



V1600G0-B

Layer3 GPON OLT

The V1600G0-B is a pizza-box GPON OLT with 4 PON ports that meets flexible and fast FTTx access, suiting the scenarios such as sparse/remote/cost-sensitive area, smart industrial park, commercial building and FTTM, etc.

Highlights

- **Compact design, meets various application scenarios**

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

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

- **Small size and lightweight, easier to delivery and install**

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, ensure the safe operation of network**

Supports uplink redundancy protection including LACP STP, RSTP and MSTP, and support 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.

Technical Specifications

| Item | | V1600G0-B |
|----------------------------|----------------------------|---|
| Chassis | Rack | 1U 19Inch Standard Box |
| Uplink Port | QTY | 4 |
| | RJ45(GE) | 2 |
| | SFP(GE)/SFP+(10GE) | 2 |
| GPON Port | QTY | 4 |
| | Physical Interface | SFP Slots |
| | Max splitting ratio | 1:128 |
| Management Ports | | 1*10/100/1000BASE-T out-band port, 1*CONSOLE port, 1*USB2.0 |
| Backplane Bandwidth (Gbps) | | 104 |
| Port Forwarding Rate(Mpps) | | 47.616 |
| PON Port Specification | 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 |
| | Supported PON module level | Class B+, C, C+, C++, C+++ |
| Power Supply | AC | Working Voltage Range: 100~240V, Rated Voltage: 110V/220V |
| | DC | Working Voltage Range: -36~-75V, Rated Voltage: -48V/-60V |
| Management Mode | | EMS, WEB, SNMP, Telnet , CLI |

Management Function

- SNMP, Telnet, CLI, WEB, SSH v2;
- Fan Group Control
- Port Status monitoring and configuration management
- Online ONT configuration and management
- User management
- Alarm management

Layer2 Switch

- 32K Mac address
- Support 4096 VLANs
- Support port 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 flowcontrol
- Port stability statistic 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 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)

GPON Function

- Tcont DBA
- Gempport 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 stable system
- Support RSTP

Dimension (L*W*H)

- 442mm*229mm*43.6mm

Weight

- Net weight of single power: 2.95kg
- Gross weight of single power: 4.15kg

Power Consumption

- 35W

Working Temperature

- -20°C ~+60°C

Storage Temperature

- -40~+70°C

Relative Humidity

- 5~95% (non-condensing)

Ordering Information:

| Product Name | Product Description | Power Configuration | Accessories |
|--------------|---------------------------|--|---|
| V1600G0-B | 4*GPON, 2*RJ45+2*SFP/SFP+ | 1*AC power 2*AC power 2*DC power 1*AC power + 1* DC power | GPON SFP C++ module GPON SFP C+++ module 1G SFP module 10G SFP+ module |