Specification

RL8004GL GPON OLT
RL8004GL

1. Product Overview

RL8004GL OLT (Figure 1) is self-developed Compact 1U GPON OLT equipment, meeting the requirements of ITU-T G.984/G.988 and relative standards of China Telecom/Unicom GPON, possessing super GPON 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. RL8004GL can be used with NMS2000 network management system so as to provide users with the perfect solution.

The RL8004GL OLT provides 4 *Downsteam GPON ports, 4 * Uplink GE ETH ports and 4* Uplink 10G SFP+ ports. Up to 1:128 Split ratio for up to 512 GPON users. The 1U pizza box design is for easy installation, Maintenance and Space saving. RL8004GL is suitable for Broadcast three in one, video surveillance network, enterprise LAN, Internet of Things, etc.

2. Product Specifications

Network interface	
GPON interface	4 x GPON (2.5 / 1.25 Gbps)
10GE Ethernet	4 x 10GE SFP+
1GE Ethernet	4 x RJ-45
PON interface	
GPON	ITU-TG.984.x standard
Local Management interface	
Console	RJ-45 EIA/TIA-232 Console management port
MGMT	1000BASE-T out-band management port
Performance	
Switching Capacity	103Gbps
Split ratio	1 : 128
Maximum ONU quantity	4096 GEM port-ids, 1024 T-CONT, 128 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	＜50 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	440mm× 400mm× 44mm(W * D * H)
Weight	＜ 6.5KG

3. Key Feature Support on RL8004GL

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
	16K MAC address
Port	Bi-direction bandwidth control
	Port mirroring and traffic mirroring

Service featuresernet	
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
Routing	RIP
	OSPF
	BGP
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 /multi broadcast 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
RL8004GL	8*GPON, 4*GE port, 4*10GE/ GE SFP+, AC Power Supply