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 *10G 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.

8 PON EPON OLT

- ☐ 1 RU 19 inch
- ☐ 8 * fixed EPON port
- ☐ 8 * GE LAN for uplink
- ☐ 4 *10G SFP+ for uplink
- ☐ 1 * console port
- ☐ 1 * nms manager port
- ☐ Full-load power consumption≤45 W
- ☐ Double AC Power

4 PON EPON OLT

- 1 RU 19 inch
- 4 * fixed EPON port
- 8 * GE for uplink
- 4 *10G SFP+ for uplink
- 1 * console port
- 1 * nms manager port
- Full-load power consumption≤45 W
- Double AC Power

Item	EPON 4 PON Port
Service Port	4 * PON port, 8 * GE, 4*10G SFP optical 1 console port 1 nms port
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
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Product Features:

Item		EPON OLT 4/8 PON Port
PON Features		IEEE 802.3ah EPON China Telecom/Unicom EPON Maximum 20 Km PON transmission distance Each PON port supports the max 1:64 splitting ratio Uplink and downlink triple churning encrypted function with 128Bits Standard OAM and extended OAM ONU batch software upgrade, fixed time upgrade, real time upgrade
L2 Features	MAC	MAC Black Hole Port MAC Limit 16K MAC address
	VLAN	4K VLAN entries Port-based/MAC-based/protocol/IP subnet-based QinQ and flexible QinQ (StackedVLAN) VLAN Swap and VLAN Remark PVLAN to realize port isolation and saving public-vlan resources
	Spanning Tree	STP/RSTP Remote loop detecting
	Port	Bi-directional bandwidth control for onu Static link aggregation and LACP(Link Aggregation Control Protocol) Port mirroring
Security Features	User's Security	Port Isolation MAC address binding to the port and MAC address filtering
	Device Security	Anti-DOS attack(such as ARP, Synflood, Smurf, ICMP attack), ARP SSHv2 Secure Shell Security IP login through Telnet Hierarchical management and password protection of users
	Network Security	User-based MAC and ARP traffic examination Restrict ARP traffic of each user and force-out user with abnormal ARP traffic Dynamic ARP table-based binding IP+VLAN+MAC+Port binding L2 to L7 ACL flow filtration mechanism on the 80 bytes of the head of user-defined packet Port-based broadcast/multicast suppression and auto-shutdown risk port

Service Features	ACL	Standard and extended ACL Time Range ACL 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 packet filtration of L2～L7 deep to 80 bytes of IP packet head
	QoS	Rate-limit to packet sending/receiving speed of port or self-defined flow and provide general flow monitor and Priority remark to port or self-defined flow and provide 802.1P, DSCP priority and Remark Packet mirror and redirection of interface and self-defined flow 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. Congestion avoid mechanism, including Tail-Drop and WRED
	IPv4	ARP Proxy DHCP Relay DHCP Server Static Routing OSPFv2
	Multicast	IGMPv1/v2/v3 IGMPv1/v2/v3 Snooping IGMP Fast leave IGMP Proxy
Reliability	Loop Protection	Loopback-detection
	Link Protection	RSTP LACP
	Device Protection	1+1 power hot backup
Maintenance	Network Maintenance	Port real-time, utilization and transmit/receive statistic based on Telnet 802.3ah Ethernet OAM RFC 3164 BSD syslog Protocol Ping and Traceroute
	Device Management	CLI, Console port, Telnet and WEB RMON (Remote Monitoring)1, 2, 3, 9 groups MIB NTP Network management <NMS>

Purchase Information:

Product name	Product description
EPON OLT 8PON L3	8 * PON port, 8 * GE, 4 * 10G SFP, double AC power supply
EPON OLT 4PON L3	4* PON port, 8 * GE, 4 * 10G SFP, double AC power supply