ASCENT Communication Technology

AP604 GPON PoE ONT

Quick Reference Guide

Revision A

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ACT Document Number: ACT AP604 GPON PoE ONT QRG

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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.

For more information, contact ACT: support@ascentcomtec.com

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.

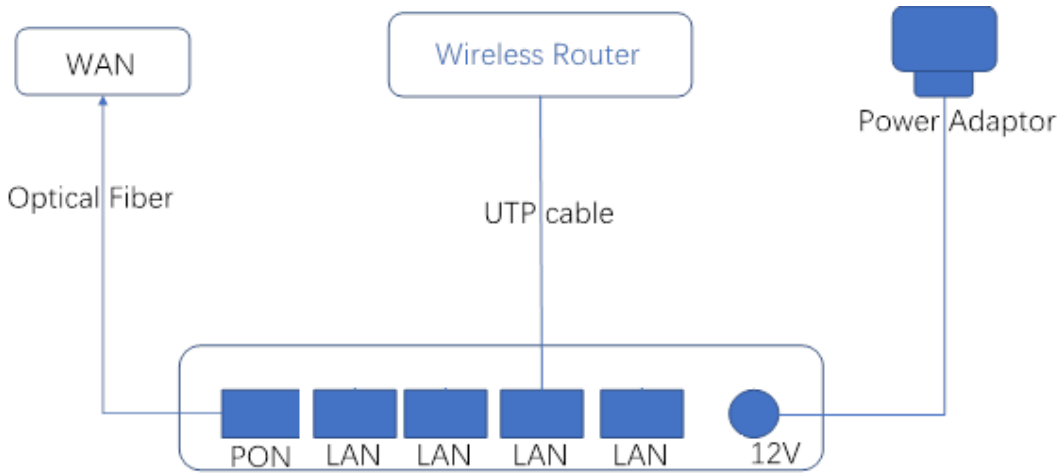
The AP604 series ONUs are designed to operate in a shared PON fiber architecture and provides users with 10/100M/1000bps Gigabit Ethernet access. With its compact design and ease of installation, the AP604 GPON ONT provides a cost-effective way of supporting a full bandwidth connection for consumer-side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

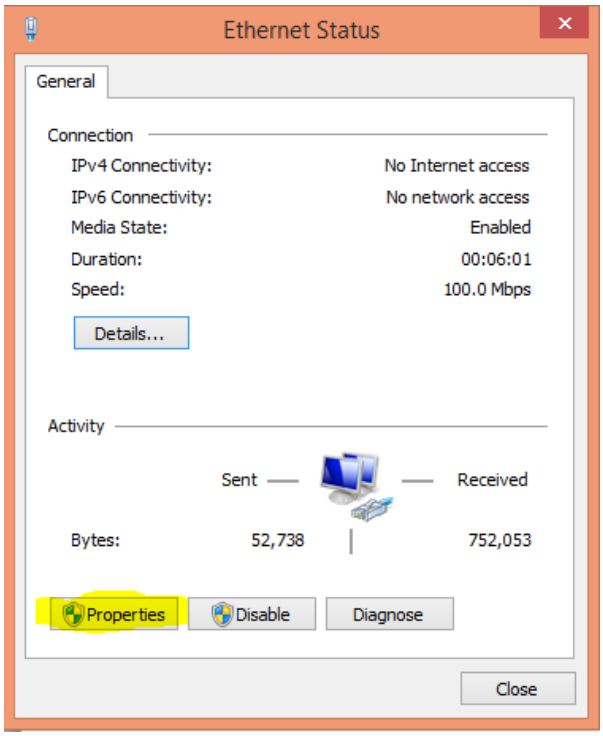
Check the connection to see if the indicator statuses are abnormal.

Warnings:

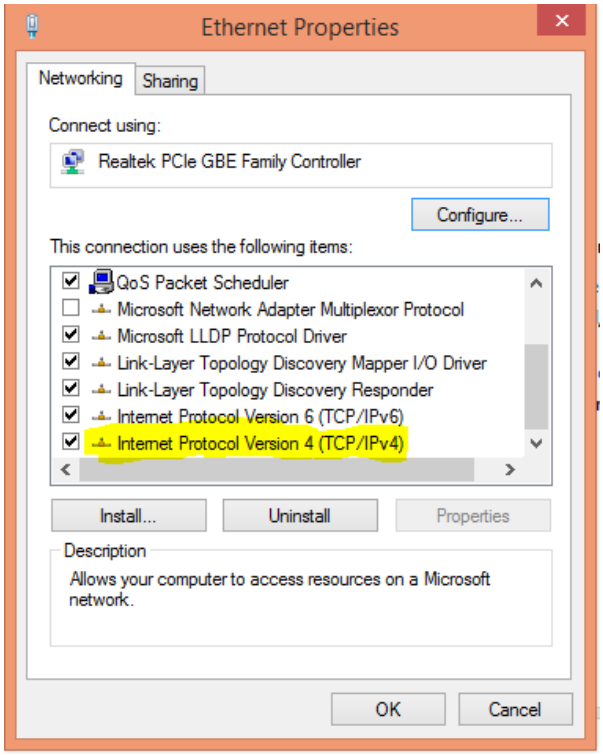
- Lay the device on a smooth surface.
- Remove the power supply and all links during a thunderstorm.
- Keep the device away from heating devices in a ventilated area.
- Use a configured rated power adapter.

2. Computer Settings

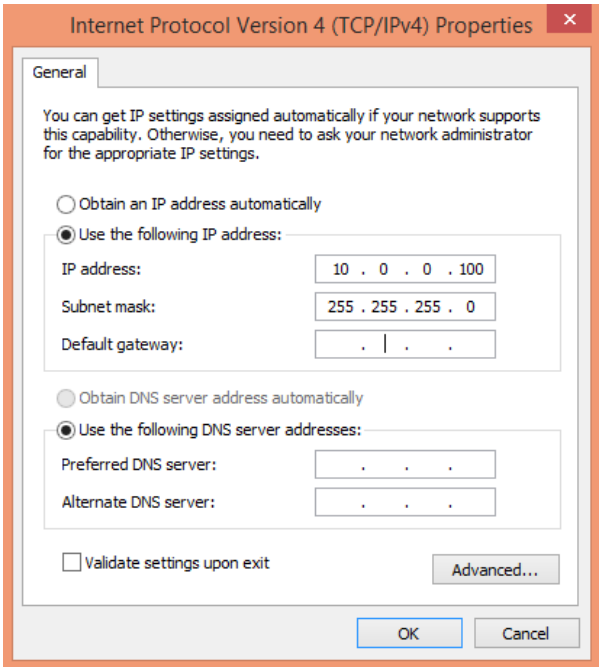
1. Click Start→ Control Panel → Network and Internet→ Network and Sharing Center→ Ethernet Status. Open **Ethernet Status**, and click on **Properties**.



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



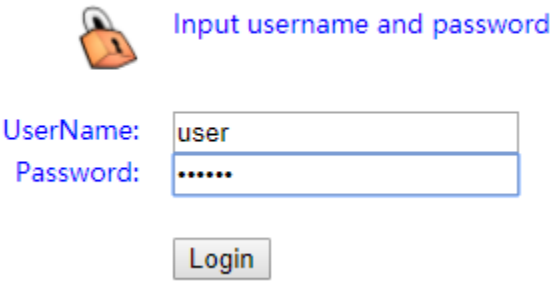
3. Click on **Properties**. Select the following IP address. Configure the same address (10.0.0.100) as the ONU segment, subnet mask 255.255.255.0.



3. Guideline Settings

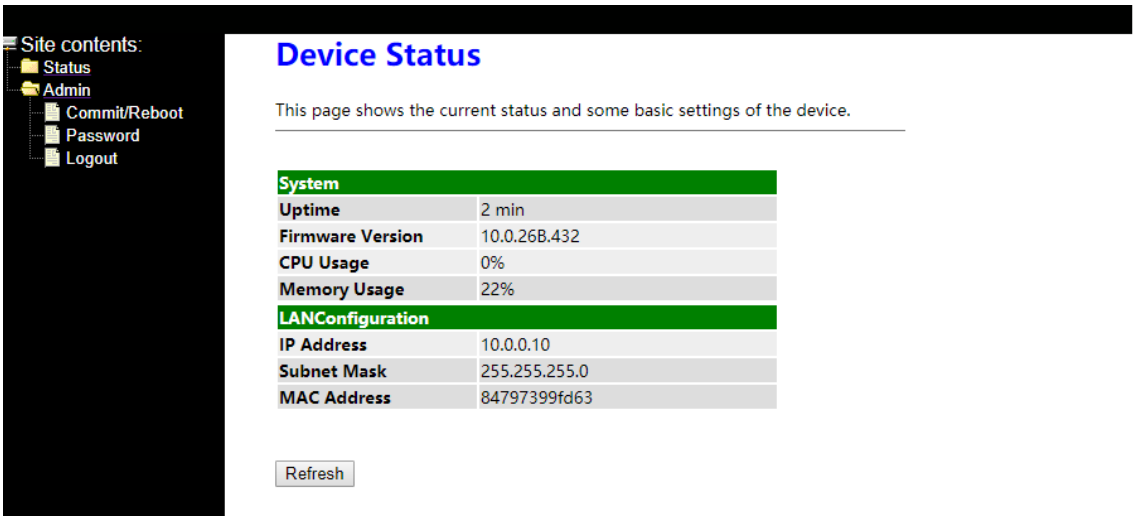
1. Open **Internet Explorer**

2. 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.

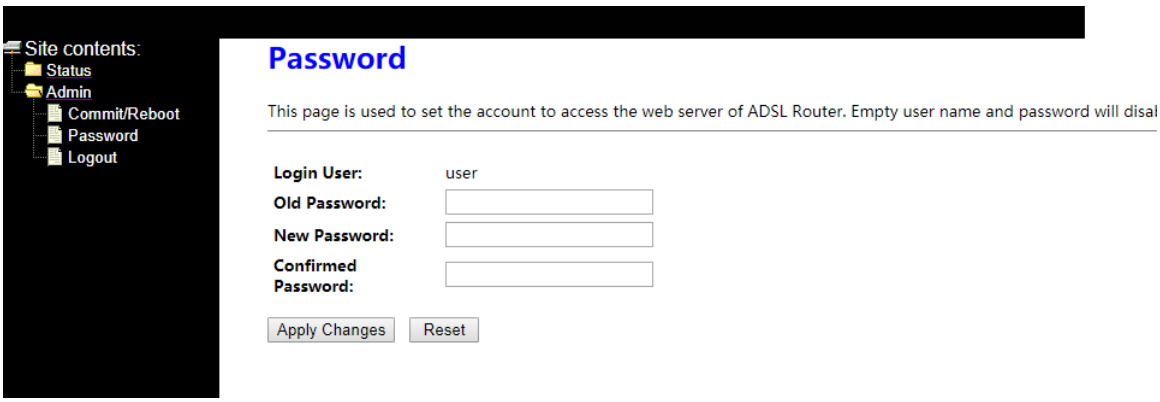


4. Device Status

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



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



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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Specifications and product availability are subject to change without notice.

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