

## FTTH GPON ONT 4GE SFU

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### AP204D Series

- ITU-T G.984 compliant
- 2.5 GPON WAN
- Layer 2 SFU
- Dynamic Bandwidth Allocation (DBA)
- Supports multicast VLAN
- Cyber storm control
- Remote management through OMCI
- Remote loopback and network status diagnosis

ACT AP200D ONT is a series of ITU-T GPON compliant high-performance GPON optical residential terminal units. It provides MSOs and services providers with advanced high-speed internet, IP video, and other data services for Fibre to the Home or Business (FTTH & FTTB) networks.

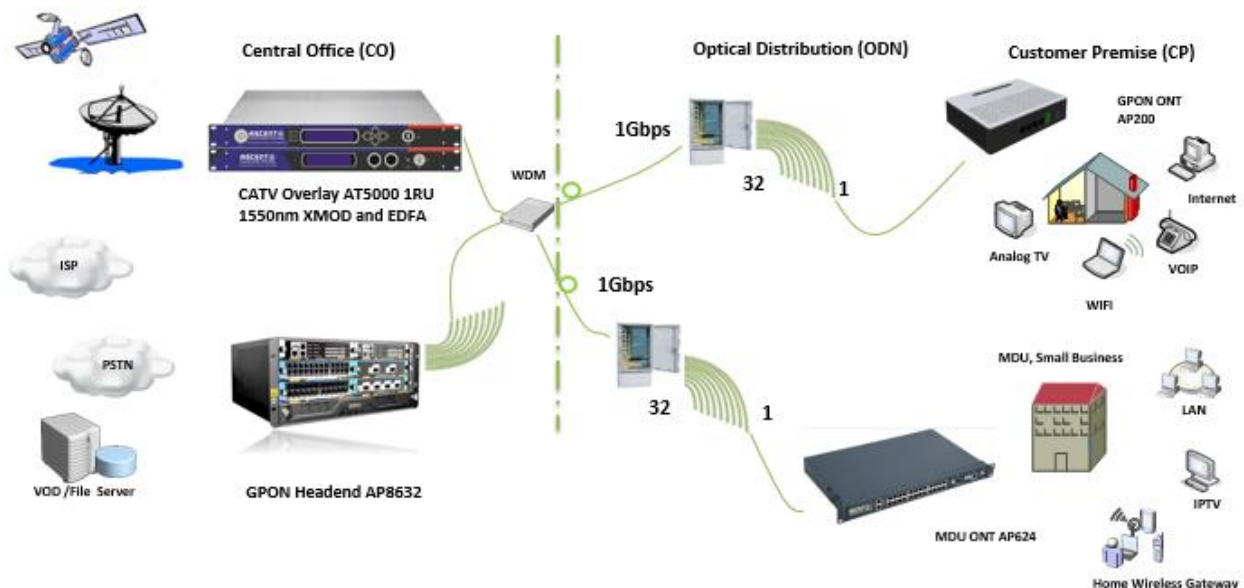
The AP200D series ONUs are designed to operate in a shared PON fiber architecture and supports up to 64 homes under one PON OLT port. It includes 4 basic GbE ports with options to offer CATV RF, VoIP, and WIFI services.

The AP200D series is easy to install, activate, and maintain with OMCI and TR-069 standards. It provides high-quality and robust services to allow operators to quickly expand their existing networks and services. Combined with a standards-based GPON OLT platform, the AP200D series can provide the ultimate end-to-end FTTX solution in offering advanced video, voice, and data services.

## Key Features

- Integrated GPON port, conforms to ITU-T G.984 standard.
- Adopts PTMP (point to multipoint) network topology, collects and distributes scattered Ethernet services effectively, provides 10/100/1000M RJ45 network interface, smoothly updates existing networks.
- The Dynamic Bandwidth Allocation (DBA) mechanism enables all users to reasonably share the bandwidth, guarantees QoS.
- Supports IGMP multicast, makes effective use of bandwidth.
- Supports multicast VLAN.
- Supports OMCI management protocol including configuration, alarm, performance monitor, fault isolation, security management, etc. Supports remote management through OLT.
- Supports FEC and DBA.
- Supports IEEE802.1Q VLAN protocol.
- Supports IEEE802.1p protocol.
- Supports remote loopback and network status diagnosis.
- Supports cyber storm control.

## Application Diagram



## Specifications

|                              |   |
|------------------------------|---|
| <b>Model</b>                 | <b>AP204D</b>   |
| <b>User Interface</b>        | 1 × 10/100/1000M RJ45   |
| <b>PON</b>                   |   |
| Transmission Speed           | Upstream: 1.25 Gbps<br>Downstream: 2.5 Gbps   |
| Network Coverage Radius      | 20 km   |
| Optical Receiver Sensitivity | ≥-28 dBm  |
| Luminous Power               | >0 dBm  |
| Security                     | ONU authentication mechanism  |
| <b>Protocol</b>              | Compliant with IEEE 802.3ah<br>YD/T 1475-2006<br>IEEE 802.1D, Spanning Tree<br>IEEE 802.1Q, VLAN<br>IEEE 802.1b/g/n<br>IEEE 802.1w, RSTP<br>IEEE 802.3ad (LACP)<br>Ethernet-II, Ethernet-SNAP |
| <b>VLAN</b>                  | Port-based VLAN<br>GVRP<br>IEEE 802.1Q VLAN   |
| <b>QoS</b>                   | Backpressure flow control (half-duplex)<br>IEEE 802.3x flow control (full-duplex)<br>Prevent head of line<br>WR, SP queue scheduling algorithm<br>Port rate limit                             |
| <b>Security</b>              | IEEE 802.1x, access control based on port; supports local and remote RADIUS<br>CHAP, EAP certification<br>Storm control, port protection  |
| <b>Management</b>            | Supports various management modes such as Web, TELNET<br>Supports debug function  |
| <b>Environment</b>           |   |
| Operating Temperature        | 0 °C to 60 °C   |
| Storage temperature:         | -40 °C to 80 °C   |
| Operating humidity:          | 10 % to 85 % (non-condensing)   |
| Storage humidity             | 5 % to 95 % (non-condensing)  |
| <b>Power Supply</b>          | Input AC: 110 to 240V<br>Output DC: 12V/0.5A  |
| <b>Power Consumption</b>     | 2.5W  |

## Ordering Information

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| Model              | Description   |
|--------------------|---|
| AP204D-GE-00-0-S-2 | AP204D GPON CPE, 2.5G downstream and 1.25G upstream GPON interface, 4 × GE data interface, single-fiber, SC/PC, power supply included |

## Contact Information

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