

P3600 Series

High-density
Rack-mounted
EPON OLT

Product Overview

BDCOM P3600 Series complies with IEEE802.3ah and PRC Community Industry Standard (YD/T 1475-2006), and fully abides by the CTC2.1/3.0 standard. P3600 Series can automatically discover and work harmoniously with ONUs made by different manufacturers to build efficient EPON solutions. Currently, P3600 Series has 4 models: P3600-04/08/08E/16E.

BDCOM P3600 OLT 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.

The splitting ratio of up to 1:64 enables it to support the hybrid networking of different types of ONUs, which minimizes the operator's investment.

BDCOM P3600, based on the industry-leading 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 P3600 Series has following advantages:

EPON: BDCOM P3600 Series complies with IEEE802.3ah and PRC Community Industry Standard (YD/T 1475-2006), and China Telecom EPON Technical Requirement CTC2.1/3.0.

System capacity: P3600 Series supports 4/8/16 EPON systems.

Uplink port: P3600 Series are all equipped with 4 GE TX ports, 4/6 10GE uplink ports. Among them, P3600-08E/16E features 4 Gigabit SFP ports.

Dimension: 1U, less than 300mm (Depth).

Environmental protection: low power consumption and low operating cost.

Layer-3 function: supports layer-3 routing function.

Bus optical fiber protection: P3600 Series supports automatic link protection when trouble occurs in the optical fiber.

Power characteristics: supports dual power supply. The power supply of P3600-08E/16E 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

P3600-04

High-density Pizza-box EPON OLT



- 4 PON ports
- 4 GE TX ports
- 4 10GE/GE SFP+ ports

P3600-08

High-density Pizza-box EPON OLT



- 8 PON ports
- 4 GE TX ports
- 4 10GE/GE SFP+ ports

P3600-08E

High-density Pizza-box EPON OLT



- 8 PON ports
- 4 GE TX ports
- 4 GE SFP ports
- 6 10GE/GE SFP+ ports

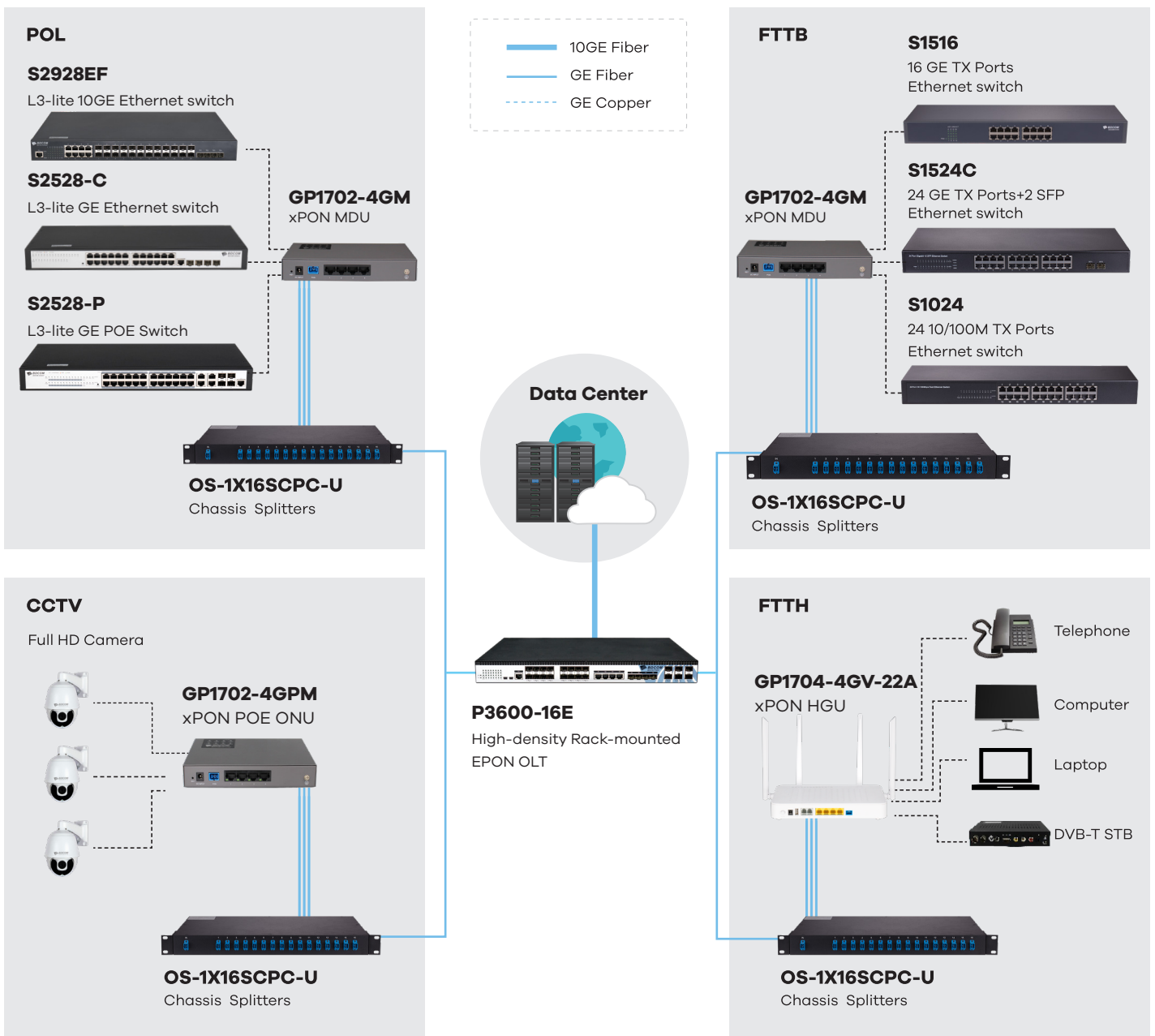
P3600-16E

High-density Pizza-box EPON OLT



- 16 PON ports
- 4 GE TX ports
- 4 GE SFP ports
- 6 10GE/GE SFP+ ports

Application Diagram



System Performance

Item	P3600-04	P3600-08	P3600-08E	P3600-16E
Service interface				
PON ports	4	8	8	16
GE uplink	4 GE TX	4 GE TX	4 GE TX 4 GE SFP	4 GE TX 4 GE SFP
10GE uplink	4 10GE/GE SFP+	4 10GE/GE SFP+	6 10GE/GE SFP+	6 10GE/GE SFP+
Supported GPON SFP module	PX20+, PX20++, PX20+++	PX20+, PX20++, PX20+++	PX20+, PX20++, PX20+++	PX20+, PX20++, PX20+++
Management interface				
RJ45 console	1	1	1	1
Mini-USB console	1	2	1	2
System capacity				
DRAM (MB)	512	512	512	512
Flash (MB)	32	32	32	32
Backplane (Gbps)	128	128	216	216
MAC table	16K	16K	32K	32K
IPv4 routing table	6K	6K	12K	12K
IPv6 routing table	2K	2K	4K	4K
Buffer size (MB)	3	3	3	2
Jumbo frame (KB)	2	2	2	3
Active VLAN	4,094	4,094	4,094	4,094
Total SVI	128	128	512	512
Forwarding mode	Store-and-forward	Store-and-forward	Store-and-forward	Store-and-forward

Technical Specifications

Standards

- IEEE 802.3ah
- YD-T 1475-2006
- YD-T 1771-2008
- China Telecom EPON Technical Requirement CTC2.1/3.0
- IEEE 802.1D/1W, Spanning Tree, RSTP; IEEE 802.1Q, VLAN
- IEEE 802.3ad-based LACP
- Ethernet-II

VLAN

- Port-based VLAN
- QinQ and flexible QinQ

Multicast

- IGMP Snooping
- Controllable Multicast

Layer 3 Function

- Static routing, RIPv1/v2, OSPF
- RIP, OSPF, RIPv3, OSPFv3

QoS

- Backpressure flow control (half duplex)
- IEEE 802.3x flow control (full duplex)
- IEEE 802.1p, CoS
- WRR, SP and FIFO
- ONU-based uplink/downlink rate limit
- DBA and SLA

Reliability

- Unidirectional Link Detection (UDLD)
- Hot swap of the EPON optical module on the expanded slot
- Optical link protection of EPON
- Abnormal luminescence ONU detection such as long luminescence

DHCP Function

- Server/Relay/Client
- DHCP snooping
- DHCP option 66,67,82
- DAI
- IP source guard

Network Security

- Limiting the maximum number of users on each port
- Port isolation
- Packet storm control
- Flow-based ACL access control function
- Transmission data encryption on the PON port

Management

- CLI, SNMP, Telnet, HTTP/HTTPS
- Software upgrade through TFTP/FTP
- Debug output

Network Availability

- STP/RSTP/MSTP
- BPDU guard
- EAPS

Physical Characteristics

Item	P3600-04	P3600-08	P3600-08E	P3600-16E	
Power supply					
AC (V)	100-240	100-240	100-240	100-240	
DC (V)	36-72	36-72	36-72	36-72	
Power slots	/	/	2	2	
Hot-swap	/	/	Support	Support	
Max. consumption (W)	35	50	65	95	
Total output BTU (note: 1000 BTU/hr = 293W)	119.45	170.65	221.84	324.23	
Cooling system					
Fan number	2	2	4	4	
Air-flow	Left-right	Left-right	Left-right	Left-right	
Noise@25°C(dBA)	< 45	< 45	< 49	< 49	
Appearance					
Chassis	Dimensions(WxDxH mm)	442.5 x280 x 44	442.5 x280 x 44	442.5 x300 x 44	442.5 x300 x 44
	Weight (Kg)(empty)	3.3	3.3	4.8	4.8
Package	Dimensions(WxDxH mm)	576*448*94	576*448*94	576*448*94	576*448*94
	Weight (Kg)	4.3	4.3	5.8	5.8
Environmental specifications					
Operating	Temperature	0~45°C	0~45°C	0~45°C	0~45°C
	Humidity (non-condensing)	10%-85%	10%-85%	10%-85%	10%-85%
Storage	Temperature	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C
	Humidity (non-condensing)	5%-95%	5%-95%	5%-95%	5%-95%
Accessories					
Parts	Power cord, rackmount kits, console cable	Power cord, rackmount kits, console cable	Power cord, rackmount kits, console cable	Power cord, rackmount kits, console cable	
Reliability					
MTBF (Hr)	200,000	200,000	200,000	200,000	
Certification	CE, FCC, ROHS	CE, FCC, ROHS	CE, FCC, ROHS	CE, FCC, ROHS	

Ordering Information

Model	Description
BDCOM P3600-04	4-port EPON OLT(1 CONSOLE,4 EPON port(excluding OLT SFP module),4 GE TX ports,4 10GE SFP+ ports;single AC100~240V power supply,19-inch rack-mounted installation)
BDCOM P3600-04-DC	4-port EPON OLT(1 CONSOLE,4 EPON port(excluding OLT SFP module),4 GE TX ports,4 10GE SFP+ ports;single DC36~72V power supply,19-inch rack-mounted installation)
BDCOM P3600-04-2AC	4-port EPON OLT(1 CONSOLE,4 EPON port(excluding OLT SFP module),4 GE TX ports,4 10GE SFP+ ports;dual AC100~240V power supply,19-inch rack-mounted installation)
BDCOM P3600-04-2DC	4-port EPON OLT(1 CONSOLE,4 EPON port(excluding OLT SFP module),4 GE TX ports,4 10GE SFP+ ports;dual DC36~72V power supply,19-inch rack-mounted installation)
BDCOM P3600-08	8-port EPON OLT(1 CONSOLE,8 EPON port(excluding OLT SFP module),4 GE TX ports,4 10GE SFP+ ports;single AC100~240V power supply,19-inch rack-mounted installation)
BDCOM P3600-08-DC	8-port EPON OLT(1 CONSOLE,8 EPON port(excluding OLT SFP module),4 GE TX ports,4 10GE SFP+ ports;single DC36~72V power supply,19-inch rack-mounted installation)
BDCOM P3600-08-2AC	8-port EPON OLT(1 CONSOLE,8 EPON port(excluding OLT SFP module),4 GE TX ports,4 10GE SFP+ ports;dual AC100~240V power supply,19-inch rack-mounted installation)
BDCOM P3600-08-2DC	8-port EPON OLT(1 CONSOLE,8 EPON port(excluding OLT SFP module),4 GE TX ports,4 10GE SFP+ ports;dual DC36~72V power supply,19-inch rack-mounted installation)
BDCOM P3600-8E	8-port EPON OLT(1 CONSOLE,8 EPON port(excluding OLT SFP module),4 GE TX ports,4 GE SFP ports, 6 10GE SFP+ ports,dual hot-swap power slots with single AC100~240V power supply,19-inch rack-mounted installation)
BDCOM P3600-16E	16-port EPON OLT(1 CONSOLE,16 EPON port(excluding OLT SFP module),4 GE TX ports,4 GE SFP ports, 6 10GE SFP+ ports,dual hot-swap power slots with single AC100~240V power supply,19-inch rack-mounted installation)
BDCOM P3600-8E-DC	8-port EPON OLT (1 CONSOLE,8 EPON port(excluding OLT SFP module),4 GE TX ports, 4 GE SFP ports, 6 10GE SFP+ ports, dual hot-swap power slots with single DC36~ 72V power supply, 19-inch rack-mounted installation)
BDCOM P3600-16E-DC	16-port EPON OLT(1 CONSOLE,16 EPON port(excluding OLT SFP module),4 GE TX ports,4 GE SFP ports, 6 10GE SFP+ ports,dual hot-swap power slots with single DC36~72V power supply,19-inch rack-mounted installation)
PWR-150-ACB	P3600-08E/16E OLT power supply(AC100~240V,150W,built-in cooling fan)
PWR-100-DC	P3600-08E/16E OLT power supply(DC36~72V,100W,built-in cooling fan)
OLT-GSFP-20+	OLT SFP module (PX20+ standard, uplink/downlink 1.25G, TX wavelength 1490nm, RX wavelength 1310nm, SC interface)
OLT-GSFP-20++	OLT SFP module (PX20++ standard, uplink/downlink 1.25G, TX wavelength 1490nm, RX wavelength 1310nm, SC interface)
OLT-GSFP-20+++	OLT SFP module (PX20+++ standard, uplink/downlink 1.25G, TX wavelength 1490nm, RX wavelength 1310nm, SC interface)

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