



## OP-100P4G

Layer3 GPON OLT

The OP-100P4G 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                       |                            | OP-100P4G                                                   |
|----------------------------|----------------------------|-------------------------------------------------------------|
| 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 ONTconfiguration 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)