

High-density Pizza-box GPON OLT

GP3600-C Series

Product Overview

Vivio GP3600-C Series complies with ITU-T G.984/G.988 and meets requirements about GPON OLT in Network Access Technical Requirements. It fully supports CTC2.0, automatic discovery and cooperation with ONUs of different manufacturers.

Vivio GP3600-C Series supports the Asymmetric uplink 1.25Gbps/downlink 2.5Gbps PON transmission rate, efficient bandwidth usage and Ethernet services, helping carriers to provide reliable services to their users.

Its coupling ratio ups to 1:128, and its support of different hybrid ONU networks minimizes the carrier's investment.

Vivio GP3600-C Series supports routing functions such as RIP, OSPF and BGP.

Vivio GP3600-C Series, based on the edge-cutting technologies, is strong in functions and QoS guarantee, SLA and DBA can be easily listed out.



Product Characteristics

GPON: Abiding by ITU-T G.984/G.988, Vivio GP3600-C Series OLT meets relevant requirements of GPON OLT regulated in Network Access Technical Requirements and China Telecom GPON Technical Requirements CTC2.0;

System capacity: GP3600-C Series supports 4/16 GPON ports.

Uplink interface: GP3600-C Series is equipped with 4 Gigabit RJ45 ports, 4/8 GE SFP+ ports and 2 40GE QSFP+ ports.

Dimensions: 1U, occupies a small space.

Environmental protection: low power consumption and low operating cost.

Bus optical fiber protection: the link can be automatically switched when trouble occurs in the optical fiber;

Power supply: supports dual-AC, dual-DC and AC/DC power supply. The power supply supports modularized design, hot-swap and EMC-3 standard. It well adapts to the environment.



Support 1.25Gbps uplink and 2.5Gbps downlink bandwidth



Efficient bandwidth usage and Ethernet services



The Splitting ratio ups to 1:128

Model Lists

GP3600-04C

Pizza-box GPON OLT



- 4-Port GPON
- 4-Port Gigabit RJ45
- 4-Port 10G SFP+

GP3600-08C

High-density Pizza-box GPON OLT



- 8-Port GPON
- 4-Port Gigabit RJ45
- 8-Port 10G SFP+

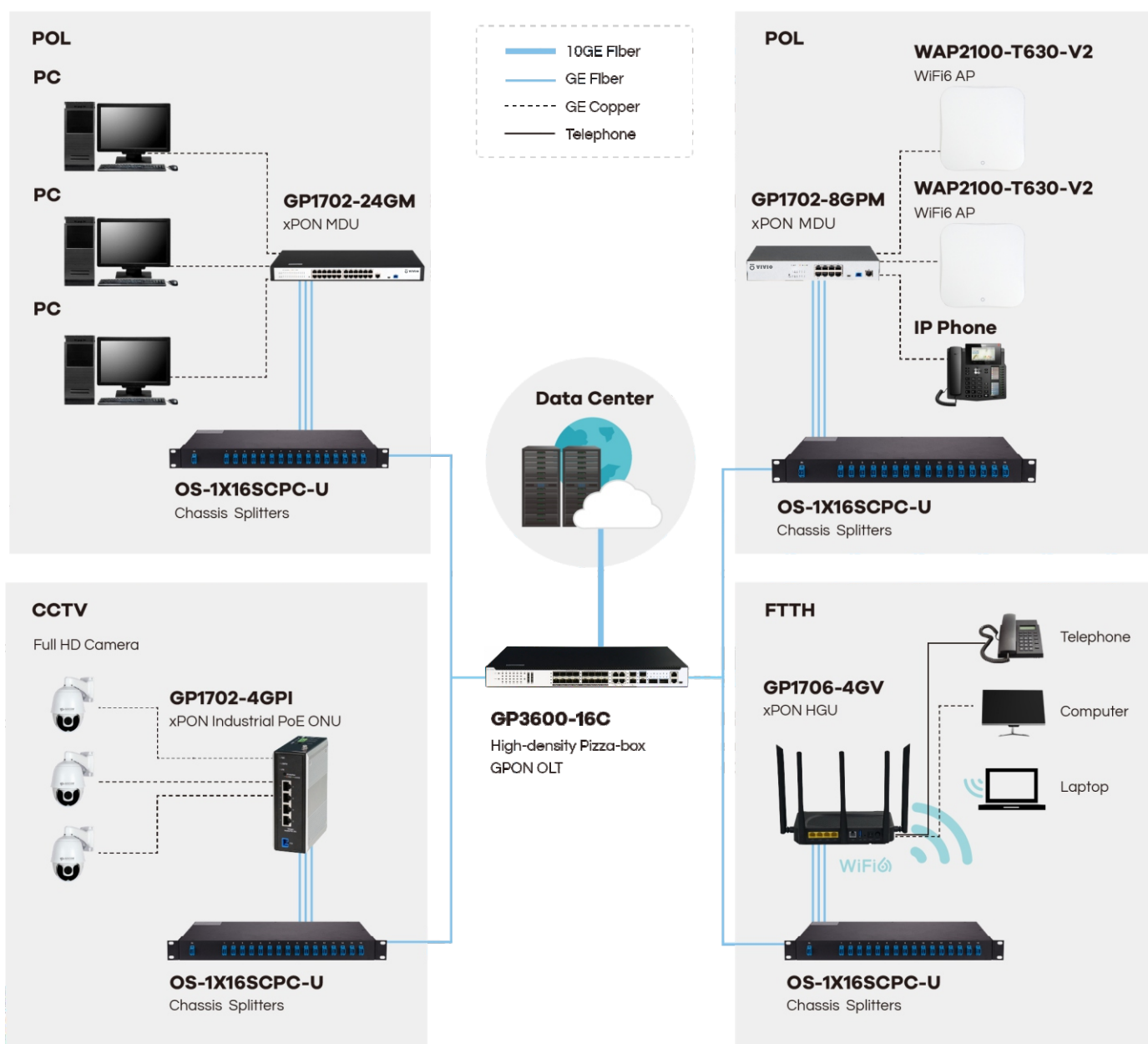
GP3600-16C

High-density Pizza-box GPON OLT



- 16-Port GPON
- 4-Port Gigabit RJ45
- 4-Port 10G SFP+
- 2-Port 40G QSFP+

Application Diagram



VIVIO GP3600-C Series

System Performance

Item	GP3600-04C	GP3600-08C	GP3600-16C
Service interface			
PON ports	4	8	16
Gigabit RJ45	4	4	4
10G SFP+	4	8	4
40G QSFP+	/	/	2
Supported GPON SFP module	Class C+/C++/C+++/D+		
Management interface			
RJ45 console			1
Mini-USB console			1
Out-of-Band			1
System capacity			
DRAM (GB)			4
Flash (GB)			2
Backplane (Gbps)	216Gbps	880Gbps	880Gbps
MAC table	32K	128K	128K
Jumbo frame (KB)			9
IPv4 routing table			8K
IPv6 routing table			2K
Active VLAN			4,094
SVI number			1K
Forwarding mode	Store-and-forward		

Technical Specifications

Standards

- ITU-T G.984/G.988
- IEEE 802.11D, Spanning Tree
- IEEE 802.1Q, VLAN
- IEEE 802.1w, RSTP
- IEEE 802.3ad physical link static/dynamic aggregation (LACP), Ethernet - II

VLAN

- Port/IP/Protocol/MAC-based VLAN
- 4K VLAN
- QinQ and flexible QinQ

Multicast

- L2 multicast
- IGMP snooping
- MLD snooping
- Fast-leave

Layer 3 Function

- Static route
- RIPV1/v2
- OSPF
- BGP

QoS

- Backpressure flow control (half duplex)
- IEEE 802.3x flow control (full duplex)
- IEEE 802.1p, CoS
- WRR, SP and FIFO queue schedule
- Limiting the uplink/downlink rate based on each ONU
- DBA and SLA

Reliability

- Unidirectional Link Detection (UDLD)
- Hot swap of the EPON optical module
- Optical path protection of EPON (type B/C, hand-in-hand)
- Abnormal luminescence ONU detection such as long luminescence
- IEEE 802.3ad LACP

DHCP Function

- Server/Relay/Client
- DHCP snooping
- DHCP option 66,67,82
- DAI
- IP source guard

Network Security

- L2~4 ACL
- Flow-based ACL
- MAC limitation
- MAC sticky
- Port isolation
- Packet storm control
- Transmission data encryption on the PON interface
- Anti attack for DDOS, TCP-SYN-flood, UDP-flood, ARP-flood, etc.

Management

- Various management modes such as CLI, Telnet, SSH, HTTP, SSL and SNMP
- ISSU
- FTP/TFTP
- SPAN/RSPAN
- NTP

Network Availability

- STP/RSTP/MSTP
- BPDU guard
- EAPS

VIVIO GP3600-C Series

Physical Characteristics

Item	GP3600-04C	GP3600-08C	GP3600-16C	
Power supply				
AC (V)		100-240		
DC (V)		36-72		
Power slots	1 fixed AC	2	2	
Max. consumption (W)	35	60	70	
Total output BTU (note: 1000 BTU/hr = 293W)	170.6	204.8	238.9	
Cooling system				
Fan number	3	3	4	
Air-flow	Left-right	Left-right	Front-back	
Noise@25°C(dBA)	< 50	< 50	< 55	
Appearance				
Chassis	Dimensions(WxDxH mm)	440.5 x 280 x 44.5	442x280x44	442x280x44
	Weight (Kg)(empty)	3.8	4.2	4.5
Package	Dimensions(WxDxH mm)	576 x 448 x 94	576 x 448 x 94	576 x 448 x 94
	Weight (Kg)	4.8	5.2	5.5
Environmental specifications				
Operating	Temperature		0~50°C	
	Humidity (non-condensing)		10%-85%	
Storage	Temperature		-40°C-80°C	
	Humidity (non-condensing)		5%-95%	
Accessories				
Parts		Power cord, rackmount kits, console cable		
Reliability				
MTBF (Hr)		200,000		

Ordering Information

Model	Description
GP3600-04C	4-port GPON OLT with 4-port fixed PON (excluding OLT SFP module) + 4-port GE RJ45 + 4-port 10G SFP+; (built-in single AC100-240V power supply, 19-inch rack-mounted installation)
GP3600-08C	8-Port GPON OLT with 4-Port Gigabit RJ45 + 8-Port 10G SFP+ (2 power slots, single hot-swap AC 100-240V power supply, 19-inch rack-mounted installation)
GP3600-16C	16-Port GPON OLT with 4-Port Gigabit RJ45 + 4-Port 10G SFP+ 2-Port 40G QSFP+ (2 power slots, single hot-swap AC 100-240V power supply, 19-inch rack-mounted installation)
PWR-100-DC	Hot-swap DC power supply for OLT (Max Power 100W, DC-36 ~ -72V input)
PWR-100-AC	Hot-swap AC power supply for OLT (Max Power 100W, AC100-240V input)
OLT-GSFP-C+	OLT SFP module, Class C+ standard, downlink 2.5G/uplink 1.25G, TX wavelength 1490nm, RX wavelength 1310nm, SC interface
OLT-GSFP-C++	OLT SFP module, Class C++ standard, downlink 2.5G/uplink 1.25G, TX wavelength 1490nm, RX wavelength 1310nm, SC interface
OLT-GSFP-C+++	OLT SFP module, Class C+++ standard, downlink 2.5G/uplink 1.25G, TX wavelength 1490nm, RX wavelength 1310nm, SC interface