



# BDCOM

**BDCOM PON Datasheet  
High-Performance Cabinet OLT  
——P3310B**

BDCOM P3310B complies with IEEE802.3ah and P.R.C intercommunication standard, YD/T 1475-2006, supports CTC20/2.1, automatically discovers and cooperates with ONUs of different manufacturers.

BDCOM P3310B 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.

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

BDCOM P3310B, based on the edge-cutting technologies, is strong in functions. A few of its functions such as QoS guarantee, SLA and DBA can be easily listed out.



P3310B

## Advantages

BDCOM P3310B can support four PON systems and has the following advantages:

**EPON:** P3310B supports 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.

**System's capacity:** The modularized PON card of BDCOM P3310B can support four EPON systems simultaneously, up to 256 ONUs and the 1/64 coupling ratio.

**Uplink interface:** Its flexible design supports various MAN interface type groups. The optical ports or the electrical ports are selected according to network conditions.

They support the IGMP multicast and efficiently utilize the bandwidth. They support the multicast VLAN.

**Device size:** A 1U device occupies a little space and consumes little power, decreasing the function cost of the services.

**Protecting the bus optical fiber:** BDCOM P3310B supports that the link can be automatically switched to protect the optical fiber when trouble occurs in the optical fiber.

It is highly reliable and powered by two power sources.

It has rich OAM functions such as configuration, alarm, performance monitoring, trouble isolation and security management. At the same time, it supports the CLI/GUI management, which is easy to use.

## Specifications

Attributes	P3310B
<b>System's capacity</b>	Maximum coupling ratio, 1:64 32G backplane bandwidth
<b>Interface</b>	6 GE ports (2 gigabit RJ45 ports, 2 combo ports, 2 gigabit optical ports) 4 fixed EPON ports
<b>PON interface</b>	A 1Gbps transmission rate with downlink and uplink symmetry Average Optical Transmit Power: +2dbm ~ +7dbm Light reception sensitivity of the PON port: no less than -30dBm ONU authentication mechanism
<b>Standard</b>	IEEE802.3ah IEEE 802.1D, Spanning Tree IEEE 802.1Q, VLAN IEEE 802.1w, RSTP
<b>QoS</b>	Backpressure flow control (half duplex) IEEE 802.3x flow control (full duplex) IEEE 802.1p, CoS WR, SP and FIFO Rate-limit based on each ONU DBA and SLA
<b>VLAN</b>	Port-based VLAN IEEE802.1Q VLAN relay
<b>Multicast</b>	IGMP v1/v2 IGMP Snooping
<b>Reliability</b>	EAPS Optical path protection of EPON
<b>Security</b>	MAC limitation Port isolation Storm control Flow-based ACL Transmission data encryption on the PON interface
<b>Management</b>	CLI, SNMP and TELNET TFTP and FTP
<b>Chassis</b>	442mm(W) x315mm(D) x 44mm(H)
	Installation: A 19-inch cabinet
	Weight: 2kg
<b>Environment</b>	Working condition: 0°C-55°C; 10%-85% no condensation
	Storage condition: -40°C to 80°C; 5%-95% non-condensing
<b>Power supply</b>	Input voltage: AC100-240V Input frequency: 47-63Hz Supporting redundancy power supply Input current: 1A/230V Power consumption: Up to 48W

## Order Information

Model	Description
BDCOM P3310B	OLT device with 4 PON ports (1 console port, 1 out-band 10/100M port, 4 integrated PON ports (excluding the OLT SFP optical module), 2 gigabit combo ports, 2 gigabit SFP optical ports, 2 gigabit TX ports, AC90-264V power supply, single power supply, 19-inch cabinet shape, having a fan)
BDCOM P3310B-DC	OLT device with 4 PON ports (1 console port, 1 out-band 10/100M port, 4 integrated PON ports (excluding the OLT SFP optical module), 2 gigabit combo ports, 2 gigabit SFP optical ports, 2 gigabit TX ports, DC36-72V power supply, single power supply, 19-inch cabinet shape, having a fan)
BDCOM P3310B-2AC	OLT device with 4 PON ports (1 console port, 1 out-band 10/100M port, 4 integrated PON ports (excluding the OLT SFP optical module) 2 gigabit combo ports, 2 gigabit SFP optical ports, 2 gigabit TX ports AC90-264V power supply, two power supplies, 19-inch cabinet shape, having a fan)
BDCOM P3310B-2DC	OLT device with 4 PON ports (1 console port, 1 out-band 10/100M port, 4 integrated PON ports (excluding the OLT SFP optical module), 2 gigabit combo ports, 2 gigabit SFP optical ports, 2 gigabit TX ports, DC36-72V power supply, two power supplies, 19-inch cabinet shape, having a fan)
OLT-GSFP-20	OLT SFP module, 20km, 1.25G, 1490nm TX wavelength, 1310nm RX wavelength, SC
OLT-GSFP-20+	OLT SFP module, 20km, 1.25G, 1490nm TX wavelength, 1310nm RX wavelength, SC, DDM