

1RU Compact EPON OLT Solution

AP9200 Series

- **1.25 Gbps uplink/downlink**
- **Compliant with IEEE802.3ah**
- **Supports 8 or 16 EPON ports**
- **2 x 10GE uplink ports**
- **8 × GE uplink interfaces**
- **Up to 1:64 coupling ratio**
- **1U compact design**
- **Low power consumption**
- **Low operating cost**
- **Supports layer-3 routing function**
- **Supports dual-AC, dual-DC, and AC/DC dual power supply**



AP9200 Series GEAPON OLT series platform is a compact one RU high performance OLT optical line terminal equipment which provides Network Operators and Services Providers with a flexible and starting point for Gigabit Ethernet Passive Optical Network (GEAPON) services in Fiber to The Home/Business (FTTH & FTTB) networks.

AP9200 Series complies with IEEE802.3ah and PRC Community Industry Standard (YD/T 1475- 2006). It fully supports CTC2.1/3.0 standard, automatic detection and works harmoniously with various ONU choices. AP9200 Series has 2 models: AP9208B 8-port OLT and AP9216B 16-port OLT.

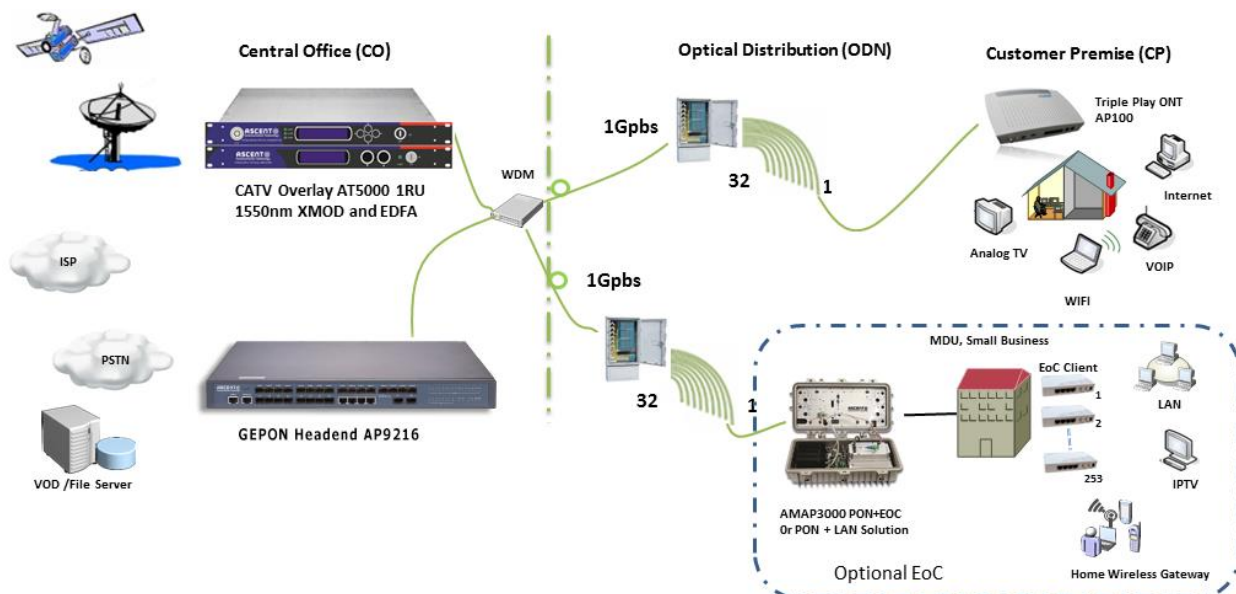
AP9200 Series supports the symmetric uplink/downlink 1.25 Gbps PON transmission rate, efficient bandwidth usage and Ethernet services, helping carriers to provide reliable services to their users. Its coupling ratio ups to 1:64, and its support of different hybrid ONU networks minimizes the carrier's investment.

AP9200 Series GEAPON platforms seamless cooperate with ACT routing and switching products. Combined with ACT Video Overlay package, the AP9200 can provide perfect end-to-end FTTX solution in offering advanced Video, Voice, and Data services, especially in small and medium networks.

Key Features

- Supports 1.25 Gbps uplink/downlink bandwidth
- Compliant with IEEE802.3ah
- Supports up to 16 EPON ports
- 8 × GE uplink interfaces and 2 x 10G uplink ports
- Up to 1:64 coupling ratio
- 1U compact design
- Low power consumption
- Low operating cost
- Supports layer-3 routing function
- Supports dual-AC, dual-DC, and AC/DC dual power supply

Application Diagram



Specifications

System Performance

Item	AP9208	AP9216
Service Interface		
PON Ports	8	16
GE Uplink	4 100/1000M SFP + 4 GE TX/SFP	4 100/1000M SFP + 4 GE TX/SFP
10GE Uplink	2 10GE/GE SFP+	2 10GE/GE SFP+
Management Interface		
RJ45 Console	1	1
Mini-USB Console	1	1
Out-of-Band	1	1
System Capacity		
DRAM	512 MB	256 MB
Flash	32 MB	32 MB
Backplane	72 Gbps	88 Gbps
MAC Table	32K	32K
IPv4 Routing Table	32K	12K
IPv6 Routing Table	8K	6K
Buffer Size	3	2
Jumbo Frame	2	2
Active VLAN	4,094	4,094
Total SVI	400	400
Forwarding Mode	Store-and-forward	Store-and-forward

Technical Specifications

Standards	IEEE802.3ah
	YD-T 1475-2006 access network requires EPON basis
	YD-T 1771-2008 access network requires EPON intercommunication
	China Telecom EPON standard CTC2.1/3.0
	Ethernet – II
VLAN	VLAN
	Port/IP/Protocol/MAC-based VLAN
	4K VLAN
	QinQ and flexible QinQ
Multicast	L2 multicast
	IGMP snooping
	MLD snooping
	Fast-leave
Layer 3 Function	Static route
	RIPv1/v2
	OSPF

QoS	Backpressure flow control (half duplex) IEEE 802.3x flow control (full duplex) IEEE 802.1p, CoS WRR, SP and FIFO queue schedule Limiting the uplink/downlink rate based on each ONU DBA and SLA
Reliability	Unidirectional Link Detection (UDLD) Hot swap of the EPON optical module Optical path protection of EPON (type B/C, hand-in-hand) Abnormal luminescence ONU detection such as long luminescence IEEE 802.3ad LACP
DHCP Function	Server/Relay/Client DHCP snooping DHCP option 66,67,82 DAI IP source guard
Network Security	L2~4 ACL Flow-based ACL MAC limitation MAC sticky Port isolation Packet storm control Transmission data encryption on the PON interface Anti-attack for DDOS, TCP- SYN-flood, UDP-flood, ARP- flood, etc.
Management	CLI, Telnet, SSH, HTTP/ HTTPS and SNMP ISSU FTP/TFTP SPAN NTP
Network Availability	STP/RSTP/MSTP BPDU guard EAPS

Physical Characteristics

Item	AP9208	AP9216
Power Supply		
AC	90 V to 264 V	90 V to 264 V
DC	36 V to 72 V	36 V to 72 V
Power Slots	2	2
Hot-Swap	Supported	Supported
Max. Consumption	70 W	105 W
Total Output BTU (1 BTU/hr = 293 W)	256	439.3

Cooling System

Fan Number	2	2
Air Flow	Left-right	Left-right
Noise @ +25 °C	<45 dBA	<45 dBA

Appearance

Chassis Dimensions (W×D×H)	442.5 mm × 300 mm × 44 mm	442.5 mm × 300 mm × 44 mm
Chassis Weight (Empty)	5 kg	5.7 kg
Package Dimensions (W×D×H)	576 mm × 448 mm × 94 mm	576 mm × 448 mm × 94 mm
Package Weight	5.9 kg	6.6 kg

Environmental Specifications

Operating Temperature	0 °C to +45 °C	0 °C to +45 °C
Operating Humidity (Non-Condensing)	10 % to 85 %	10 % to 85 %
Storage Temperature	-40 °C to +80 °C	-40 °C to +80 °C
Storage Humidity (Non-Condensing)	5 % to 95 %	5 % to 95 %

Accessories

Parts	Power cord, rackmount kits, console cable	Power cord, rackmount kits, console cable
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Reliability

MTBF	95,000 hr	90,000 hr
Certification	CE, FCC, RoHS	CE, FCC, RoHS

Ordering Information

Product Name

Product Description

AP9208-28G-AC	OLT with 8 EPON ports (1 console port, 1 out-of-band management 10/100M port, 8 integrated PON ports (excluding the OLT SFP module), 4 GE TX/SFP combo ports, 4 GE SFP ports; 1 AC90-264V power supply, expandable to dual power supply, 19- inch rack-mounted; 2 10GE SFP+ ports)
AP9208-28G-DC	OLT with 8 EPON ports (1 console port, 1 out-of-band management 10/100M port, 8 integrated PON ports (excluding the OLT SFP module), 4 GE TX/SFP combo ports, 4 GE SFP ports; 1 36- 72VDC power supply, expandable to dual power supply, 19- inch rack-mounted; 2 10GE SFP+ ports)
AP9216-28G-AC	OLT with 16 EPON ports (1 console port, 1 out-of-band management 10/100M port, 16 integrated PON ports (excluding the OLT SFP module), 4 GE TX/SFP combo ports, 4 GE SFP ports; 1 AC90-264V power supply, expandable to dual power supply, 19-inch rack-mounted; 2 10GE SFP+ ports)
AP9216-28G-DC	OLT with 16 EPON ports (1 console port, 1 out-of-band management 10/100M port, 16 integrated PON ports (excluding the OLT SFP module), 4 GE TX/SFP combo ports, 4 GE SFP ports; 1 36-72VDC power supply, expandable to dual power supply, 19-inch rack-mounted; 2 10GE SFP+ ports)
AP9200-PWR-150-DC	OLT DC power supply (input voltage DC36V~72V, 150W max power)
AP9200-PWR-150-AC	OLT AC power supply (input voltage AC90~240v, 150W max power)

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