

Specification

RL8016G EPON OLT RL8016G



1. Product Overview

The RicherLink RL8016G 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. RL8016G can be used with NMS2000 network management system so as to provide users with the perfect solution.

The RL8016G OLT provides 16 *Downstream GPON ports, 4 * Uplink GE ETH ports and 4* Uplink 10G SFP+ ports. Up to 1:128 Split ratio for up to 2048 GPON users. The 1U pizzabox design is for easy installation, Maintenance and Space saving. RL8016G is suitable for Broadcast three in one, video surveillance network, enterprise LAN, Internet of Things, etc.

2. Product Specifications

| Network interface | |
|----------------------------|---|
| GPON interface | 16 x GPON (1.25/2.5 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 | 148Gbps |
| Split ratio | 1: 128 |
| Maximum ONU quantity | 4096 GEM port-ids, 1024 T-CONT, 128 ONT |



Specification

| Power Supply and Consumption | |
|------------------------------|---|
| Power Adaptor | AC Input: : 100 to 240 V AC, 50/60 Hz; DC Input : 36V-75V(optional) |
| Redundancy Design | Pluggable double power supply, double AC,double DC and AC+ DC |
| Consumption | <84 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× 4 00mm× 44mm(W * D * H) |
| Weight | < 6.5KG |

3. Key Feature Support on RL8016G

| Ethernet switching (L2) features | |
|----------------------------------|--|
| VLAN | 4K VLAN entries |
| | Port-based QinQ and Selective QinQ (StackVLAN) |
| | Port-based/MAC-based/IP subnet-based VLA |
| PON interface | |
| Spanning tree | IEEE 802.1x STP/RSTP/MSTP |
| | ONU remote loop detection |
| Local Management interface | |
| MAC | MAC Black Hole |
| | Port MAC limit |
| | 64K MAC address |
| Performance | |
| 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 | BGP |
| | MPLS |
| | RIP |
| Security features | |
| User security | Anti-ARP-spoofing deceive defend |
| | Anti-ARP-flooding flooding attack automatic control |
| | IP, MAC, port and VLAN binding |
| | Port isolation |
| | TACACS+ Authentication |
| 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 |
|------------|--|
| RL8016G | 16*GPON, 4*GE port, 4*10GE/ GE SFP+, Pluggable Dual Power Supply |
| RL100PWRAC | AC Power module for RL8016G |
| RL100PWRDC | DC Power module for RL8016G |

