management, choose "service and application" and unfold "service" to find "WLAN AutoConfig". Make sure it is on.
- e. Try to get closer to the router. If it still does not work, try to connect any other wifi; if not, restore the router and reset.



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