

EPON OLT SPECIFICATION

Product Overview:

EPON OLT is a high integration and medium capacity cassette EPON OLT designed for operators' access and enterprise campus network. It follows the IEEE802.3 ah technical standards and meets the EPON OLT equipment requirements of YD/T 1945-2006 Technical requirements for access network—based on Ethernet Passive Optical Network (EPON) and China telecom EPON technical requirements 3.0. EPON OLT series possesses excellent openness, large capacity, high reliability, complete software function, efficient bandwidth utilization and Ethernet business support ability, widely applied to the operator front-end network coverage, private network construction, enterprise campus access and other access network construction.

There are two kinds of specifications OLT. The OLT provides 4/8 downlink 1.25G EPON ports, 8*GE LAN Ethernet ports and 4*GE SFP for uplink. The height is only 1U for easy installation and space saving. It adopts the advanced technology, offering efficient EPON solution. Moreover, it saves a lot cost for operators for it can support different ONU hybrid networking.



- 1 RU 19 inch
- 4 * fixed EPON port
- 8 * GE LAN for uplink
- 4 * GE SFP+ for uplink
- 1 * console port
- 1 * nms manager port
- Full-load power consumption ≤ 45 W
- Double AC Power

4 PON EPON OLT OF HDV

EPON OLT Datasheet V1.0

Item	EPON 4 PON Port
Service Port	8 * PON port, 8 * GE, 4*GE SFP optical
Redundancy Design	Dual Voltage Regulators
Power Supply	AC: input100~240V * 2 47/63Hz
Power Consumption	≤45W
Dimensions (Width x Depth x Height)	440mm×44mm×260mm
Weight (Full-Loaded)	≤4.5kg
Environmental Requirements	Working temperature: -10°C~55°C Storage temperature: -40°C~70°C Relative humidity: 10%~90%, non-condensing
Item	EPON 8 PON Port
Service Port	8 * PON port, 8 * GE, 4*GE SFP optical
Redundancy Design	Dual Voltage Regulators
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Product Features:

Item	EPON OLT 4/8 PON Port
PON Features	IEEE 802.3ah EPON China Telecom/Unicom EPON

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		<p>Maximum 20 Km PON transmission distance</p> <p>Each PON port supports the max. 1:64 splitting ratio</p> <p>Uplink and downlink triple churning encrypted function with 128Bits</p> <p>Standard OAM and extended OAM</p> <p>ONU batch software upgrade, fixed time upgrade, real time upgrade</p>
L2 Features	MAC	<p>MAC Black Hole</p> <p>Port MAC Limit</p> <p>16K MAC address</p>
	VLAN	<p>4K VLAN entries</p> <p>Port-based/MAC-based/protocol/IP subnet-based</p> <p>QinQ and flexible QinQ (StackedVLAN)</p> <p>VLAN Swap and VLAN Remark</p> <p>PVLAN to realize port isolation and saving public-vlan resources</p>
	Spanning Tree	<p>STP/RSTP</p> <p>Remote loop detecting</p>
	Port	<p>Bi-directional bandwidth control for onu</p> <p>Static link aggregation and LACP(Link Aggregation Control Protocol)</p> <p>Port mirroring</p>
Security Features	User's Security	<p>MAC address binding to the port and MAC address filtering</p>
	Device Security	<p>SSHv2 Secure Shell</p> <p>Security IP login through Telnet</p> <p>Hierarchical management and password protection of users</p>
	Network Security	<p>User-based MAC and ARP traffic examination</p> <p>Restrict ARP traffic of each user and force-out user with abnormal ARP traffic</p> <p>Dynamic ARP table-based binding</p> <p>IP+VLAN+MAC+Port binding</p> <p>L2 to L7 ACL flow filtration mechanism on the 80 bytes of the head of user-defined packet</p> <p>Port-based broadcast/multicast suppression and auto-shutdown risk port</p>
Service Features	ACL	<p>Standard and extended ACL</p> <p>Time Range ACL</p> <p>Flow classification and flow definition based on source/destination MAC address, VLAN, 802.1p, ToS, DiffServ, source/destination IP(IPv4) address, TCP/UDP port number, protocol type, etc</p> <p>packet filtration of L2~L7 deep to 80 bytes of IP packet head</p>
	QoS	<p>Rate-limit to packet sending/receiving speed of port or self-defined flow and provide general flow monitor and</p> <p>Priority remark to port or self-defined flow and provide 802.1P, DSCP</p> <p>priority and Remark</p>

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		<p>Packet mirror and redirection of interface and self-defined flow</p> <p>Super queue scheduler based on port or self-defined flow. Each port flow supports 8 priority queues and scheduler of SP, WRR and SP+WRR.</p> <p>Congestion avoid mechanism, including Tail-Drop and WRED</p>
	IPv4	<p>DHCP Relay</p> <p>DHCP Server</p>
	Multicast	<p>IGMPv1/v2/v3</p> <p>IGMPv1/v2/v3 Snooping</p> <p>IGMP Fast leave</p>
Reliability	Loop Protection	Loopback-detection
	Link Protection	<p>RSTP</p> <p>LACP</p>
	Device Protection	1+1 power hot backup
Maintenance	Network Maintenance	<p>Port real-time, utilization and transmit/receive statistic based on Telnet</p> <p>802.3ah Ethernet OAM</p> <p>RFC 3164 BSD syslog Protocol</p> <p>Ping and Traceroute</p>
	Device Management	<p>CLI, Console port, Telnet and WEB</p> <p>RMON (Remote Monitoring)1, 2, 3, 9 groups MIB</p> <p>NTP</p> <p>Network management System (NMS)</p>

Purchase Information:

Product name	Product description
EPON OLT 8PON L2	8* PON port, 8 * GE, 4*GE SFP, double AC power supply
EPON OLT 4PON L2	4* PON port, 8 * GE, 4*GE SFP, double AC power supply