

P3608B

High-density Rack-mounted EPON OLT

Product Overview

BDCOM P3608B Series complies with IEEE802.3ah and PRC Community Industry Standard (YD/T 1475-2006). It fully supports CTC2.1/3.0 standard, automatic detection and works harmoniously with ONUs made by different manufacturers.

BDCOM P3608B Series supports the symmetric uplink/downlink 1.25Gbps PON transmission rate, efficient bandwidth usage and Ethernet services, helping carriers to provide reliable services to their users.

Its coupling ratio ups to 1:64, and its support of different hybrid ONU networks minimizes the carrier's investment.

BDCOM P3608B Series, based on the edge-cutting technologies, is strong in functions and QoS guarantee. SLA and DBA can be easily listed out.



Product Characteristics

BDCOM P3608B Series has following advantages:

EPON: Abiding by IEEE802.3ah, BDCOM P3608B Series meets relevant requirements of EPON OLT regulated in Technical Requirements of "YD/T 1475-2006 and China Telecom EPON Technical Requirements.

System capacity: BDCOM P3608B Series supports 8 EPON ports.

Uplink interface: BDCOM P3608B Series with 8 GE uplink interfaces (4 GE SFP ports + 4 GE TX/SFP combo ports) and 2 10G uplink ports.

Dimension: 1U, occupies a small space.

Environmental protection: low power consumption and low operating cost.

Layer-3 function: BDCOM P3608B OLT supports layer-3 routing function.

Preventing the bus optical fiber: BDCOM P3608B Series supports that the link can be automatically switched to protect the optical fiber when trouble occurs in the optical fiber.

Power supply: BDCOM P3608B Series supports dual-AC, dual-DC and AC/DC dual power supply. The power supply supports modularized design, hot-swap and EMC-3 standard. It well adapts to the environment.



Support 1.25Gbps uplink/downlink bandwidth



Efficient bandwidth usage and Ethernet services



The coupling ratio ups to 1:64

Model list

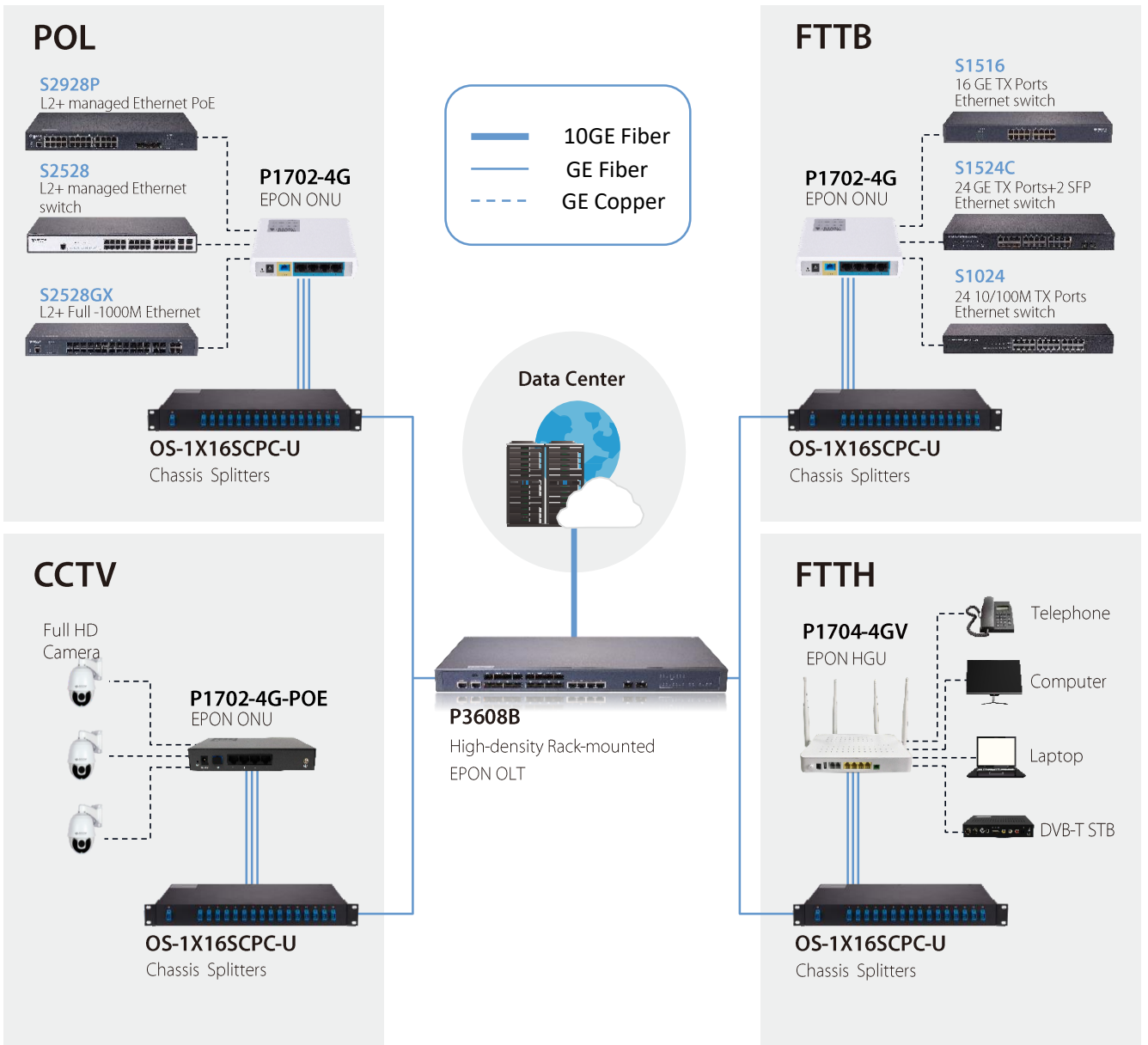
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- 1 console port
- 8 fixed PON ports
- 2 10GE SFP+ ports
- 1 out-band 10/100M port
- 4 GE SFP ports
- 4 GE combo TX/SFP ports

Application Diagram



System Performance

Items	P3608B
Service Interface	
PON ports	8
GE uplink	4 100/1000M SFP + 4 GE TX/SFP combo
10GE uplink	2 10GE/GE SFP+
Supported EPON SFP module	PX20, PX20+, PX20++
Management interface	
RJ45 console	1
Mini-USB console	1
Out-of-Band	1
System capacity	
DRAM (MB)	512
Flash (MB)	32
Backplane (Gbps)	72
MAC table	32K
Buffer size (MB)	3
IPv4 routing table	32K
IPv6 routing table	8K
Jumbo frame (KB)	2
Active VLAN	4094
Total SVI	400
Forwarding mode	Store-and-forward

Technical Specifications

Standards

- IEEE802.3ah
- YD-T 1475-2006 access network requires EPON basis
- YD-T 1771-2008 access network requires EPON intercommunication
- China Telecom EPON standard CTC2.1/3.0
- 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)
- Hot swap of the EPON optical module
- Optical path protection of EPON (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, SSL and SNMP
- ISSU
- FTP/TFTP
- Debug output
- NTP

Network Availability

- STP/RSTP/MSTP
- BPDU guard
- EAPS

Physical Characteristics

Items		P3608B
Power supply		
AC (V)		90 ~ 264
DC (V)		36~72
Power slots		2
Hot-swap		Support
Max. consumption (W)		75
Total output BTU (note: 1000 BTU/hr = 293W)		256
Cooling system		
Fan number		2
Air-flow		Left-right
Noise@25°C (dBA)		< 45
Appearance		
Chassis	Dimensions (WxDxH mm)(empty)	442.5 x300 x 44
	Weight (Kg)	5
Package	Dimensions (WxDxH mm)	576 x 448 x 94
	Weight (Kg)	5.9
Environmental Specifications		
Operating	Temperature	0~45°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
P3608B	OLT with 8 EPON ports (1 console port, 1 out-of-band management 10/100M port, 8 integrated PON ports (excluding the OLT SFP module), 4 GE TX/SFP combo ports, 4 GE SFP ports; 1 AC90-264V power supply, expansible to dual power supply, 19-inch rack-mounted; customized 2 10GE SFP+ ports)
P3608B-DC	OLT with 8 EPON ports (1 console port, 1 out-of-band management 10/100M port, 8 integrated PON ports (excluding the OLT SFP module), 4 GE TX/SFP combo ports, 4 GE SFP ports; 1 36-72VDC power supply, expansible to dual power supply, 19-inch rack-mounted; 2 10GE SFP+ ports)
PWR-150-DC	OLT DC power supply (input voltage DC36V~72V, 150W max power)
PWR-150-AC	OLT AC power supply (input voltage AC90~240v, 150W max power)
OLT-GSFP-20+	OLT SFP module, PX 20+ standard, downlink 1.25G/uplink 1.25G, TX wavelength 1490nm, RX wavelength 1310nm, SC interface