

# FTTH/GPON OLT RL8008G-V20



## Overview

With increasing internet users in thinly populated regions, the demand of high-bandwidth and cost-effective systems for connecting to network has been existed in the market these days. To meet these customer needs, Richerlink Networks has launched RL8008G-V20 GPON (Gigabit Passive Optical Network) OLT system. RL8008G-V20 is a compact GPON OLT system having 8 GPON ports and 2 uplink ports(10GE) & 8 uplink ports (optical or electrical GE), which provides FTTx service to the areas that have a low density of population or a small number of subscribers with less cost. RL8008G-V20 meets carrier requirements for flexibility and reliability. RL8008G-V20 supports the module-type power (AC/DC), 10Gigabit uplink ports(SFP+) and combo-type Gigabit uplink ports (optical or electrical GE), which ensures to apply in a variety of circumstances. Reliable operation and service are guaranteed through power redundancy, which prevents the system shutting down at the power-related failure.

## Features

- 96Gbps switching Capacity
- 8 GPON ports, 10GE 2 ports and GE 8 ports
- High Capacity Uplink/Service Interface 2.5Gbps(down) /1.25Gbps(up)
- Easy to install due to compact size
- Cost-Effective at thinly populated regions
- Selective interface for network circumstances
- Modular-type Power and Combo-type ports
- Reliable FTTx service with power redundancy system
- Improved QoS and differential traffic service
- IGMP support for IPTV applications
- Fully Managed via Richerlink's INAS Element Manager

- SNMPv2/v3 with RMON and Alarming

## Specification

Flash Memory	64MB
SDRAM	512MB
Service Port	8 GPON(SFP, SC/PC type)
Uplink Port	8 GE Combo [100/1000Base-X (SFP) or 10/100/1000Base-T (RJ45)] 2 1G/10GBase-R (SFP+) ports
MGMT port	1 10/100Base-TX (RJ45)
Consolt Port	1 Console (RS232)
MAC Table	32K
VLAN	4K
Switching Capacity	96Gbps
Throughput	71Mpps
Operating Temp.	-20~60°C
Operating Humidity	5~90% (non-condensing)
Power Voltage	AC type : 100-240VAC, 50/60Hz DC type : -48/60VDC
Dimensions (W x H x D)	432 x 43 x 320 mm

## Capabilities

Layer 2	<ul style="list-style-type: none"> <li>• Port/Subnet/Protocol-based VLAN</li> <li>• Spanning Tree: STP, RSTP, MSTP</li> <li>• 802.3ad Link aggregation based on MAC</li> <li>• Flow Control</li> </ul>
Layer 3	<ul style="list-style-type: none"> <li>• 8K IPv4 Subnets / 4K IPv6 Subnets</li> <li>• Static routing</li> <li>• RIPv1/v2, OSPFv2, BGPv4, VRRP</li> <li>• 12K LPM table and ECMP/WCMP group</li> </ul>
Multicast	<ul style="list-style-type: none"> <li>• IGMPv1/v2/v3</li> <li>• IGMP snooping</li> <li>• IGMP filtering and throttling</li> <li>• Multicast VLAN Registration (MVR)</li> </ul>
GPON	<ul style="list-style-type: none"> <li>• ITU-T G.984 compliant</li> <li>• Supports ITU-T G.984.4 ONT Management &amp;Control</li> </ul>

	Interface (OMCI)
	<ul style="list-style-type: none"> <li>• Remote ONT/ONU management</li> <li>• Automatic ONT ranging</li> <li>• 4k port-ID and 1k alloc-ID</li> </ul>
Security	<ul style="list-style-type: none"> <li>• Secure Shell (SSH) v1/v2</li> <li>• 802.1x RADIUS, TACACS+ authentication</li> <li>• Storm Control</li> </ul>
EMS	<ul style="list-style-type: none"> <li>• INAS</li> <li>• Web Management</li> </ul>
Management	<ul style="list-style-type: none"> <li>• Serial / Telnet (CLI)</li> <li>• SNMPv1/v2/v3</li> <li>• DHCP server, relay agent with option82</li> <li>• Remote Monitoring (RMON)</li> <li>• Syslog, Port Mirroring</li> </ul>

## Sample Configuration

