

RicherLink RL8008ES OLT Data Sheet

1. Product Overview

The RicherLink RL8008ES OLT (Figure 1) is self-developed Compact 1U EPON OLT equipment, meeting the requirements of IEEE802.3ah 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, possessing super EPON access capacity, carrier-class reliability and the complete security function. It can satisfy long-distance optical fiber access requirement on account of its excellent management, maintenance and monitoring capability, abundant service features and flexible network mode. RL8008ES can be used with NMS2000 network management system so as to provide users with the perfect solution.

The RL8008ES OLT provides 8 *Downsteam EPON ports, 4GE * Uplink ETH ports, 2GE * Uplink SFP ports and 2*10G Uplink SFP+ ports. Up to 1:64 Split ratio for up to 512 EPON users. The 1U pizzabox design is for easy installation, Maintenance and Space saving. RL8008ES is suitable for Broadcast three in one, video surveillance network, enterprise LAN, Internet of Things, etc.

Figure 1: RicherLink RL8008ES OLT



2. Product Specifications

Network interface	
EPON interface	8 x EPON (1.25/1.25 Gbps)
Uplink Optical Interface	2 x GE SFP + 2 x 10GE SFP+
Uplink Ethernet Interface	4 x RJ-45
PON interface	
EPON	IEEE 802.3ah EPON
Local Management interface	
Console	RJ-45 EIA/TIA-232 Console management port
MGMT	1000BASE-T out-band management port
Performance	
Switching Capacity	64Gbps
Package transmit rate(IPv4/IPv6)	125Mpps
Split ratio	1: 64
Maximum ONU quantity	512 ONT
Power Supply and Consumption	
Power Adaptor	AC Input::100 to 240 V AC, 50/60 Hz; DC Input : 36V-75V
Redundancy Design	Pluggable double power supply, double AC, double DC and AC+DC
Consumption	<56 W
Environmental conditions	
Storage	temperature -10 to 70°C, rel. humidity 10–90% (non-condensing)
Operation	temperature 0 to 45°C, rel. humidity 10–90% (non-condensing)
Physical specifications	
Dimensions	442mm×360mm× 44mm(W * D *H)
Weight	< 5.5 KG

3.Key Feature Support on RL8008ES

Ethernet switching (L2) features	
VLAN	4K VLAN entries
	Port-based QinQ and Selective QinQ (StackVLAN)
	Port-based/MAC-based/IP subnet-based VLA
Spanning tree	IEEE 802.1x STP/RSTP/MSTP
	ONU remote loop detection
MAC	MAC Black Hole
	Port MAC limit
	8K MAC address
Port	Bi-direction bandwidth control
	Port mirroring and traffic mirroring

Service features	
Multicast	IGMPv1/v2/v3
	IGMP Snooping/Proxy
	IGMP filtering
Routing	BGP
	MPLS
	RIP
QoS	Base on port or user-defined rate limitation
	Base on port or user-defined priority tag, provide 802.1P, DSCP tag ability of priority
	Base on port or user-defined high grade queue scheduling
	priority queues and scheduler of SP, WRR and SP+WRR.
	Congestion avoidance system
Security features	
User security	Anti-ARP-spoofing deceive defend
	Anti-ARP-flooding flooding attack automatic control
	IP, MAC, port and VLAN binding
	Port isolation
Device security	Defend DOS attack
	Security IP login through Telnet
	Hierarchical management and password protection of users
Network security	IP address、VLAN ID、MAC address and port manual binding
	Port broadcast /multibroadcast restrain
	Base on source / destination MAC address,VLAN,802.1p,ToS,DiffServ,source/ destination IP(IPv4/IPv6) address,TCP/UDP port number protocol type of IP package flow classify and flow defined regulation management,support package header 80 byte depth L2-L7 ACLflow filtrate
	Dynamic ARP table-based binding
	DHCP Option82 and PPPoE+ upload user's physical location
Network management	Command-line interface (CLI) , Console, Telnet and WEB configuration
	RMON (Remote Monitoring)1/2/3/9 groups of MIB
	System configuration with SNMPv1/v2/v3
	NTP(Network Time Protocol)
	NMS2000 network management

4.Ordering Information

Model	Product Description
RL8008ES	8*EPON, 4*GE port, 2*GE SFP, 2*10G SFP+,Pluggable Dual Power Supply