

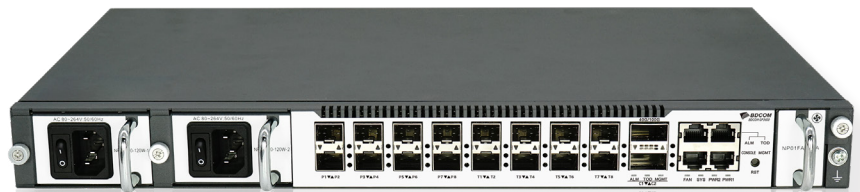
## Rack-mounted XGS-PON Combo OLT

# GP3600-8CGP

### Product Overview

BDCOM GP3600-8CGP is newly launched NG-PON OLT which complies with ITU-T G.984/G.987/G.988 and PRC Community Industry Standard "Technical requirements for access network-Gigabit-capable passive optical network (GPON)", and fully abides by the CTC2.0 standard to automatically discover and work harmoniously with ONUs of different manufacturers. GP3600-8CGP provides GPON, XG-PON, and XGS-PON access, which can be widely used in FTTx access of operators to achieve smooth transition from GPON to XG-PON or XGS-PON, and can also be used in the construction of POL solutions such as government and enterprise parks and campus networks to meet rapidly growing business demands.

BDCOM GP3600-8CGP OLT, with the splitting ratio of up to 1:256, supports ONU hybrid network and smooth upgrade of GPON, XG-PON, and XGS-PON, which minimizes the operator's investment.



BDCOM GP3600-8CGP OLT, based on the edge-cutting technologies, is strong in functions. A few of its functions such as QoS guarantee, SLA and DBA can be easily listed out.

### Product Characteristics

BDCOM GP3600-8CGP OLT is an optical network device suitable for the current market demand, with following advantages:

GP3600-8CGP OLT complies with ITU-T G.984/G.987/G.988, PRC Community Industry Standard "Technical requirements for access network - Gigabit-capable passive optical network (GPON)", and China Telecom GPON Technical Requirement CTC2.0.

PON port: 8-port XGS-PON Combo supports access of GPON ONU, XG-PON ONU and XGS-PON ONU.

Uplink port: 8-Port 10G SFP+, 2-Port 100G QSFP28

Support multiple link redundancy protocols such as FlexLink/STP/RSTP/MSTP/ERPS/LACP

Dimensions: 1U height, compact

Environmental protection: low power consumption and low operating cost.

Supports redundant power supply, supports pluggable power supply and pluggable fan



Supports 100Gbps uplink and downlink bandwidth



Efficient bandwidth usage and Ethernet services



The Splitting ratio ups to 1:256

# Model Lists

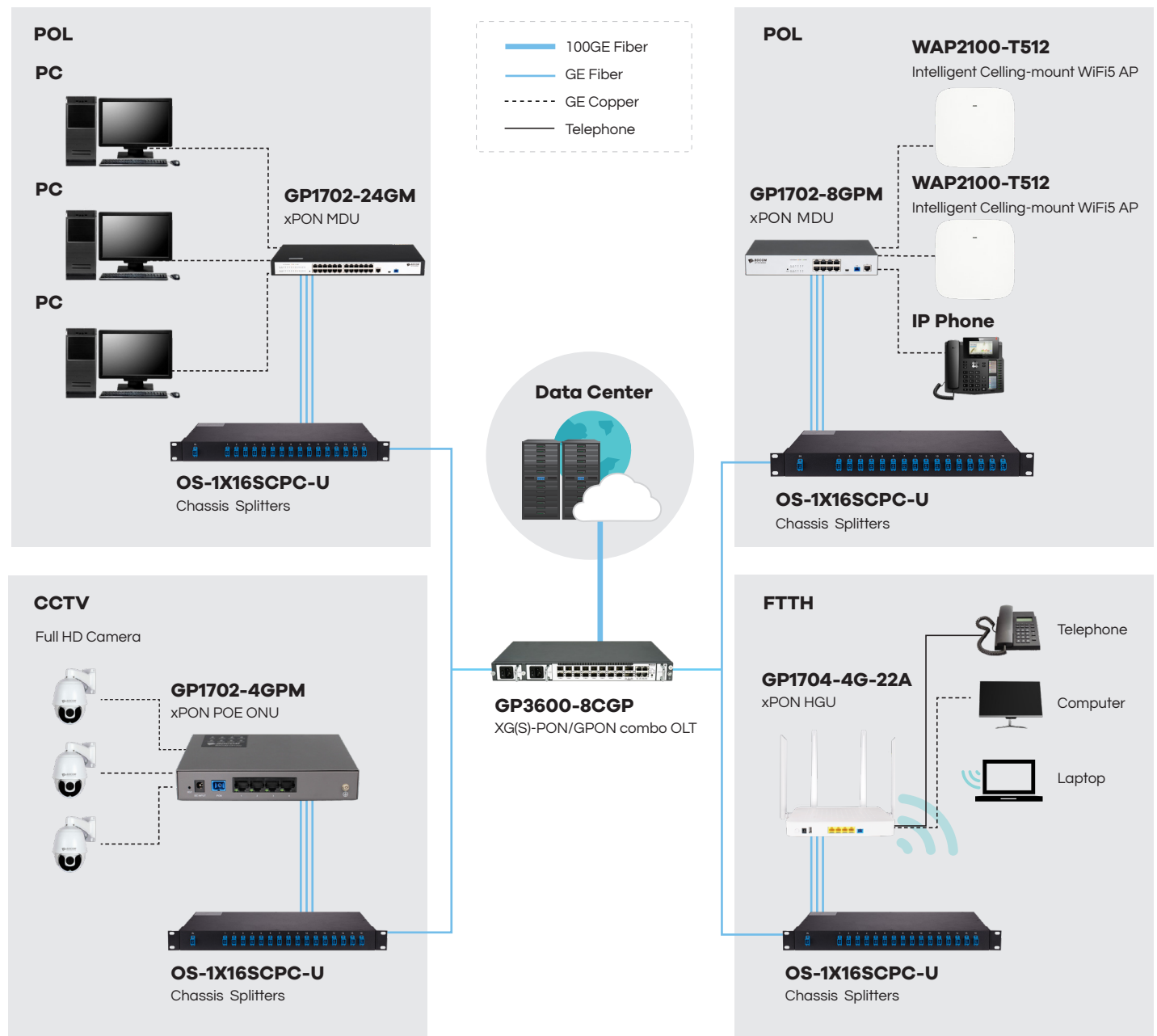
## GP3600-8CGP

Rack-mounted XGS-PON Combo OLT



- 1-Port Console
- 1-Port Gigabit out-band
- 8-Port XG(S)-PON/GPON combo
- 8-Port 10G SFP+
- 2-Port 100G QSFP28

# Application Diagram



# System Performance

Item	GP3600-8CGP
<b>Service interface</b>	
PON ports	8 XG(S)-PON/GPON combo
10G/1G uplink	8
100G/40G uplink	2
Supported GPON SFP module	Class C+, C++, C+++
<b>Management interface</b>	
RJ45 console	1
Out-of-Band	1
<b>System capacity</b>	
DRAM (MB)	512
Flash (MB)	32
Backplane (Gbps)	720
MAC table	128K
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.987/G.988
- PRC Community Industry Standard "Technical requirements for access network - Gigabit-capable passive optical network (GPON)
- China Telecom GPON Technical Requirement CTC2.0
- IEEE 802.1D, Spanning Tree
- IEEE 802.1Q, VLAN
- IEEE 802.1w, RSTP
- IEEE 802.3ad-based LACP

## VLAN

- Supports 4K VLAN 802.1Q
- Supports VLAN based on port, MAC and protocol
- Supports dual-Tag VLAN function, port-based static QinQ and flexible QinQ function

## Multicast

- L2 Multicast
- IGMP Snooping
- MLD Snooping

## QoS

- Supports traffic rate limiting based on custom business flow
- Supports packet mirroring and packet redirection based on custom service flows
- Supports priority marking based on custom service flow, support Remark of 802.1P, DSCP priority
- WRR, SP and FIFO queue schedule
- Supports port-based priority scheduling function, supports queue scheduling
- algorithms such as SP/WRR/SP+WRR

## Management

- Supports Console/Telnet/SSH2.0 command line configuration
- Supports WEB configuration
- Supports FTP, TFTP file upload and download management
- Supports SNMP V1/V2/V3
- Supports RMON
- Supports SNTP clock
- Supports SysLog

## Network Security

- Supports user hierarchical management and password protection
- Supports IEEE 802.1X authentication/centralized MAC authentication
- Supports Radius&TACACS+ authentication
- Supports MAC address learning number limit, supports black hole MAC function
- Supports SSH 2.0, providing a secure encrypted channel for user login
- Supports SNMP v3 encrypted management
- Supports port isolation, hardware isolation of port packets
- Supports broadcast packet rate suppression
- Supports IP Source Guard to automatically create IP+MAC+port+VLAN binding table, and supports manual binding table entries
- Supports DHCP Option82 and PPPoE+
- Supports ARP flood attack automatic suppression and ARP spoofing protection
- Support the prevention of various DOS attacks and virus attacks against the CPU on the control layer

# Physical Characteristics

Item	GP3600-8CGP	
<b>Power supply</b>		
AC (V)		100~240
DC (V)		36~72
Power slots		2
Max. consumption (W)		80
Total output BTU (note: 1000 BTU/hr = 293W)		273
<b>Cooling system</b>		
Fan number		3
Air-flow		Left-right
Noise@25°C(dBA)		< 45
<b>Appearance</b>		
Chassis	Dimensions(WxDxH mm)	440 x 270 x 44
	Weight (Kg)(empty)	less than 7kg
Package	Dimensions(WxDxH mm)	576 x 448 x 94
	Weight (Kg)	8.5
<b>Environmental specifications</b>		
Operating	Temperature	0~50°C
	Humidity (non-condensing )	10%~85%
Storage	Temperature	-40°C~70°C
	Humidity (non-condensing )	10%~95% non-condensing
<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 GP3600-8CGP	8-port XGS-PON combo OLT with 8-port XGS-PON combo (excluding PON module) + 4-port 10GE SFP+ 2-port 100G QSFP28; (2 power slots, single hot-swap AC100~240V power supply, 19-inch rack-mounted installation)
BDCOM GP3600-8CGP-DC	8-port XGS-PON combo OLT with 8-port XGS-PON combo (excluding PON module) + 4-port 10GE SFP+ 2-port 100G QSFP28; (2 power slots, single hot-swap DC36~72V power supply, 19-inch rack-mounted installation)
PWR-CGP-DC	DC power supply of OLT (Input voltage: DC36V~72V)
PWR-CGP-AC	AC power supply of OLT (Input voltage: AC100~240V)
OLT-CGG-C+	XGS-PON Combo OLT SFP+ module

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