

RicherLink RL8016G OLT Data Sheet

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 NGBNVIEW 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.

Figure 1: RicherLink RL8016G OLT



2. Product Specifications

| Network interface | |
|----------------------------------|--|
| GPON interface | 16 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 | 100BASE-T out-band management port |
| Performance | |
| Switching Capacity | 205Gbps |
| Package transmit rate(IPv4/IPv6) | 125Mpps |
| Split ratio | 1:128 |
| Maximum ONU quantity | 4096 GEM port-ids, 2048 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 | <85 W |
| Environmental conditions | |
| Storage | temperature -10 to 65°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 | < 3KG |

3.Key Feature Support on RL8016G

| Ethernet switching (L2) features | |
|----------------------------------|--|
| VLAN | support 4K VLAN |
| | support QinQ base on port or data flow |
| | support VLAN addition, delete and transition |
| Spanning tree | support STP/RSTP/MSTP |
| | support remote loop detection |
| Multicast | support IGMPv1/v2/v3 |
| | support IGMP Snooping/Proxy |
| | support IGMP filtering |
| Port | support by-direction bandwidth control |
| | Port mirroring |

| Service features | |
|--------------------|---|
| Multicast | support IGMPv1/v2/v3 |
| | support IGMP Snooping/Proxy |
| | support IGMP filtering |
| QoS | support base on port or user-defined rate limitation |
| | support base on port or user-defined priority tag, provide 802.1P, DSCP tag ability of priority |
| | support base on port or user-defined high grade queue scheduling |
| | support base on port or user-defined high grade queue scheduling |
| | support congestion avoidance system |
| Security features | |
| User security | support Anti-ARP-spoofing deceive defend |
| | support Anti-ARP-flooding flooding attack automatic control |
| | support IP, MAC, port and VLAN binding |
| | support port isolation |
| Device security | support defend DOS attack |
| | support user cascade protection, prevent unauthorized user forcible entry |
| Network security | support IP address、VLAN ID、MAC address and port manual binding |
| | support port broadcast /multibroadcast restrain |
| | support 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 |
| | support IP address、VLAN ID、MAC address and port manual binding |
| | support port broadcast /multibroadcast restrain |
| Network management | support command line interface (CLI) |
| | support SNMPv1/v2/v3 |
| | support option82 support DHCP service, relay agent |
| | support remote monitoring (RMON) |
| | support port mirror |

4.Ordering Information

| Model | Product Description |
|------------|--|
| RL8016G | 16*PON, 4*GE port, 4*10GE/GE SFP+, Pluggable Dual Power Supply |
| RL100PWRAC | AC Power module for RL8016G |
| RL100PWRDC | DC Power module for RL8016G |