



# BDCOM

**BDCOM PON Datasheet  
High-Density Rack OLT  
——P3600 Series**

BDCOM P3600 Series OLT complies with IEEE802.3ah and PRC communication standard (YD/T 1475-2006), supports CTC2.1/3.0, automatically detects and is compatible with other manufacturers' ONUs, so P3600 series can be used in an efficient EPON solution. This series includes three models: P3608, P3612 and P3616.

BDCOM P3600 OLT supports the 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 P3600, 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.



P3608



P3612



P3616-2TE



AC power-source module



DC power-source module

## Advantages

BDCOM P3600 Series meets the current market requirements due to the following advantages:

- EPON: complying with IEEE802.3ah, PRC communication standard (YD/T 1475-2006), and CTC2.1/3.0
- System's capacity: supporting 8, 12, or 16 EPON systems and flexible configuration
- Uplink interfaces: having 8 GE uplink ports (4 GE optical ports and 4 GE combo ports) and supporting 2 additional 10G uplink ports
- Device size: 1U, 300mm high, and occupying small machine-room area
- Green technology and environment protection: low power consumption to reduce the operation cost
- Layer-3 function: supporting L3 routing functions
- Protecting the bus optical fiber: supporting automatic link protection on the occurrence of optical fiber trouble
- Power: supporting two AC power sources, two DC power sources or the AC/DC hybrid power source, adopting the modularization design, hot-swappable, EMC3, powerful environment adaptability

## Specifications

Attributes		P3608	P3612	P3616
System's capacity		Maximum coupling ratio, 1:64 128G backplane bandwidth Volume of the MAC table: 32K		
Ports	PON	8 EPON ports	12 EPON ports	16 EPON ports
	uplink	8 GE ports (4 GE optical ports and 4 GE TX/SFP ports) optional 2 10G ports		
EPON		A 1Gbps transmission rate with downlink and uplink symmetry Average emitting power of the PON port: +2dbm to +7dbm Light reception sensitivity of the PON port: no less than -30dBm Security: ONU authentication mechanism		
Standard		IEEE802.3ah IEEE 802.1D, Spanning Tree IEEE 802.1Q, VLAN IEEE 802.1w, RSTP IEEE 802.3ad, LACP Ethernet – II		
QoS		Backpressure flow control (half duplex) IEEE 802.3x flow control (full duplex) IEEE 802.1p, CoS WR, SP and FIFO ONU-based uplink/downlink rate limit DBA and SLA		
VLAN		Port-based VLAN 4K active VLANs QinQ and flexible QinQ		
IP routing		Static route, RIPv1/v2, OSPF, etc Routing table: 12K		
Multicast		IGMP v1/2/3		

	IGMP Snooping
<b>Reliability</b>	Unidirectional Link Detection (UDLD) Optical path protection of EPON
<b>Network security</b>	MAC limit 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>	442.5mm(W) x300mm(D) x 44mm(H)
	Installation: A 19-inch cabinet
	Weight: 2kg
<b>Environment</b>	Working condition: 0°C-55°C; 10%-85% non-condensing
	Storage condition: -40°C-80°C; 5%-95% non-condensing
<b>Power</b>	Input voltage: AC90 to 264V , DC -36 to -72V Dual power inputs, AC/DC power hybrid, power module's hot swap Over-current protection and over-voltage protection

## Order Information

Model	Description
BDCOM P3608	OLT with 8 PON ports (1 console port, 1 out-of-band management 10/100M port, 8 fixed PON ports(excluding the OLT SFP module), 4 GE combo ports, 4 GE SFP optical ports; an AC90-264V power source, expandible to two power sources, 19-inch rack mount; customizing up to 2 10G SFP+ ports)
BDCOM P3608-DC	OLT with 8 PON ports (1 console port, 1 out-of-band management 10/100M port, 8 fixed PON ports(excluding the OLT SFP module), 4 GE combo ports, 4 GE SFP optical ports; a DC-36~-72V power source, expandible to two power sources, 19-inch rack mount; customizing up to 2 10G SFP+ ports)
BDCOM P3612	OLT with 12 PON ports (1 console port, 1 out-of-band management 10/100M port, 12 fixed PON ports(excluding the OLT SFP module), 4 GE combo ports, 4 GE SFP optical ports; an AC90-264V power source, expandible to two power sources, 19-inch rack mount; customizing up to 2 10G SFP+ ports)
BDCOM P3612-DC	OLT with 12 PON ports (1 console port, 1 out-of-band management 10/100M port, 12 fixed PON ports(excluding the OLT SFP module), 4 GE combo ports, 4 GE SFP optical ports; a DC-36~-72V power source, expandible to two power sources, 19-inch rack mount; customizing up to 2 10G SFP+ ports)
BDCOM P3616	OLT with 16 PON ports (1 console port, 1 out-of-band management 10/100M port, 16 fixed PON ports(excluding the OLT SFP module), 4 GE combo ports, 4 GE SFP optical ports; an AC90-264V power source, expandible to two power sources, 19-inch rack mount; customizing up to 2 10G SFP+ ports)
BDCOM P3616-DC	OLT with 16 PON ports (1 console port, 1 out-of-band management 10/100M port, 16 fixed PON ports(excluding the OLT SFP module), 4 GE combo ports, 4 GE SFP optical ports; a DC-36~-72V power source, expandible to two power sources, 19-inch rack mount; customizing up to 2 10G SFP+ ports)
PWR-150-AC	AC power source of P3600 OLT (Input voltage: AC 90-264V, maximum power consumption: 150W, independent fan for heat cooling)

PWR-150-DC	AC power source of P5900 OLT (Input voltage: AC -36-72V, maximum power consumption: 150W, independent fan for heat cooling)
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

\* Up to 2 10G ports can be customized.

\*For example, products of the 2 10G ports are P3616-2TE and P3616-2TE-DC.