

4 GE PoE GPON ONT

AP600 Series

- **Compliant with ITU-T G.984/G.988**
- **Supports auto-discovery and auto-register**
- **Supports IEEE802.1D RSTP**
- **Supports IGMP snooping V2**
- **Supports EMI and ESD identification**
- **Supports VLAN**
- **Auto time synchronization based on SNTP**
- **Remote management**
- **Power failure alarm**
- **Supports IEEE802.3af and IEEE802.3at 30W PoE**



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.

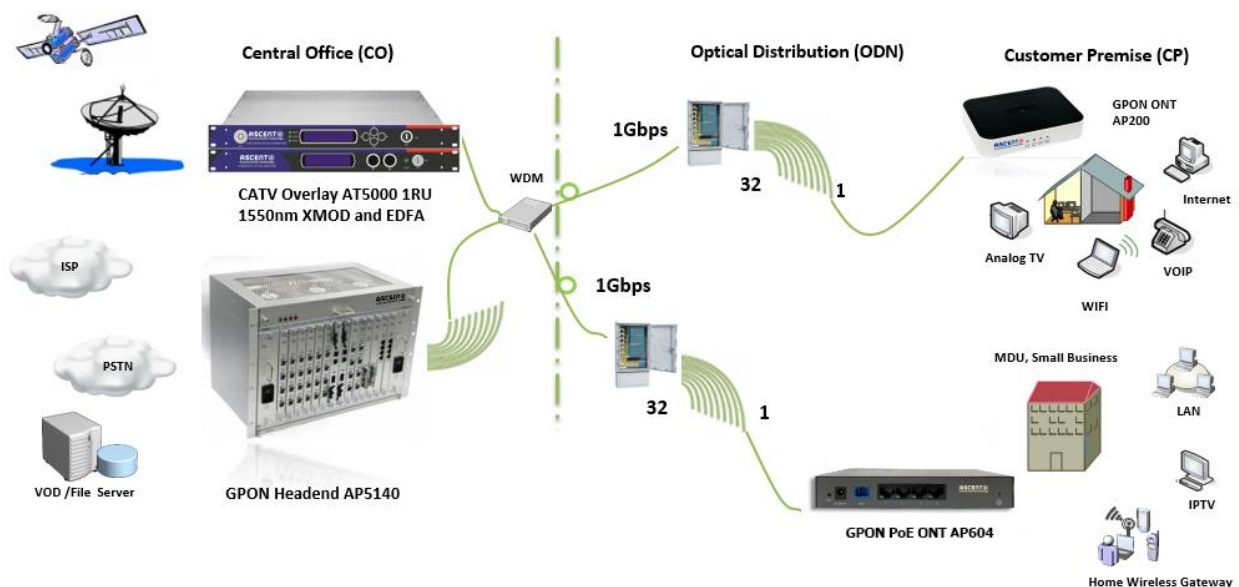
The AP604 series ONUs are designed to operate in a shared PON fiber architecture and provides users with 10/100M/1000bps Gigabit Ethernet access. With its compact design and ease of installation, the AP604 GPON ONT provides a cost-effective way of supporting a full bandwidth connection for consumer-side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

Application Diagram



Specifications

Item	Description
Wavelength	TX: 1310 nm RX: 1490 nm
Optical Power	-1 dBm to +4 dBm
Receiving Sensitivity	-25 dBm
Max Transmission Distance	20 km
Space of Buffer Storage	1.25 MB
MTBF	100, 000 hours
PON Connector	SC/PC
PON Trait	Supports IEEE802.3ah Supports Dynamic Bandwidth Allocation (DBA) Supports ONU auto-searching and automatic registration (real-time operation)
Standards and Protocols	Supports IEEE802.3, IEEE802.3u IGMP Snooping V2 Supports IEEE802.1q WLAN Supports IEEE802.1p QOS
POE	Supplying power port: 4 ports Standards: IEEE802.3af 15.4W, IEEE802.3at 30W Working modes: auto-discover and power/depower receiving power device
Network Management	Cooperates with center OLT, implements management configurations and software upgrades to ONU
Environmental Parameters	
Power Supply	48 V _{DC} (external)
Power Consumption	4.5 W, max. POE supplying power: 120 W
Operating Temperature	-20 °C to +70 °C
Storage Temperature	-40 °C to +85 °C
Humidity	5 % to 90 % non-condensing
Dimensions (H×W×D)	28 mm × 170 mm × 98 mm (external)
Weight	0.43 kg

Ordering Information

Product Name	Product Description
AP604-GE-GE-P-S-1-AC	4×10/100/1000M Ethernet interface, 1×GPON interface, black metal casing, external power supply adapter, with 802.3af PoE PSE

Contact Information



Ascent Communication Technology Ltd

AUSTRALIA

140 William Street, Melbourne
Victoria 3000, AUSTRALIA
Phone: +61-3-8691 2902

CHINA

Unit 1933, 600 Luban Road
200023, Shanghai CHINA
Phone: +86-21-60232616

EUROPE

Pfarrer-Bensheimer-Strasse 7a
55129 Mainz, GERMANY
Phone: +49 (0) 6136 926 3246

HONG KONG SAR

Unit 9, 12th Floor, Wing Tuck Commercial Centre
177 Wing Lok Street, Sheung Wan, HONG KONG
Phone: +852-2851 4722

USA

2710 Thomes Ave
Cheyenne, WY 82001, USA
Phone: +1-203 816 5188

VIETNAM

15 /F TTC Building, Duy Tan Street
Cau Giay Dist., Hanoi, VIETNAM
Phone: +84 243 795 5917

WEB: www.ascentcomtec.com

EMAIL: sales@ascentcomtec.com

Specifications and product availability are subject to change without notice.
Copyright © 2020 Ascent Communication Technology Limited. All rights reserved.
Ver. ACT_AP604_GPON_PoE_ONT_Datasheet_V1a_Jun_2020