



DP-1616GP

Layer3 GPON OLT

The DP-1616GP is a pizza-box GPON OLT with 16 GPON 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		DP-1616GP
Chassis	Rack	1U 19Inch Standard Box
GE/10GE Uplink Port	QTY	8
	RJ45(GE)	4
	SFP(GE)/SFP+(10GE)	4
GPON Port	QTY	16
	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*USB2.0, 1*Type-C USB (for console)
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

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 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 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 802.1X, Radius, Tacacs+
- Support IP source guard
- Support static route, dynamic route RIP v1/v2, RIPv6 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, IGMP Proxy

Dimension (L*W*H)

- 442mm*320mm*43.6mm

Weight

- Net weight of single power: 4.80kg
- Gross weight of single power: 6.40kg

Power Consumption

- 85W

Working Temperature

- 0°C ~+50°C

Storage Temperature

- -40~+85°C

Relative Humidity

- 5~90% (non-conditioning)

Ordering Information:

Product Name	Product Description	Power Configuration	Accessories
DP-1616GP	16*GPON, 4*RJ45+4*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

