

8-Port High-Density Rack-Mounted GPON OLT

AP8608D Series

- **Compliant with ITU-T G.984/G.988**
- **Supports OMCI remote management for ONT/ONU**
- **Compatible with ITU-T G.984.4/G.988 OMCI protocol**
- **1U height 8PON OLT**
- **Layer 2 switching function**
- **QoS guarantee**
- **Easy-to-use management system**



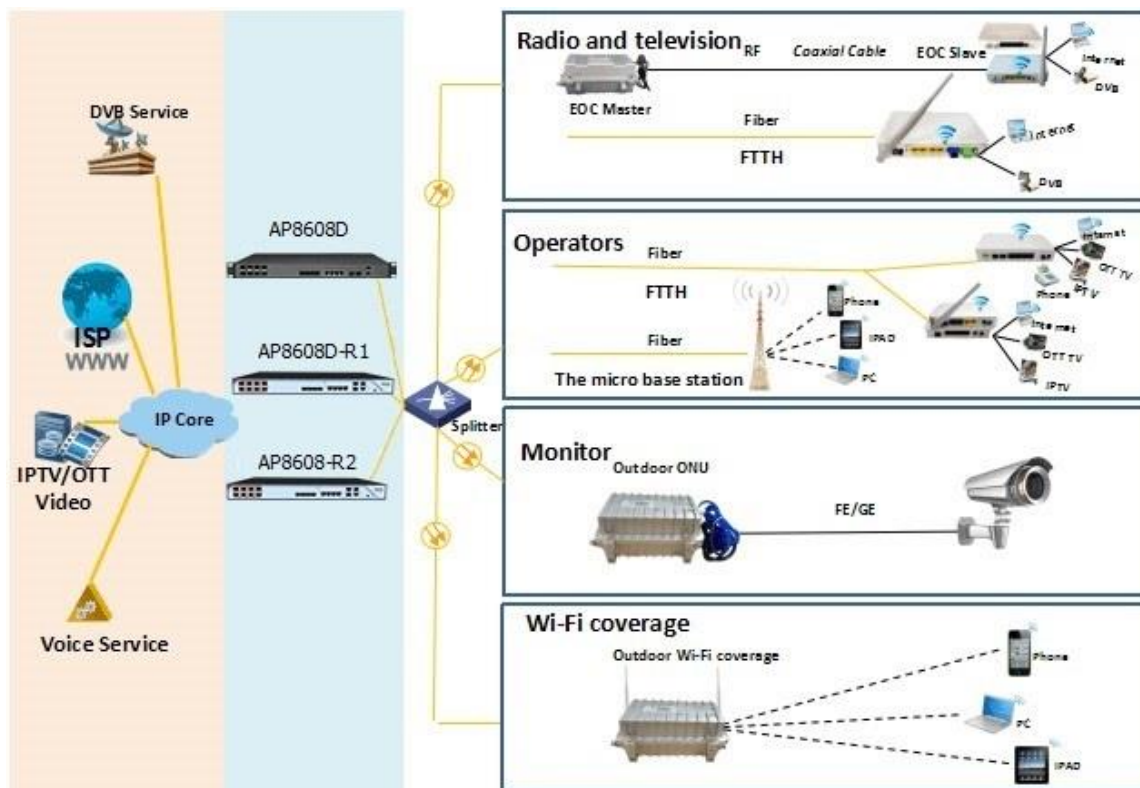
Ascent's AP8608D GPON OLT meets ITU G.984.x and FSAN standards, and is a 1U rack-mounted device with 1 × USB interface, 4 × uplink GE ports, 4 × uplink optical ports, 2 × 10-gigabit uplink ports and 8 × GPON ports. Each GPON port supports a splitting ratio of 1:128 and provides downstream bandwidth of 2.5G bps and upstream bandwidth of 1.25 Gbps. The system can support up to 1024 GPON terminals. AP8608D features strong device performance in a compact size suitable for server rooms. It is convenient and flexible to use, and is easy to deploy as well.

AP8608D GPON OLT meets the requirements of promoting network performance, improving reliability, and reducing power consumption for access networks and enterprise networks and is also suitable for three-in-one broadcast television networks, FTTP (Fiber to the premise) applications, video monitoring networks, enterprise LANs (Local Area Networks), Internet of Things applications, and other network applications with a very high price/performance ratio.

Key Features

- Meets ITU-T G.984/G.988 standards
- Supports OMCI remote management for ONT/ONU
- Compatible with ITU-T G.984.4/G.988 OMCI protocol
- 1U height 8PON OLT
- Compact design
- Layer 2 switching function
- QoS guarantee
- Easy-to-use management system

Application Diagram



Specifications

Item	Description
Management Rack	
Type	1U 19-inch standard box
Slot	2 × power module slots
Uplink Port	
COMBO Port	4 × 10/100/1000M auto-negotiation Ethernet ports 4 × SFP interfaces
10-Gigabit	2 SFP+ interfaces
PON Port	
Quantity	8
Physical Interface	SFP slot
Interface Type	ITU-TG.984.2 Class B+/Class C+
Max Splitting Ratio	1:128
Management Port	1 × 100/1000BASE-Tx out-band Ethernet port 1 × CONSOLE local management port
USB Port	1 × Type-C interface Similar to the CONSOLE port function, used for serial port login
PON Port Attribute	
Transmission Distance	20 km
Port Rate	Downstream: 2.5 Gbps Upstream: 1.25 Gbps
Wavelength	Forwarding: 1490 nm Receiving: 1310 nm
Interface Type	SC/UPC
Fiber Type	9/125μm SMF (Single Mode Fiber)
Light Transmission Power	Class B+: +1.5 dBm to +5 dBm Class C+: +3 dBm to +7 dBm
Receiving Sensitivity	Class B+: -28 dBm Class C+: -30 dBm
Saturation Power	Class B+: -8 dBm Class C+: -12 dBm
Network Management Method	Support CLI, SNMP, TELNET, SSH, WEB
Business Capabilities	Support device log, device upgrade, device management, condition monitoring, configuration management, and user management. Layer 2 switching configuration management: Like port management, VLAN, RSTP, IGMP, ACL, QOS and so on. PON function configuration management: Like OLT authentication, DBA template, service template, line template and so on.
Backplane Bandwidth	96 G
Dimensions (L × W × H)	440 mm × 391 mm × 44 mm
Weight	4 kg

Power Supply	220 V _{AC} : 90 V to 240 V, 47/63 Hz -48 V _{DC} : -36 V to -72 V
Maximum Power	70 W
Environmental Characteristics	
Working Temperature	0 °C to +50 °C
Storage Temperature	-40 °C to +85 °C
Relative Humidity	5 % to 90 % RH (non-condensing)

Ordering Information

Product Name	Product Description
AP8608D-8PON-AC2	1 U standalone GPON OLT with 8 PON ports, 1 USB interface, 4 uplink COMBO ports, 2 uplink 10-gigabit optical ports and power supply of 220VAC / -48VDC, support dual power redundancy configuration

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