

# P3310D

## High Performance Pizza-box EPON OLT

### Product Overview

BDCOM P3310D Series complies with IEEE802.3ah and P.R.C intercommunication standard, YD/T 1475-2006, supports CTC2.1/3.0 standard, automatically discovers and cooperates with ONUs of different manufacturers. It can be used for establishing efficient EPON solution.

BDCOM P3310D 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 P3310D Series, based on the edge-cutting technologies, is strong in functions and QoS guarantee, SLA and DBA can be easily listed out.



### Product Characteristics

P3310D Series abides by IEEE802.3ah and PRC Community Industry Standard (YD/T 1475-2006). It adopts the point-to-multipoint network topology, effectively collects separate Ethernet services and aggregates them on the MAN node. It connects the upper-layer devices through the GE interface and can be connected to the existing network smoothly.

The Dynamic Bandwidth Allocation (DBA) mechanism enables all users to share the 1Gbps bandwidth reasonably, guaranteeing a reliable QoS.

The modularized PON card of P3310D Series can support four EPON systems simultaneously, up to 256 ONUs and the 1/64 coupling ratio..

P3310D Series supports the IGMP multicast and the multicast VLAN.

P3310D Series is of a 1U height and low power consumption.

P3310D Series supports the link automatic switching when trouble occurs in the optical fiber.

P3310D Series is highly reliable and supports the dual power supply.

P3310D Series has rich OAM functions including configuration, alarm, performance monitoring, fault isolation, security management and CLI/GUI management.



Support 1.25Gbps uplink/downlink bandwidth



Efficient bandwidth usage and Ethernet services



The coupling ratio ups to 1:64

# Model Lists

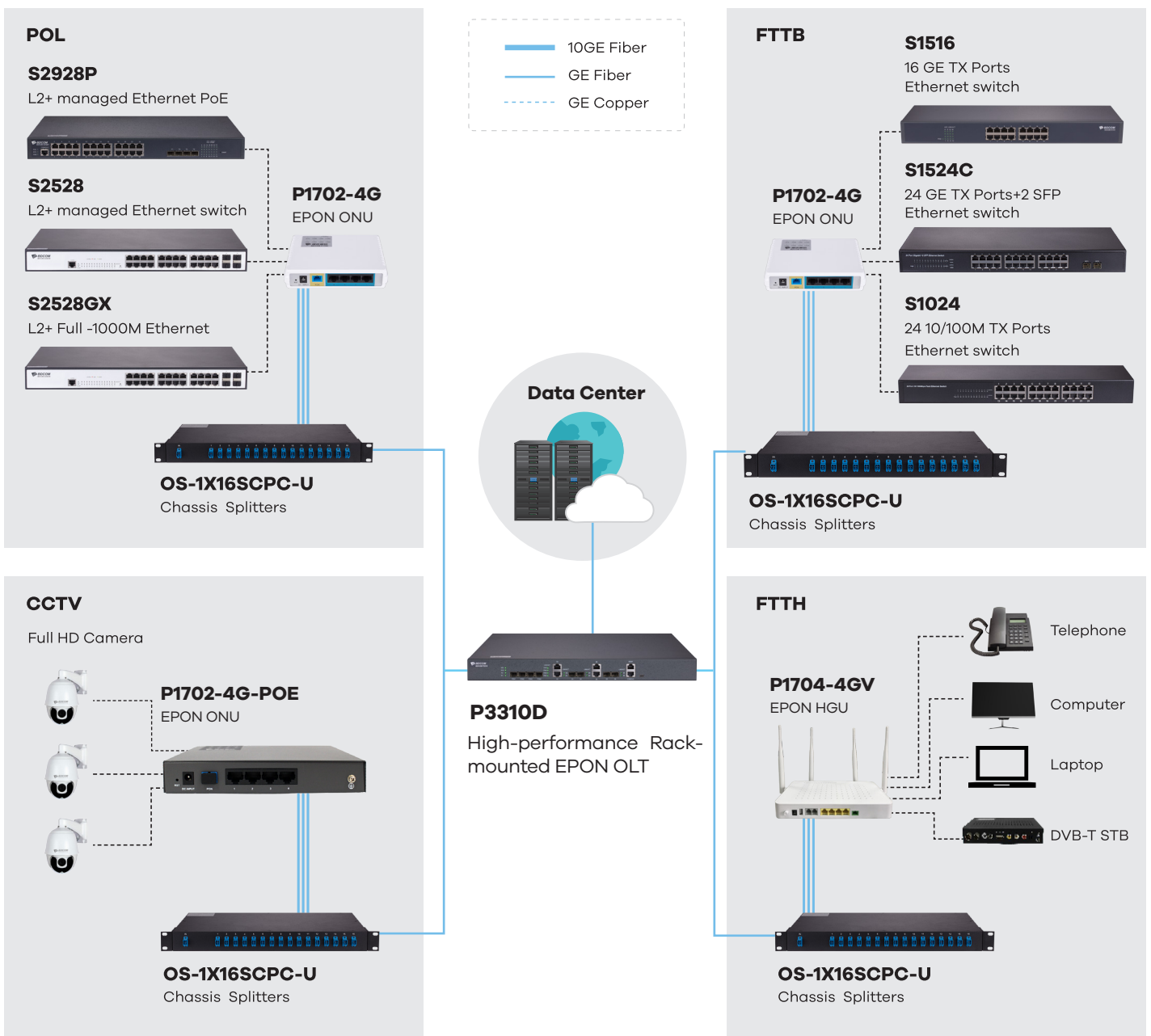
## P3310D

High-density Rack-mounted EPON OLT



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

# Application Diagram



# System Performance

Item	P3310D
<b>Service interface</b>	
PON ports	4
GE uplink	2 GE TX + 2 GE SFP + 2 GE SFP/TX combo ports
Supported GPON SFP module	PX20, PX20+, PX20++
<b>Management interface</b>	
RJ45 console	1
Mini-USB console	1
Out-of-Band	1
<b>System capacity</b>	
DRAM (MB)	128
Flash (MB)	32
Backplane (Gbps)	20
MAC table	8K
Buffer size (MB)	512
Jumbo frame (KB)	2
Active VLAN	4,094
Total SVI	1
Forwarding mode	Store-and-forward
<b>Reliability</b>	
MTBF (Hr)	100,000
Certification	CE, FCC, ROHS

# 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

## Multicast

- L2 multicast
- IGMP snooping
- MLD snooping
- Fast-leave

## DHCP Function

- Client
- DHCP snooping
- DHCP option 82
- DAI
- IP source guard

## VLAN

- Port/IP/Protocol/MAC-based VLAN
- 4K VLAN
- QinQ and flexible QinQ

## 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

## 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
- Debug output
- NTP

## Network Availability

- STP/RSTP/MSTP
- BPDU guard
- EAPS

## Physical Characteristics

Item	P3310D	
<b>Power supply</b>		
AC (V)	90 ~ 264	
DC (V)	36~72	
Power slots	1 (fixed, optional for 2)	
Max. consumption (W)	40	
Total output BTU (note: 1000 BTU/hr = 293W)	136.52	
<b>Cooling system</b>		
Fan number	2	
Air-flow	Left-right	
Noise@25°C(dBA)	< 45	
<b>Appearance</b>		
Chassis	Dimensions(WxDxH mm)	442 x315 x 44
	Weight (Kg)(empty)	3.5
Package	Dimensions(WxDxH mm)	576 x 448 x 94
	Weight (Kg)	4.4
<b>Environmental specifications</b>		
Operating	Temperature	0~45°C
	Humidity (non-condensing )	10%~85%
Storage	Temperature	-40°C~80°C
	Humidity (non-condensing )	5%-95%
<b>Accessories</b>		
Parts	Power cord, rackmount kits, console cable	

## Ordering Information

Model	Description
BDCOM P3310D	OLT with 4 EPON ports (1 console port, 1 out-of-band 10/100M port, 4 fixed PON ports (excluding the OLT SFP optical module), 2 GE combo ports, 2 GE SFP ports, 2 GE TX ports; AC90-264V single power supply, 19-inch rack-mounted installation, the cooling fan)
BDCOM P3310D-DC	OLT with 4 EPON ports (1 console port, 1 out-of-band 10/100M port, 4 fixed PON ports (excluding the OLT SFP optical module), 2 GE combo ports, 2 GE SFP ports, 2 GE TX ports, DC36-72V single power supply, 19-inch rack-mounted installation, the cooling fan)
BDCOM P3310D-2AC	OLT with 4 EPON ports (1 console port, 1 out-of-band 10/100M port, 4 fixed PON ports (excluding the OLT SFP module), 2 GE combo ports, 2 GE SFP ports, 2 GE TX ports, AC90-264V dual power supply, 19-inch rack-mounted installation, the cooling fan)
BDCOM P3310D-2DC	OLT with 4 EPON ports (1 console port, 1 out-of-band 10/100M port, 4 fixed PON ports (excluding the OLT SFP module), 2 GE combo ports, 2 GE SFP ports, 2 GE TX ports, DC36-72V dual power supply, 19-inch rack-mounted installation, the cooling fan)
BDCOM P3310D-MC	OLT with 4 EPON ports (1 console port, 1 out-of-band 10/100M port, 4 fixed PON ports (excluding the OLT SFP module), 2 GE combo ports, 2 GE SFP ports, 2 GE TX ports, AC90-264V/DC36-72V dual power supply, 19-inch rack-mounted installation, the cooling fan)
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, PX20++ standard, downlink 1.25G/uplink 1.25G, TX wavelength 1490nm, RX wavelength 1310nm, SC interface

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