

## Rack-Mounted GPON OLT

# GP3600-04L

### Product Overview

BDCOM GP3600-04L 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 GP3600-04L 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 GP3600-04L supports routing functions such as RIP and OSPF.

BDCOM GP3600-04L, 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 GP3600-04L OLT meets relevant requirements of GPON OLT regulated in Network Access Technical Requirements and China Telecom GPON Technical Requirements CTC2.0;

**System capacity:** GP3600-04L supports 4 GPON ports.

**Uplink interface:** GP3600-04L 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

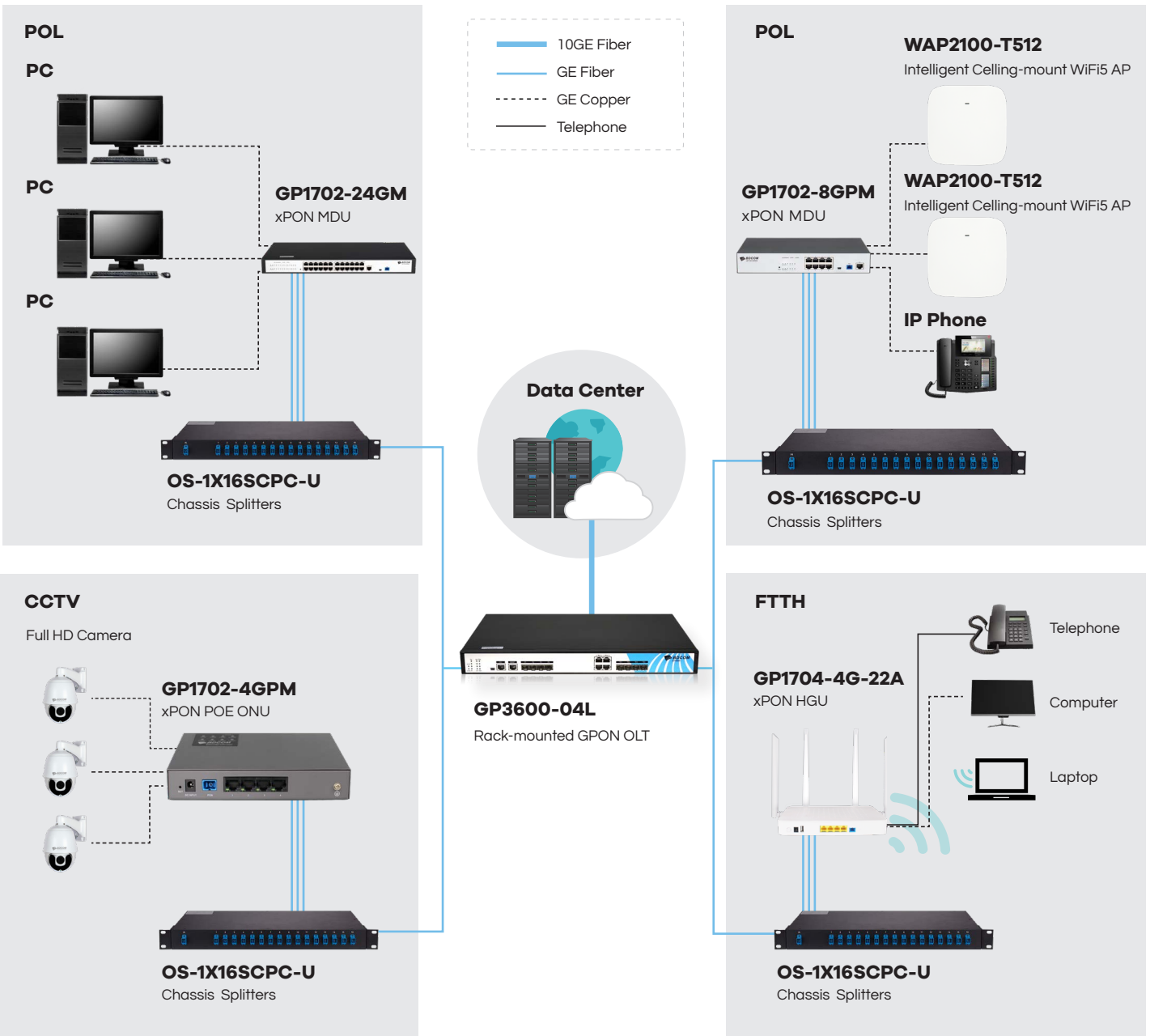
## GP3600-04L

Rack-Mounted GPON OLT



- 4-Port GPON
- 4-Port 10G/GE SFP+
- 4-Port Gigabit RJ45
- 1-Port Console
- 1-Port out-band

# Application Diagram



# System Performance

Item	GP3600-04L
<b>Service interface</b>	
PON ports	4
GE uplink	4-Port Gigabit RJ45
10GE uplink	4-Port 10G/GE SFP+
Supported GPON SFP module	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)	176
MAC table	24K
Buffer size (MB)	2
Jumbo frame (KB)	2
IPv4 routing table	32K
IPv6 routing table	8K
Active VLAN	4,094
SVI number	512
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

### 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	GP3600-04L	
<b>Power supply</b>		
AC (V)	100~240	
Max. consumption (W)	60	
Total output BTU (note: 1000 BTU/hr = 293W)	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)	> 100,000	
Certification	CE, FCC, ROHS	

# Ordering Information

Model	Description
BDCOM GP3600-04L	4-port GPON OLT with 4-Port PON (excluding OLT SFP module) + 4-Port Gigabit RJ45 + 4-Port 10GE/GE SFP+; (built-in single AC100~240V power supply, 19-inch rack-mounted installation)
BDCOM GP3600-04L-2AC	4-port GPON OLT with 4-Port PON (excluding OLT SFP module) + 4-Port Gigabit RJ45 + 4-Port 10GE/GE SFP+; (built-in dual AC100~240V power supply, 19-inch rack-mounted installation)
OLT-GSFP-B+	OLT SFP module (Class B+ 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)
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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