RicherLink RL8004EN V3.0 OLT Data Sheet

1. Product Overview

The RicherLink RL8004EN V3.0 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. RL8004EN V3.0 can be used with NMS2000 network management system so as to provide users with the perfect solution.

The RL8004EN V3.0 OLT provides 4 *Downsteam EPON ports, 4 * Uplink GE ETH ports, 4 * Uplink GE SFP ports ports. Up to 1:64 Split ratio for up to 256 EPON users. The 1U pizzabox design is for easy installation, Maintenance and Space saving. RL8004EN V3.0 is suitable for Broadcast three in one, video surveillance network, enterprise LAN, Internet of Things, etc.Provide perfect, intelligent, powerful, advanced and professional solutions for FTTH/FTTB projects.

RL8004EN V3.0 Cassette OLT

2. Product Specifications

Network interface	
EPON interface	4* EPON (1.25/1.25 Gbps)
Uplink Optical Interface	4 * GE SFP
Uplink Ethernet Interface	4 * GE RJ45
PON interface	
EPON	IEEE 802.3ah EPON
Local Management interface	
Console	RJ45 EIA/TIA-232 Console management port
MGMT	1000BASE-T out-band management port
Performance	
Switching Capacity	26Gbps
Package transmit rate(IPv4/IPv6)	125Mpps
Split ratio	1: 64
Maximum ONU quantity	256 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	＜46 W
Environmental conditions	
Storage	temperature -10 to 70°C, rel. humidity 10–90% (non-condensing)
Operation	temperature -5 to 50°C, rel. humidity 10–90% (non-condensing)
Physical specifications	
Dimensions	442mm×227mm× 44mm(W * D *H)
Weight	＜ 3.0KG

3.Key Feature Support on RL8004EN V3.0

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	
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	
L2	LACP/VLAN Tag / Un-tag/VLAN transmission/QinQ/802.1D/802.1W	
	IEEE802.x Flow Control/Port Isolation/Port Rate Limitation/Storm control	
Routing(L3)	BGP/MPLS/RIP/OSPF/Arp agent,Static routing	
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	
	TACACS+	
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
RL8004EN V3.0	4*EPON, 4*GE RJ45 port, 4 * GE SFP ,Single Power Supply