

## High-density Pizza-box GPON OLT

# GP3600-D Series

### Product Overview

BDCOM GP3600-D 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.

BDCOM GP3600-D 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.

BDCOM GP3600-D Series supports routing functions such as RIP, OSPF and BGP.

BDCOM GP3600-D 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, BDCOM GP3600-D 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-D Series supports 4/8 GPON ports.

**Uplink interface:** GP3600-D Series is equipped with 4 GE RJ45 ports and 4 10GE SFP+ 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.



Support 1.25Gbps uplink and 2.5Gbps downlink bandwidth



Efficient bandwidth usage and Ethernet services



The Splitting ratio ups to 1:128

# Model

## GP3600-04D

Access-level Pizza-box GPON OLT



- 4-Port GPON
- 4-Port 10G SFP+
- 4-Port Gigabit RJ45
- 1-Port console
- 1-Port Gigabit out-band

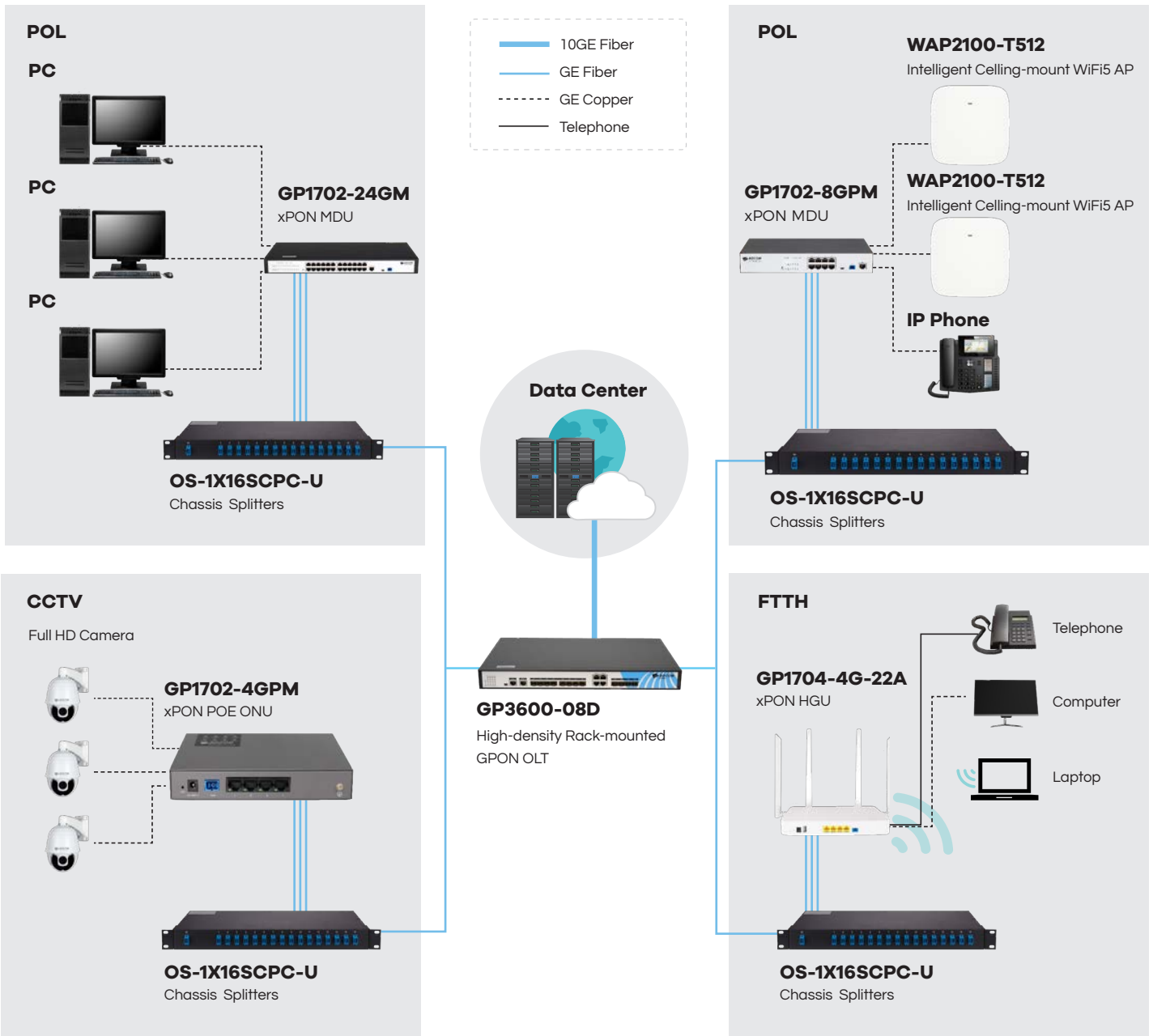
## GP3600-08D

High-density Pizza-box GPON OLT



- 8-Port GPON
- 4-Port 10G SFP+
- 4-Port Gigabit RJ45
- 1-Port console
- 1-Port Gigabit out-band

# Application Diagram



## System Performance

Item	GP3600-04D	GP3600-08D
<b>Service interface</b>		
PON ports	4	8
GE uplink	4-Port Gigabit RJ45	4-Port Gigabit RJ45
10GE uplink	4-Port 10G/GE SFP+	4-Port 10G/GE SFP+
Supported GPON SFP module	Class B+, C+, C++, C+++	Class B+, C+, C++, C+++
<b>Management interface</b>		
RJ45 console		1
Mini-USB console		1
Out-of-Band		1
<b>System capacity</b>		
DRAM (MB)		512
Flash (MB)		32
Backplane (Gbps)		126
MAC table		64K
Buffer size (MB)		2
Jumbo frame (KB)		2
IPv4 routing table		32K
IPv6 routing table		8K
Active VLAN		4,094
SVI number		400
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)
- 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 Availability

- STP/RSTP/MSTP
- BPDU guard
- EAPS

### 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

## Physical Characteristics

Item	GP3600-04D	GP3600-08D
<b>Power supply</b>		
AC (V)	100~240	100~240
Max. consumption (W)	50	60
Total output BTU (note: 1000 BTU/hr = 293W)	170.65	204.8
<b>Cooling system</b>		
Fan number	3	
Air-flow	Left-right	
Noise@25°C(dBA)	< 45	
<b>Appearance</b>		
Chassis	Dimensions(WxDxH mm)	440.5 x 280 x 44.5
	Weight (Kg)(empty)	3.8
Package	Dimensions(WxDxH mm)	576 x 448 x 94
	Weight (Kg)	4.8
<b>Environmental specifications</b>		
Operating	Temperature	0~45°C
	Humidity (non-condensing )	10%~85%
Storage	Temperature	-40°C-80°C
	Humidity (non-condensing )	5%-95%
<b>Accessories</b>		
Parts	Power cord, rackmount kits, console cable	
<b>Reliability</b>		
MTBF (Hr)	95,000	
Certification	CE, FCC, ROHS	

# Ordering Information

Model	Description
BDCOM GP3600-04D	4-Port GPON OLT with 4-Port Gigabit RJ45 + 4-Port 10G SFP+ (single 100-240V power supply, 19-inch rack-mounted installation)
BDCOM GP3600-04D-2AC	4-Port GPON OLT with 4-Port Gigabit RJ45 + 4-Port 10G SFP+ (dual 100-240V power supply, 19-inch rack-mounted installation)
BDCOM GP3600-08D	8-Port GPON OLT with 4-Port Gigabit RJ45 + 4-Port 10G SFP+ (single 100-240V power supply, 19-inch rack-mounted installation)
BDCOM GP3600-08D-2AC	8-Port GPON OLT with 4-Port Gigabit RJ45 + 4-Port 10G SFP+ (dual 100-240V power supply, 19-inch rack-mounted installation)
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

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