

OLT-1000 Eight Ports EPON OLT Product Description

Eight Ports EPON OLT, complying with IEEE802.3ah, YD/T 1475-2006 and CTC 2.1 standards, is a 1U pizza-box OLT equipment with flexible configuration, easy deployment, small space requirement, high performance, cost effective etc advantages. It's specially designed for fiber access network such as Fiber-To-The-Home (FTTH), Fiber-To-The-Office (FTTO), IP surveillance etc applications.

Product Overview



8PON EPON OLT

- Provide 8 PON Ports
- Provide 4 GEWAN Interfaces (with 1.25G SFP Optical Transceiver or 1000Base-T SFP Copper Transceiver)
- Support 512 ONUs connection (1:64 splitting ratio)
- Support L3 Ethernet switch, 200Gbps switch capability
- Provide RS232 serial configuration interface, Ethernet in-band and out-band configuration methods
- Support CLI configuration and SNMP network management
- Typical power consumption 60W

Product Advantages

- Support Dynamic Bandwidth Allocation (DBA), granularity 64Kbps.
- Support ONU MAC auto binding and filtering, support off-line service configuration and automotive configuration deployment.
- Support PON ports Isolation, support AEC encryption.
- Support 4096 VLANs adding, transparent and translation, support VLAN stacking (QinQ).
- Support line-rate learning and aging of 32K MAC address, support MAC address limitation.
- Support IEEE 802.1d (STP), 802.1w (RSTP) spanning tree protocol.
- Support IGMP v1/v2 Snooping and Proxy.
- Support priority queue scheduling with SP, WRR and SP+WRR algorithms.
- Support port rate limitation, support packet filtering.
- Support port mirroring and port aggregation.
- Provide searching and statistics of log, alarm and performance.
- Support SNMP v1/v2c network management.

Product Specification

Hardware Specification	
Data Interfaces	Provide 8 PON ports
	Provide 4 GE WAN Interfaces (with 1.25G SFP Optical Transceiver or 1000Base-T SFP Copper Transceiver)
Management Interfaces	Provide one 10/100Base-T RJ45 out-band management interface
	Out-band management interface via any GE WAN interface
	Provide RS232 serial configuration port
Data Switch	Support L3 Ethernet switch, 200Gbps switch capability with no any blocking
LED indications	RUN, ALM, PW1, PW2 indicates the status of system running, alarm and power supplies
	PON1 to PON8 indicates LINK and Active status of each PON port
	GE1 to GE4 indicates LINK and Active status of each GE WAN interface
Power Supply	220V /1A AC power supply (may change to DC power supply or dual power supplies according to customer requirements)
	Typical power consumption 60W
Weight	4.6 Kg
Case Temperature	0-55℃
Size	322.1mm (Length) * 482.60mm (Width) * 44.7mm (Height)
Software Specification	
EPON Standard	Complying with IEEE802.3ah, YD/T 1475-2006 and CTC 2.1 standards
DBA	Support fixed bandwidth, guaranteed bandwidth, best-effort bandwidth and priority configurations
	Bandwidth granularity 64Kbps
Security	Support AES and triple churing encryption for PON network
	Support ONU MAC address binding and filtering
VLAN	Support 4096 VLANs adding, transparent, translation and deletion
	Support VLAN based on port, MAC, Ethernet protocol and IP sub-net

	Support VLAN stacking (QinQ)
MAC Learning	Support 32K MAC address
	Line rate MAC address learning by hardware
	Support MAC limitation based on port, VLAN and link aggregation
Spanning Tree protocol	Support IEEE 802.1d (STP), 802.1w (RSTP) spanning tree protocols
Multicast	Support IGMP Snooping and IGMP Proxy
	Support IGMP v1/v2
QoS	Support 802.1p priority queue scheduling
	Support SP、WRR and SP+WRR scheduling algorithms
ACL	Rule according to destination IP, source IP, destination MAC, source MAC, destination protocol port number, source protocol port number, SVLAN, DSCP, TOS, Ethernet type, IP priority, IP packet protocol type etc
	Packet filtering according to above rules
	Cos setting, IP priority setting, mirroring, rate limitation and port re-direction according to above rules
Flow Control	Support IEEE 802.3x duplex flow control
	Support port rate limitation
Link Aggregation	Support 8 link aggregation group, 4 member ports per group
Mirroring	Support port mirroring for WAN interfaces and PON ports
Log	Support log output mask according to alarm level
	Support log output to terminal, file and log server
Alarm	Support 4 levels alarms (Critical, Important, minor and warning)
	Support 6 alarm types (communication, QoS, process failure, hardware and environment)
	Support alarm output to terminal, log and SNMP network management server
Performance statistics	Performance sampling period from 1 to 30s
	Support 15 minutes performance statistics for WAN interfaces, PON ports and ONU UNI ports
Maintenance	Support OLT configuration saving, and restore to factory configuration
	Support OLT on-line upgrading
	Support ONU MAC auto binding and filtering, support off-line service configuration and automotive configuration deployment
	Support ONU remote upgrading and batch upgrading

Management	Support local or remote CLI configuration
	Support SNMP v1/v2c network management, support in-band and out-band network management

Ordering Information

P/N	Description
EPON-OLT-8PON	8 PON ports OLT, 220V AC power supply
SFP-GEPON-PX20-D	GEPON OLT SFP transceiver, 20Km distance
SFP-GE-RJ45	GE SFP Copper Transceiver, RJ45
SFP-GE-SX-MM850	GE SFP 1.25G optical transceiver, 850nm, 550m, LC
SFP-GE-LX-SM1310	GE SFP 1.25G optical transceiver, 1310nm, 10Km, LC