

P3600 Series

High-density Pizza-box EPON OLT

Product Overview

BDCOM P3600 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. P3600 Series has 2 models: P3608B and P3616-2TE.

BDCOM P3600 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 P3600 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 P3600 Series has following advantages:

EPON: Abiding by IEEE802.3ah, BDCOM P3600 Series meets relevant requirements of EPON OLT regulated in Technical Requirements of "YD/T 1475-2006 and China Telecom EPON Technical Requirements.

System capacity: P3600 Series supports 8 and 16 EPON ports.

Uplink interface: P3600 Series with 8 GE uplink interfaces (4 GE SFP ports + 4 GE 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 P3600 Series supports layer-3 routing function.

Preventing the bus optical fiber: BDCOM P3600 Series supports layer-3 routing function.

Power supply: BDCOM P3600 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

P3608B

High-density Pizza-box EPON OLT



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

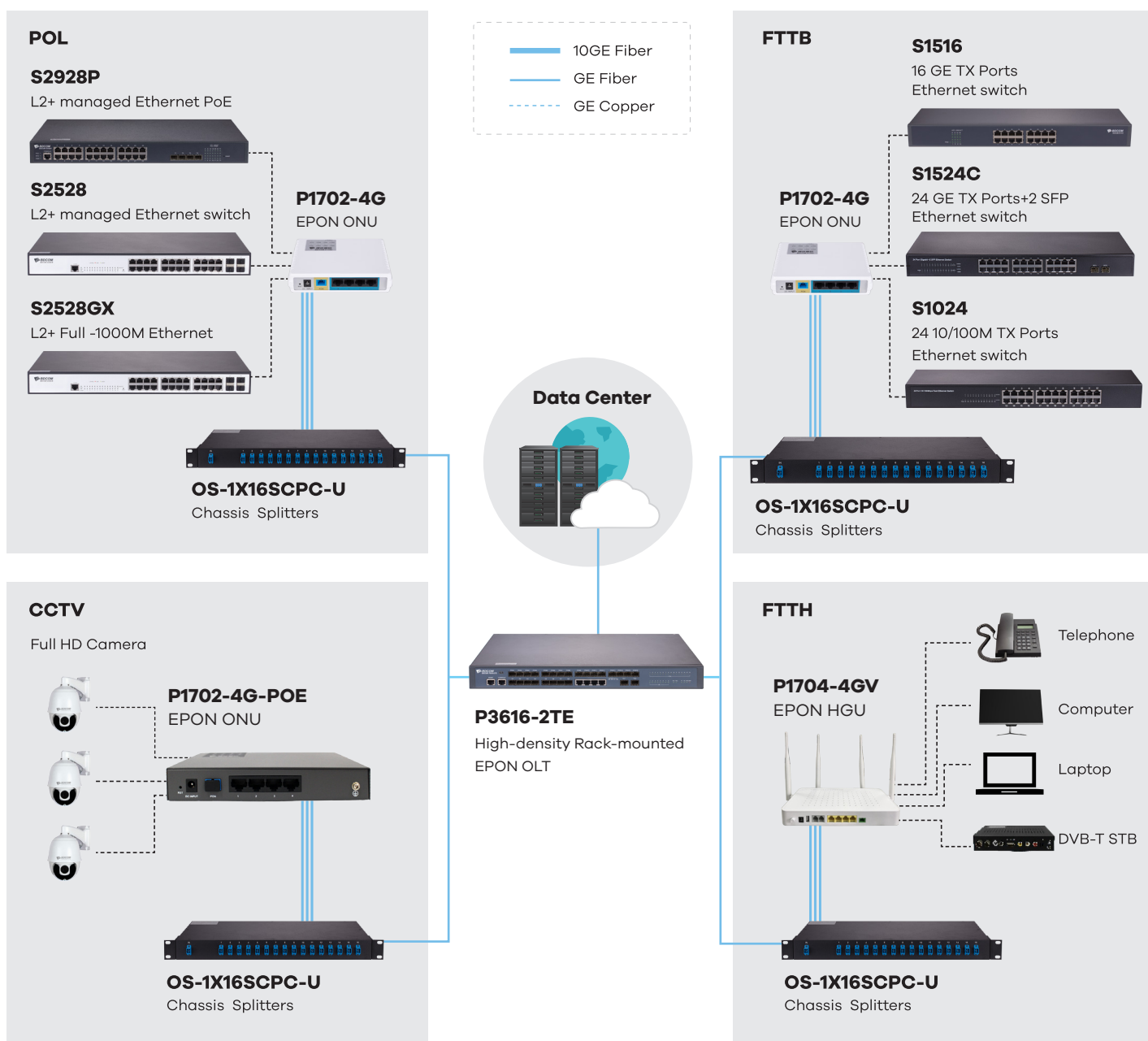
P3616-2TE

High-density Pizza-box EPON OLT



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

Application Diagram



System Performance

Item	P3608B	P3616-2TE
Service interface		
PON ports	8	16
GE uplink	4 100/1000M SFP + 4 GE TX/SFP	4 100/1000M SFP + 4 GE TX/SFP
10GE uplink	2 10GE/GE SFP+	2 10GE/GE SFP+
Supported GPON SFP module	PX20, PX20+, PX20++	PX20, PX20+, PX20++
Management interface		
RJ45 console	1	1
Mini-USB console	1	1
Out-of-Band	1	1
System capacity		
DRAM (MB)	512	256
Flash (MB)	32	32
Backplane (Gbps)	72	88
MAC table	32K	32K
IPv4 routing table	32K	12K
IPv6 routing table	8K	6K
Buffer size (MB)	3	2
Jumbo frame (KB)	2	2
Active VLAN	4,094	4,094
Total SVI	400	400
Forwarding mode	Store-and-forward	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

- CLI, Telnet, SSH, HTTP/HTTPS and SNMP
- ISSU
- FTP/TFTP
- SPAN
- NTP

Network Availability

- STP/RSTP/MSTP
- BPDU guard
- EAPS

Physical Characteristics

Item		P3608B	P3616-2TE
Power supply			
AC (V)		90 ~ 264	90 ~ 264
DC (V)		36~72	36~72
Power slots		2	2
Hot-swap		Support	Support
Max. consumption (W)		70	105
Total output BTU (note: 1000 BTU/hr = 293W)		256	439.3
Cooling system			
Fan number		2	2
Air-flow		Left-right	Left-right
Noise@25°C(dBA)		< 45	< 45
Appearance			
Chassis	Dimensions(WxDxH mm)	442.5 x300 x 44	442.5 x300 x 44
	Weight (Kg)(empty)	5	5.7
Package	Dimensions(WxDxH mm)	576 x 448 x 94	576 x 448 x 94
	Weight (Kg)	5.9	6.6
Environmental specifications			
Operating	Temperature	0~45°C	0~45°C
	Humidity (non-condensing)	10%~85%	10%~85%
Storage	Temperature	-40°C-80°C	-40°C-80°C
	Humidity (non-condensing)	5%-95%	5%-95%
Accessories			
Parts		Power cord, rackmount kits, console cable	Power cord, rackmount kits, console cable
Reliability			
MTBF (Hr)		95,000	90,000
Certification		CE, FCC, ROHS	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, expandable to dual power supply, 19-inch rack-mounted; 2 10GE SFP+ ports)
P3608-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, expandable to dual power supply, 19-inch rack-mounted; 2 10GE SFP+ ports)
P3616-2TE	OLT with 16 EPON ports (1 console port, 1 out-of-band management 10/100M port, 16 integrated PON ports (excluding the OLT SFP module), 4 GE TX/SFP combo ports, 4 GE SFP ports; 1 AC90-264V power supply, expandable to dual power supply, 19-inch rack-mounted; 2 10GE SFP+ ports)
P3616-2TE-DC	OLT with 16 EPON ports (1 console port, 1 out-of-band management 10/100M port, 16 integrated PON ports (excluding the OLT SFP module), 4 GE TX/SFP combo ports, 4 GE SFP ports; 1 36-72VDC power supply, expandable 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
OLT-GSFP-20++	OLT SFP module, PX 20++ standard, downlink 1.25G/uplink 1.25G, TX wavelength 1490nm, RX wavelength 1310nm, SC interface