

Specification

RL8004ES V2.0 EPON OLT Data Sheet

RL8004ES V2.0



1. Product Overview :

The RicherLink RL8004ES V2.0 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. RL8004ES V2.0 can be used with NMS2000 network management system so as to provide users with the perfect solution. quality and excellent FTTx network solution.

The RL8004ES V2.0 OLT provides 4 *Downstream EPON ports, 4 * Uplink GE ETH ports, 4* Uplink SFP+ 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. RL8004ES V2.0 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.

2. Product Specifications:

Network interface	
EPON interface	4* EPON (1.25/1.25 Gbps)
Uplink Optical Interface	4 * 10GE 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	100BASE-T out-band management port
Performance	
Switching Capacity	103Gbps
Package transmit rate(IPv4/IPv6)	125Mpps
Split ratio	1 : 64
Maximum ONU quantity	256 ONT



3. Key Feature Support on RL8004ES V2.0

Ethernet switching (L2) features

VLAN	<ul style="list-style-type: none"> - A4K VLAN entries - C Input:: 100 to 240 V AC, 50/60 Hz; DC Input : 36V-75V - Port-based QinQ and Selective QinQ (StackVLAN) - Port-based/MAC-based/IP subnet-based VLA
Spanning tree	<ul style="list-style-type: none"> - IEEE 802.1x STP/RSTP/MSTP - ONU remote loop detection
MAC	<ul style="list-style-type: none"> - MAC Black Hole - Port MAC limit - 16K MAC address
Port	<ul style="list-style-type: none"> - Bi-direction bandwidth control - Port mirroring and traffic mirroring

Service features

Multicast	<ul style="list-style-type: none"> - IGMPv1/v2/v3 - IGMP Snooping/Proxy - IGMP filtering
QoS	<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - 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)	<ul style="list-style-type: none"> - BGP/MPLS/RIP/OSPF/Arp agent,Static routing

Security features

User security	<ul style="list-style-type: none"> - Anti-ARP-spoofing deceive defend - Anti-ARP-flooding flooding attack automatic control - IP, MAC, port and VLAN binding - Port isolation
Device security	<ul style="list-style-type: none"> - Defend DOS attack - Security IP login through Telnet - Hierarchical management and password protection of users - TACACS+
Network security	<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - 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

RL8004ES V2.0

Product Description

4*EPON, 4*GE RJ45 port, 4 * 10GE SFP+ , Single Power Supply

