

GP3600 Series

High-density Pizza-box GPON OLT

Product Overview

BDCOM GP3600 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 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 minimize the carrier's investment.

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

BDCOM GP3600 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 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 Series supports 4/8/16 GPON ports.

Uplink Interface: GP3600 Series is equipped with maximum 4 GE SFP ports, 4 GE combo 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;

Power Characteristics: 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

GP3600-04

Pizza-box GPON OLT



- 1 console port
- 1 out-band 10/100M port
- 4 fixed PON ports
- 4 GE TX ports
- 4 10GE/GE SFP+ ports

GP3600-08

High-density Pizza-box GPON OLT



- 1 console port
- 1 out-band 10/100M port
- 8 fixed PON ports
- 4 10GE SFP+ ports
- 4 GE SFP ports
- 4 GE TX/SFP combo ports

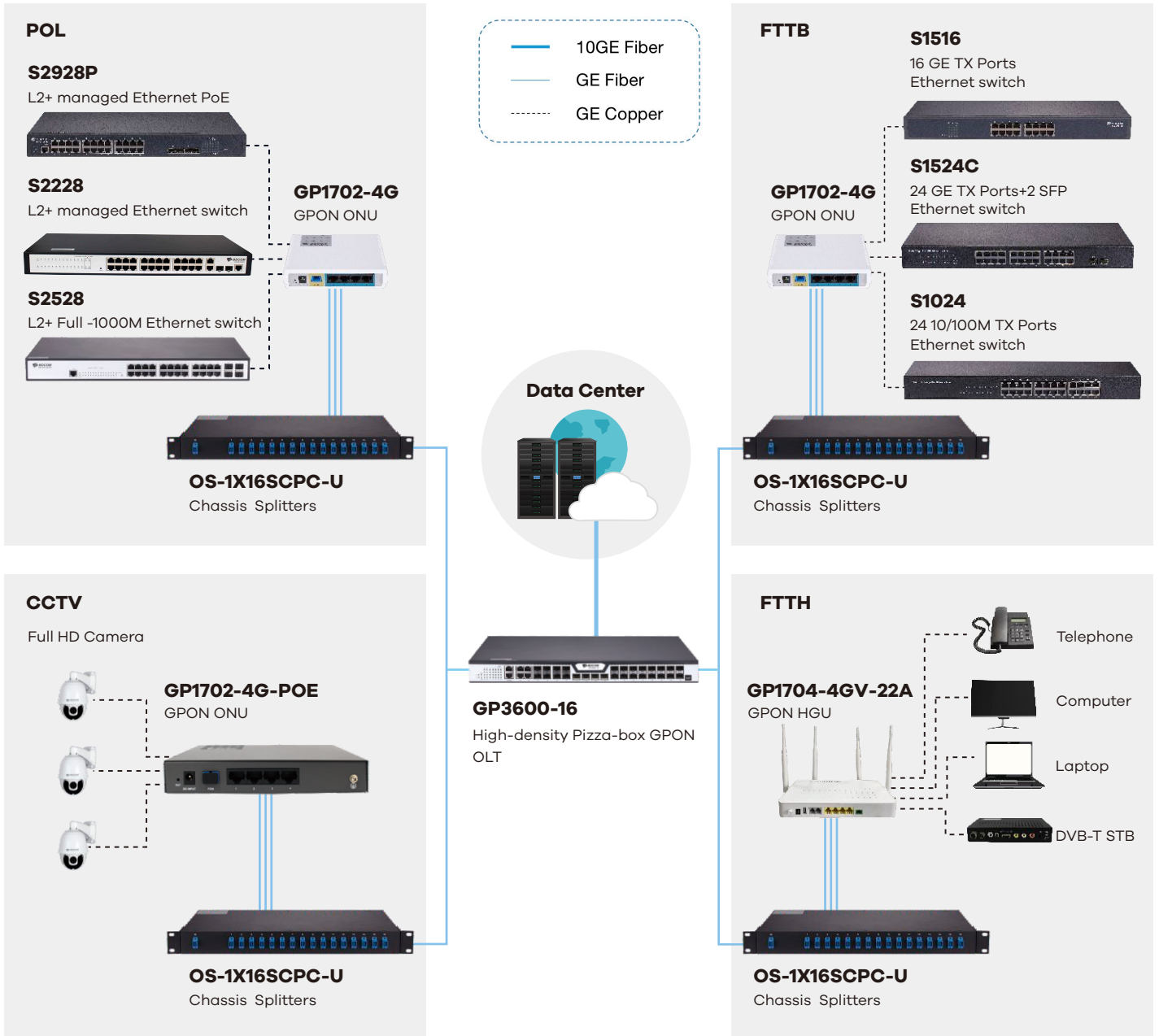
GP3600-16

High-density Pizza-box GPON OLT



- 1 console port
- 1 out-band 10/100M port
- 16 fixed PON ports
- 4 10GE SFP+ ports
- 4 GE SFP ports
- 4 GE TX/SFP combo ports

Application Diagram



BDCOM GP3600 Series

System Performance

| Item | GP3600-04 | GP3600-08 | GP3600-16 |
|-----------------------------|-------------------------------|-------------------------------|-------------------------------|
| Service interface | | | |
| PON ports | 4 | 8 | 16 |
| GE uplink | 4 GE TX | 4 100/1000M SFP + 4 GE SFP/TX | 4 100/1000M SFP + 4 GE SFP/TX |
| 10GE uplink | 4 10GE/GE SFP+ | 4 10GE SFP+ | 4 10GE SFP+ |
| Supported GPON SFP module | Class B+, Class C+, Class C++ | | |
| Management interface | | | |
| RJ45 console | 1 | | |
| Mini-USB console | 1 | | |
| Out-of-Band | 1 | | |
| System capacity | | | |
| DRAM (MB) | 1024 | | |
| Flash (MB) | 32 | | |
| Backplane (Gbps) | 176 | | |
| MAC table | 40K | | |
| Buffer size (MB) | 3 | | |
| Jumbo frame (KB) | 9 | | |
| 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
- 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 GPON optical module
- Optical path protection of GPON (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

Physical Characteristics

| Item | GP3600-04 | GP3600-08 | GP3600-16 | |
|--|----------------------------|------------------|---|------------------|
| Power supply | | | | |
| AC (V) | | 90 ~ 264 | | |
| DC (V) | | 36~72 | | |
| Power slots | | 2 | | |
| Max. consumption (W) | 50 | 60 | 70 | |
| Total output BTU (note: 1000 BTU/hr = 293W) | 170.6 | 204.8 | 238.9 | |
| Cooling system | | | | |
| Fan number | | 3 | | |
| Air-flow | | Left-right | | |
| Noise@25°C(dBA) | | < 45 | | |
| Appearance | | | | |
| Chassis | Dimensions(WxDxH mm) | 442.5 x 304 x 44 | 442.5 x 304 x 44 | 442.5 x 304 x 44 |
| | Weight (Kg)(empty) | 5.3 | 5.5 | 5.6 |
| Package | Dimensions(WxDxH mm) | 576 x 448 x 94 | 576 x 448 x 94 | 576 x 448 x 94 |
| | Weight (Kg) | 6.2 | 6.4 | 6.5 |
| 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) | | 95,000 | | |
| Certification | | CE, FCC, ROHS | | |

Ordering Information

| Model | Description |
|--------------------|--|
| BDCOM GP3600-04 | GPON OLT with 4 PON ports (1 console port, 1 out-band 10/100M port, 4 fixed PON ports (excluding the OLT SFP module), 4 GE TX ports, 4 10GE SFP+ ports; 2 power slots with 1 hot-swap AC220V power supply; 19-inch rack-mounted installation) |
| BDCOM GP3600-04-DC | GPON OLT with 4 PON ports (1 console port, 1 out-band 10/100M port, 4 fixed PON ports (excluding the OLT SFP module), 4 GE TX ports, 4 10GE SFP+ ports; 2 power slots with 1 hot-swap DC36-72V power supply; 19-inch rack-mounted installation) |
| BDCOM GP3600-08 | GPON OLT with 8 PON ports (1 console port, 1 out-band 10/100M port, 8 fixed PON ports (excluding the OLT SFP module), 4 GE SFP ports, 4 GE TX/SFP combo ports, 4 10GE SFP+ ports; 2 power slots with 1 hot-swap AC220V power supply; 19-inch rack-mounted installation) |
| BDCOM GP3600-08-DC | GPON OLT with 8 PON ports (1 console port, 1 out-band 10/100M port, 8 fixed PON ports (excluding the OLT SFP module), 4 GE SFP ports, 4 GE TX/SFP combo ports, 4 10GE SFP+ ports; 2 power slots with 1 hot-swap DC36-72V power supply; 19-inch rack-mounted installation) |
| BDCOM GP3600-16 | GPON OLT with 16 PON ports (1 console port, 1 out-band 10/100M port, 16 fixed PON ports (excluding the OLT SFP module), 4 GE SFP ports, 4 GE TX/SFP combo ports, 4 10GE SFP+ ports; 2 power slots with 1 hot-swap AC220V power supply; 19-inch rack-mounted installation) |
| BDCOM GP3600-16-DC | GPON OLT with 16 PON ports (1 console port, 1 out-band 10/100M port, 16 fixed PON ports (excluding the OLT SFP module), 4 GE SFP ports, 4 GE TX/SFP combo ports, 4 10GE SFP+ ports; 2 power slots with 1 hot-swap DC36-72V power supply; 19-inch standard rack-mounted installation) |
| PWR-75-DC | Hot-swap DC power supply for OLT (Max Power 75W, DC-36 ~ -72V input) |
| PWR-75-AC | Hot-swap AC power supply for OLT (Max Power 75W, AC100-240V input) |
| 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 |

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