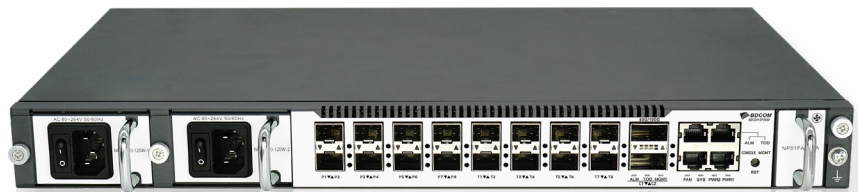Rack-mounted XGS-PON Combo OLT

GP3600-8CGP

Product Overview

BDCOM GP3600-8CGP is newly launched NG-PON OLT which is 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 andDBA 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 ad pluggable fan

Supports 100Gbps uplink and downlink bandwidth

Efficient bandwidth usage and Ethernet services
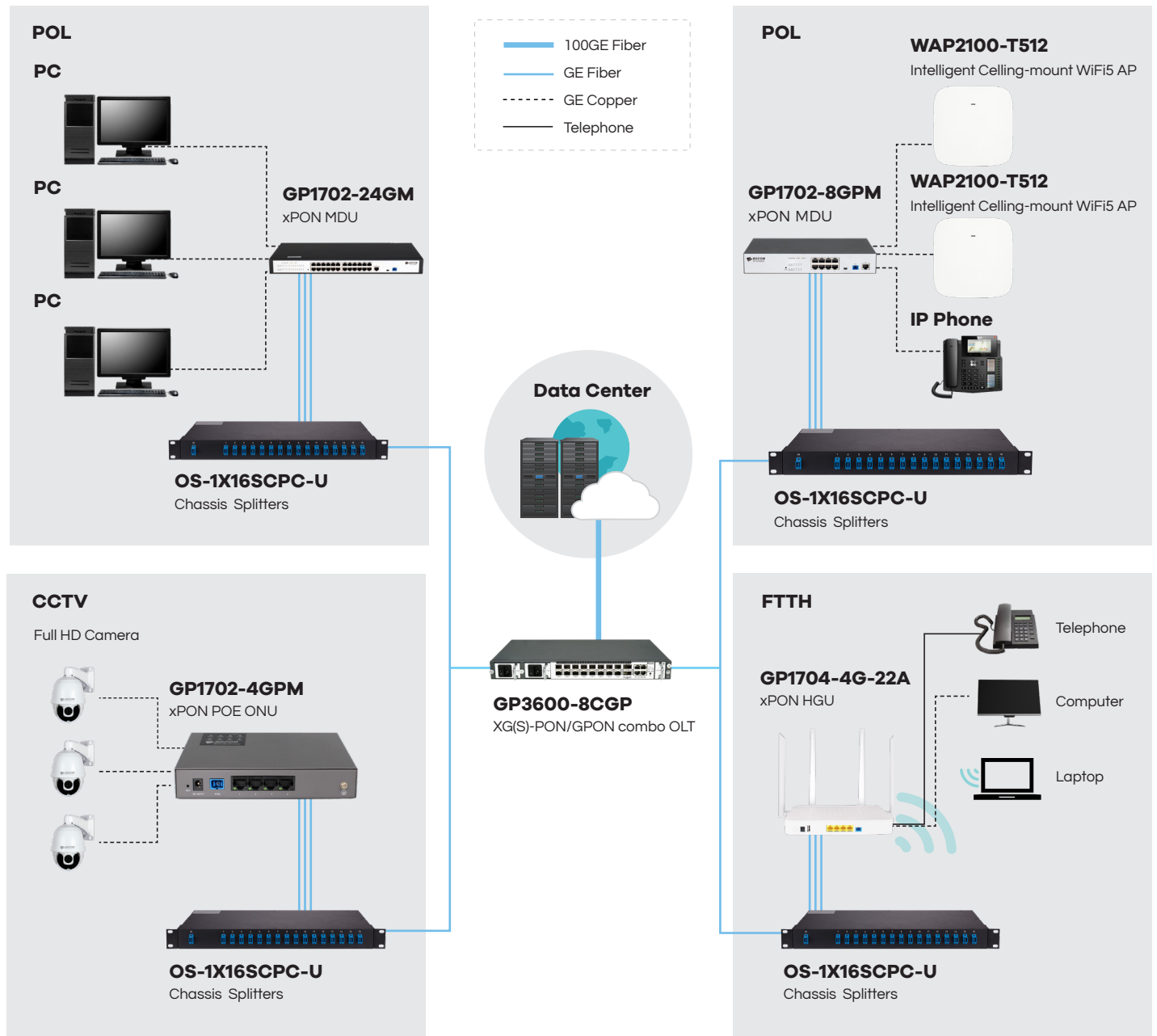
The Splitting ratio ups to 1:256

Model

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

POL

PC

PC

PC

GP1702-24GM
xPON MDU

OS-1X16SCPC-U
Chassis Splitters

Legend:
- 100GE Fiber
- GE Fiber
- GE Copper
- Telephone

Data Center

POL

WAP2100-T512
Intelligent Celling-mount WiFi5 AP

WAP2100-T512
Intelligent Celling-mount WiFi5 AP

GP1702-8GPM
xPON MDU

IP Phone

OS-1X16SCPC-U
Chassis Splitters

CCTV

Full HD Camera

GP1702-4GPM
xPON POE ONU

OS-1X16SCPC-U
Chassis Splitters

GP3600-8CGP
XG(S)-PON/GPON combo OLT

FTTH

Telephone

Computer

Laptop

GP1704-4G-22A
xPON HGU

OS-1X16SCPC-U
Chassis Splitters

System Performance

Item	GP3600-8CGP
Service interface	
PON ports	8 XG(S)-PON/GPON combo
10G/1G uplink	8
100G/40G uplink	2
Supported PON SFP module	GPON，XGPON，XGSPON，XGPON combo，XGSPON combo
Management interface	
RJ45 console	1
Out-of-Band	1
System capacity	
DRAM (GB)	2
Flash (GB)	8
Backplane (Gbps)	800Gbps
MAC table	128K
Buffer size (MB)	9
Jumbo frame (KB)	9
IPv4 routing table	8K
IPv6 routing table	8K
Active VLAN	4K
SVI number	256
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 laye

Physical Characteristics

Item	GP3600-8CGP
Power supply	
AC (V)	100~240
DC (V)	36~72
Power slots	2
Max. consumption (W)	100
Total output BTU (note: 1000 BTU/hr = 293W)	341
Cooling system	
Fan number	3
Air-flow	Left-right
Noise@25°C(dBA)	< 55
Appearance	
Chassis — Dimensions(WxDxH mm)	440 x 270 x 44
Chassis — Weight (Kg)(empty)	4.3
Package — Dimensions(WxDxH mm)	515 x460x 112
Package — Weight (Kg)	5.8
Environmental specifications	
Operating — Temperature	-10~50°C
Operating — Humidity (non-condensing)	10%~95%
Storage — Temperature	-40°C~70°C
Storage — Humidity (non-condensing)	10%~95% non-condensing
Accessories	
Parts	Power cord, rackmount kits, console cable
Reliability	
MTBF (Hr)	200,000
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) + 8-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) + 8-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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