



AP604 GPON PoE ONT

**Quick Reference
Guide**

Revision A

ACT AP604 GPON PoE ONT

Quick Reference Guide

ACT Document Number: ACT AP604 GPON PoE ONT QRG

Quick Reference Guide Revision A

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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 | 06/29/2020 | Initial release |

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Introduction

ACT AP604 GPON ONU is a series of ITU-T GPON compliant high performance GPON PoE ONTs. It offers MSOs and Services Providers with advanced triple play (high speed internet, VOIP and IPTV) services in Fibre to The Home or Business (FTTH & FTTB) networks.

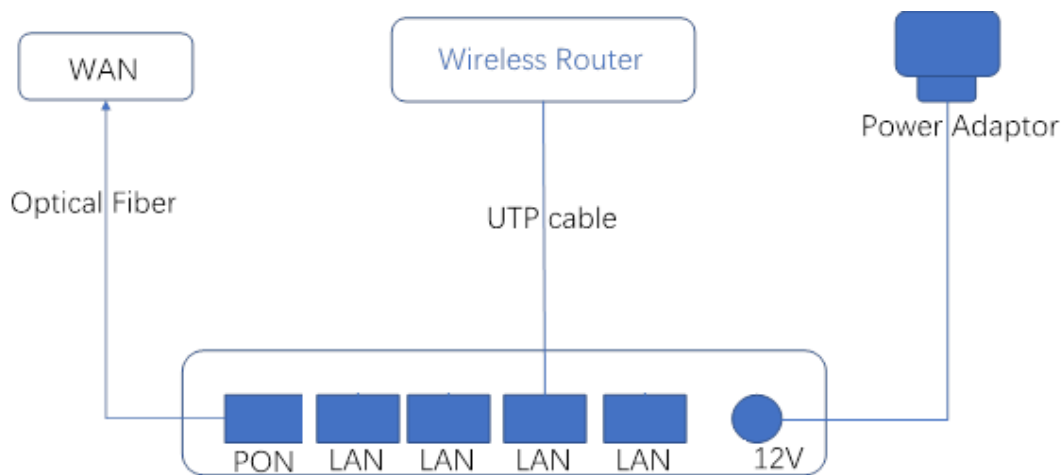
The AP604 series ONUs are designed to operate in a shared PON fiber architecture and provides users with 10/100M/1000bps Gigabit Ethernet access. With its compact design and ease of installation, the AP604 GPON ONT provides a cost-effective way of supporting a full bandwidth connection for consumer-side Ethernet.

The AP604 series is easy to install, activate, and maintain. It supports comprehensive OAM functions for remote management. Combined with Ascent Standard based GPON OLT platform, the AP604 can provide the ultimate end-to-end FTTX solution in offering advanced video, voice, and data services.

Key Features

- Compliant with ITU-T G.984/G.988
- Supports auto-discovery and auto-register (real-time operation)
- Supports DBA and multiple types SLA
- Supports IEEE802.1D RSTP
- Supports IGMP snooping V2 multi-broadcast function
- Supports EMI and ESD identification
- Supports VLAN
- Supports user end auto time synchronization based on SNTP
- Supports powerful OAM and remote management
- Supports port speed limit, loop detection and port VLAN
- Supports state detection and fault location
- Supports power failure alarm
- Each PoE port supports auto-discovery the standard power receiving devices
- Supports IEEE802.3af 15.4W and IEEE802.3at 30W PoE standards

1. Hardware Connection



After connecting, check the status of the indicators.

| LED | Indicator | Color | Description |
|--------|----------------|-------|--|
| PWR | Power | Green | On: Power is on Off: Power is off |
| SYS | System | Green | Blinking: System is normal On/Off: System is abnormal |
| LINK | PON login | Green | Off: Receiving optical power is too low or no optical reception On: Normal Flickering: Logging in |
| LOS | Optical signal | Red | Off: ONU receiving optical power is normal Flickering: ONU receiving optical power is lower than the sensibility of receiver |
| LAN1-4 | Ethernet | Green | Off: No power or no terminal devices are connected at ports On: Ports are connected without data transmission Flicker: Data is being transmitted |
| POE1-4 | POE | Green | Off: No PD device is connected On: The PD device has been connected and is normally powered Blinking: The PD device has been connected and is in power negotiation |



Note

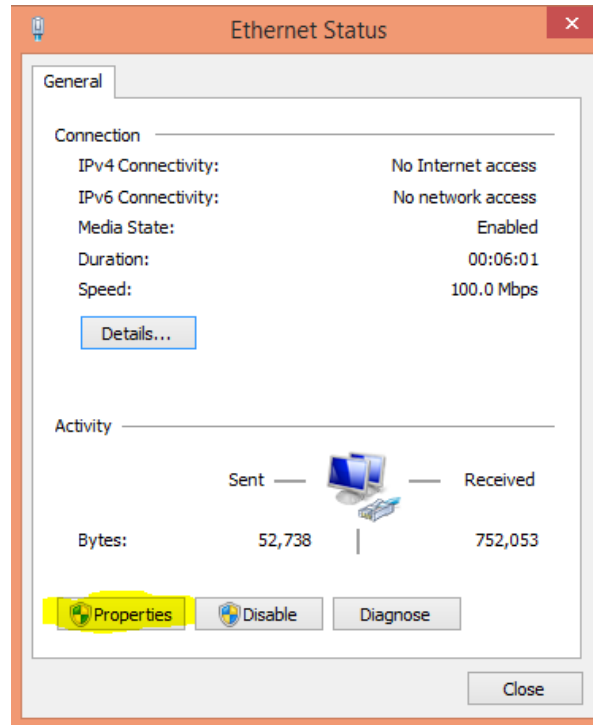
Check the connection to see if the indicator statuses are abnormal.

Warnings:

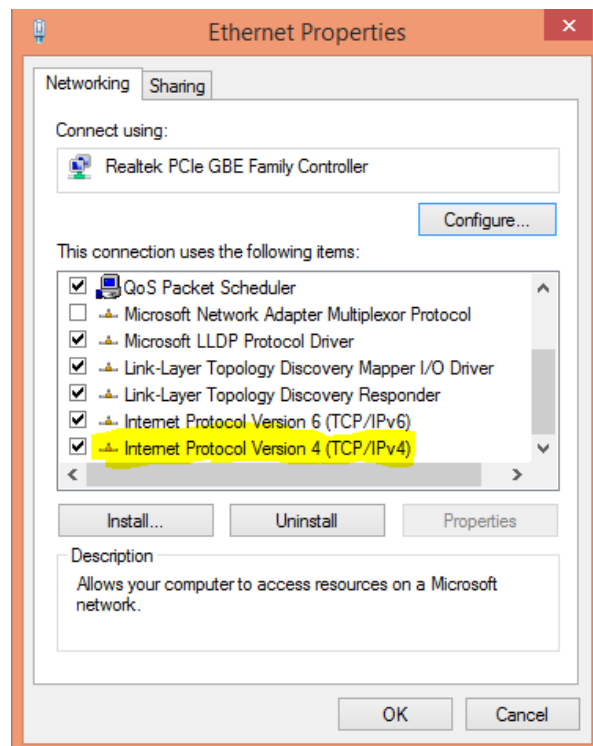
- Lay the device on a smooth surface.
- Remove the power supply and all links during a thunderstorm.
- Keep the device away from heating devices in a ventilated area.
- Use a configured rated power adaptor.

2. Computer Settings

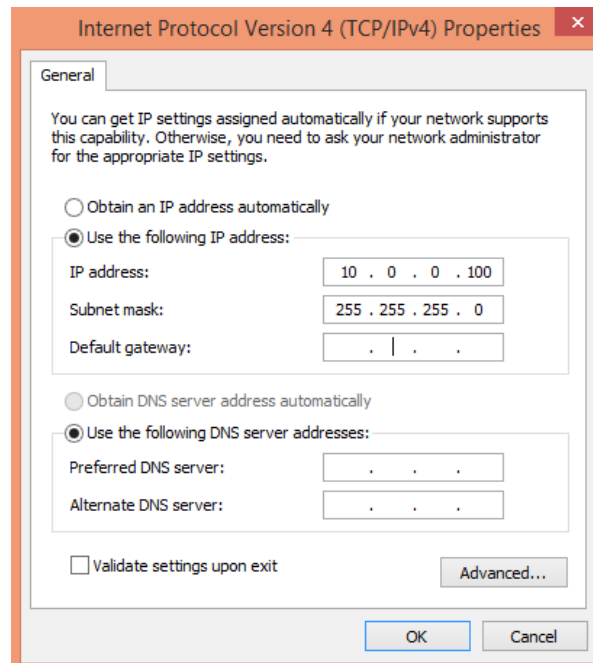
1. Click Start → Control Panel → Network and Internet → Network and Sharing Center → Ethernet Status. Open **Ethernet Status**, and click on **Properties**.



2. Double-click Internet Protocol Version 4 (TCP/IPv4).



- Click on **Properties**. Select the following IP address. Configure the same address (10.0.0.100) as the ONU segment, subnet mask 255.255.255.0.



3. Guideline Settings

- Open **Internet Explorer**



- Input **10.0.0.10** into the address field to enter the interface. Input Username: **user** and Password: **123456** to log in (UserName and Password are case-sensitive). Click **OK** to enable Web settings. It is recommended to change the default password once you've logged in.



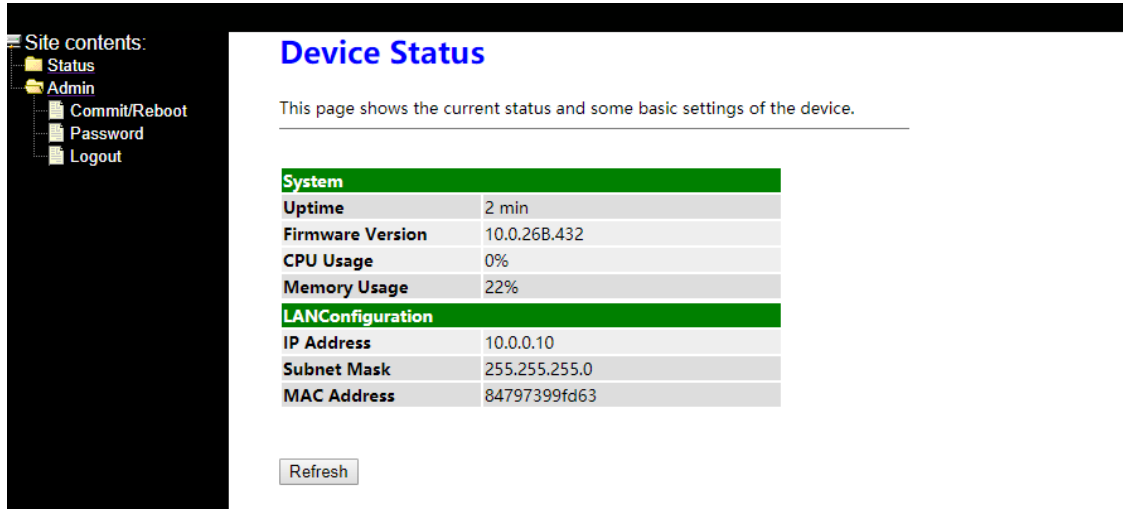
Input username and password

UserName:

Password:

4. Device Status

1. Enable the ONU interface, and click Status and device to check the basic information of the device.

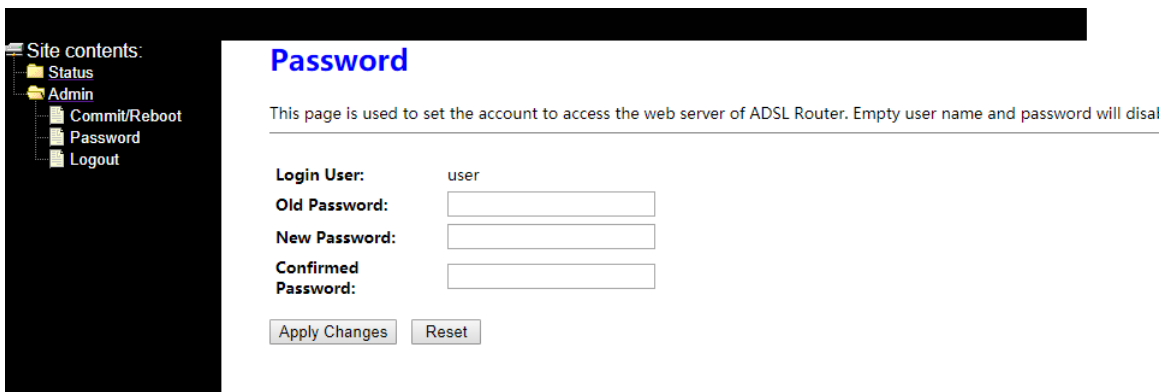


The screenshot shows the 'Device Status' page. On the left is a sidebar with 'Site contents:' including Status, Admin, Commit/Reboot, Password, and Logout. The main content area has the title 'Device Status' and a description: 'This page shows the current status and some basic settings of the device.' Below this are two tables. The first table, titled 'System', shows Uptime (2 min), Firmware Version (10.0.268.432), CPU Usage (0%), and Memory Usage (22%). The second table, titled 'LANConfiguration', shows IP Address (10.0.0.10), Subnet Mask (255.255.255.0), and MAC Address (84797399fd63). A 'Refresh' button is at the bottom.

| System | |
|------------------|--------------|
| Uptime | 2 min |
| Firmware Version | 10.0.268.432 |
| CPU Usage | 0% |
| Memory Usage | 22% |

| LANConfiguration | |
|------------------|---------------|
| IP Address | 10.0.0.10 |
| Subnet Mask | 255.255.255.0 |
| MAC Address | 84797399fd63 |

- 2 Click Admin and Password. You can set a new user and password for the WEB interface. Click **Apply Changes**.



The screenshot shows the 'Password' page. The sidebar is the same as the previous screenshot. The main content area has the title 'Password' and a description: 'This page is used to set the account to access the web server of ADSL Router. Empty user name and password will disal'. Below this are four input fields: 'Login User:' (with 'user' entered), 'Old Password:', 'New Password:', and 'Confirmed Password:'. At the bottom are 'Apply Changes' and 'Reset' buttons.

Reset:

If you forget the user name and password to log in to the ONU interface, you should reset the ONU:

While power is supplied, use a toothpick or paperclip to press the RESET button for 10 seconds. After restarting, the router will recover factory settings.



Note

The current settings of the ONU will be reset after it recovers factory settings.



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