

OLT-G8V Layer3 GPON OLT Data Sheet v1.4



- **Open to any brands of ONU**
- **Layer 3 Route**
- **Power Backup**
- **Easy to manage and friendly interface**

Product Overview

The OLT-G8V is a 1U 19 Inch Standard Box with 8*PON Ports and high bandwidth access and has the features of convenience, flexibility, easy- deployment, and high performance. It meets flexible and fast FTTx access, especially suitable for the scenarios, such as sparse, remote, cost-sensitive areas, smart industrial parks, commercial buildings, FTTH, FTTM, etc.

Order Info

| Product Name | Description | Power Configuration | Optional Accessories |
|--------------|---------------|----------------------|----------------------|
| OLT-G8V | 8*GPON, | ✓ 1*AC Power | GPON SFP C++ Modules |
| | 4*RJ45+2*SFP+ | ✓ 2*AC Power | GPONSFP C+++ Modules |
| | 2*SFP+ | ✓ 2*DC Power | 1G SFP Modules |
| | | ✓ 1*AC + 1* DC Power | 10G SFP+ Modules |

Product Description

I). Functional Features

Compact Design Meets Various Application Scenarios

Supports the deployment in diverse scenarios including low-density areas, remote areas, sparsely-populated areas, and industrial parks.

Supports FTTM and sharing site/rack with wireless base stations.

Small size and lightweight, easy to transport and install.

Supports multiple installation modes, like limited room space, basement, low-voltage room, and small rack or cabinet.

Carrier-class Security Protection

Support dynamic routing protocol RIP&OSPF, and ensure the safe operation of the network.

Supports uplink redundancy protection including LACP STP, RSTP, and MSTP, and supports RIP&OSPF protocol.

Supports link protection.

Lower TCO

Dramatically saves on investment fees in trunk fibers, pipe engineering, and facilities. Effectively reduce CapEx and OpEx.

2). Software Functions

◆ Management Function

SNMP,Telnet,CLI,WEB,SSH v2;

Fan Group Control

Port Status monitoring and configuration management

Online configuration and management

User management

Alarm management

◆ Layer2 Switch

32K Mac address

Support 4096 VLANs

Support port VLAN and protocol VLAN

Support VLAN tag/Un-tag, VLAN transparent transmission

Support VLAN translation and QinQ

Support storm control based on port

Support port isolation

Support port rate limitation

Support 802.1D and 802.1W

Support static LACP, Dynamic LACP

QoS based on port, VID, TOS, and MAC address

Access control list

IEEE802.x flow control

Port stability statistics and monitoring

◆ Multicast

IGMP snooping

2048 IP Multicast Groups;

◆ DHCP

DHCP server, DHCP relay, DHCP snooping

DHCP option82

◆ Layer 3 Route

ARP Proxy

4096 hardware Host Routes,512 hardware Subnet Routes

Support 802.1X,Radius,Tacacs+

Support IP source guard

Support static route ,dynamic route RIP v1/v2,RIPng and OSPF v2/v3;

◆ IPv6

Support NDP;

Support IPv6 Ping,IPv6 Telnet,IPv6 routing;

Support ACL based on source IPv6 address, destination IPv6 address, L4 port, protocol type, etc;

Support MLD v1/v2 snooping(Multicast Listener Discovery snooping)

3). GPON Functions

- Tcont DBA
- Gemport traffic
- In compliant with ITU-T984.x standard
- Up to 20KM transmission Distance
- Support data encryption, multi-cast, port VLAN, separation, RSTP, etc
- Support ONT auto-discovery/link detection/remote upgrade of software
- Support VLAN division and user separation to avoid broadcast storm
- Support power-off alarm function, easy for link problem detection
- Support broadcasting storm resistance function
- Support port isolation between different ports
- Support ACL and SNMP to configure data packet filter flexibly
- Specialized design for system breakdown prevention to maintain a stable system
- Support RSTP, IGMP Proxy

Technical Parameters

| Item | | GPON OLT 8 Port |
|--|-----------------------|---|
| Chassis | Rack | 1U 19 Inch Standard Box |
| Uplink Port | QTY | 8 |
| | RJ45(GE) | 4 |
| | SFP(GE) | 2 |
| | SFP+(10GE) | 2 |
| GPON Port | QTY | 8 |
| | Physical Interface | SFP Slots |
| | Connector Type | Class (Class C++/Class C+++) |
| | Max splitting ratio | 1:128 |
| Management Ports | | 1*10/100/1000BASE-T out-band port, 1*CONSOLE port, 1*USB 2.0 |
| Backplane Bandwidth (Gbps) | | 104 |
| Port Forwarding Rate(Mpps) | | 65.472 |
| PON Port Specification (Class C+++module) | Transmission Distance | 20KM |
| | GPON port speed | Upstream 1.244Gbps, Downstream 2.488Gbps |
| | Wavelength | TX 1490nm, RX 1310nm |
| | Connector | SC/UPC |
| | Fiber Type | 9/125μm SMF |
| | TX Power | +4.5~+10dBm |
| | Rx Sensitivity | ≤-30dBm |

| | | |
|---------------------|--------------------------|--|
| | Saturation Optical Power | -12dBm |
| Management Mode | | EMS, TR069 VACS, WEB, SNMP, Telnet , CLI |
| Dimension (L*W*H) | | 442mm*320mm*43.6mm |
| Net weight | | 4.05KG |
| Gross weight | | 5.65KG |
| Power Consumption | | 45W |
| Working Temperature | | 0°C ~ +50°C |
| Storage Temperature | | -40~+85°C |
| Relative Humidity | | 5~90% (non-conditioning) |