BDCOM
Professional Network Technology

BDCOM 3600 Series
High-Density
Rack-Mounted OLT

BDCOM 3600 High-Density Rack-Mounted OLT

Overview:

BDCOM P3600 OLT complies with IEEE802.3ah and P.R.C intercommunication standard, YD/T 1475-2006, supports CTC20/3.0, automatically discovers and works normally with ONUs of different manufacturers.

BDCOM P3600 Series OLT can be used to establish efficient EPON solution and has three models: P3608, P3612 and P3616.

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.

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

BDCOM P3600 OLT, 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

AC power module   DC power module

Main features:

BDCOM P3600 Series OLT suits to the market requirements and has the following advantages:

- EPON: P3600 complies with IEEE802.3ah, PRC YD/T 1475-2006 and CTC2.1/3.0.
- System's capacity: P3600 Series OLT can support 8, 12 or 16 EPON systems so that the configuration can be done flexibly.
- Uplink interface: The whole P3600 series each has 4 GE ports and 4 GE combo ports as their uplink ports in their standard settings and they each can support two extra 10G uplink ports.
- Device size: All models in this series are 1U in size and 300mm in depth, so they each occupy only small space in the machine room.
- Green environmental protection: low power consumption can reduce the operation cost.

- L3 functions: L3 routing functions are supported.

- Protecting the bus optical fiber: BDCOM P3600 supports that the link can be automatically switched to protect the optical fiber when trouble occurs in the optical fiber.

- Features of electric power: Two AC, DC or AC-DC-hybrid power sources, featuring the modularized design, hot swap and EMC3, are supported. Hence, P3600 has a stronger environment adjustment ability than other products of the same kind.

Technical Parameters

Attributes		P3608	P3612	P3616
System's capacity		Maximum coupling ratio, 1:64 128G backplane bandwidth MAC table volume: 32K		
Ports	PON	8 EPON interfaces	12 EPON interfaces	16 EPON interfaces
	Uplink	8 GE interfaces (4 GE optical interfaces, 4 GE TX/SFP interfaces)		
		The device can be expanded to support two extra 10G interfaces.		
Attributes of the PON Interface		A 1Gbps transmission rate with downlink and uplink symmetry Average emitting power of the PON port: +2dbm ~ +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 physical link static/dynamic aggregation (LACP) Ethernet – II		
QoS		Backpressure flow control (half duplex) IEEE 802.3x flow control (full duplex) IEEE 802.1p, CoS WR, SP and FIFO Limiting the uplink/downlink rate based on each ONU Supporting DBA and SLA		
VLAN		Port-based VLAN Supporting QinQ and flexible QinQ		
L3 functions		Static route, RIPv1/v2, OSPF, etc Routing volume of the host: 8K		
Multicast		IGMP IGMP Snooping		
Reliability		Unidirectional Link Detection (UDLD) Hot swap of the EPON optical module on the expanded slot Optical path protection of EPON Check of abnormally illuminating ONU		
Network security		Limiting the maximum number of users on each port Port isolation Controlling the storm of packets Flow-based ACL access control function Transmission data encryption on the PON interface		

Configuration Management	Various management modes such as CLI, SNMP and TELNET Conducting software upgrade through TFTP and FTP Command prompt in English or in Chinese Debug output
Physical Characters	442.5mm(W) x300mm(D) x 44mm(H)
	Installation: A 19-inch cabinet
	Weight: 2kg
Environment requirements	Working condition: 0℃-55℃; 10%-85% non-condensing
	Storage condition: -40℃-80℃; 5%-95% non-condensing
Power source	Input voltage: AC90～264V, DC -36 ~ -72V Two power inputs, AC-DC-hybrid power inputs and hot swap of power modules are supported. Over-current protection and over-voltage protection are also supported.

Ordering Information

Model	Description
BDCOM P3608	OLT with 8 PON ports (1 console port, 1 out-of-band 10/100M port, 8 integrated PON ports (excluding the OLT SFP module), 4 GE combo ports, 4 GE SFP ports; one power source for its standard settings, expanded to two power sources, 19-inch rack-mounted; customizing up to 2 10G SFP+ interfaces)
BDCOM P3608-DC	OLT with 8 PON ports (1 console port, 1 out-of-band 10/100M port, 8 integrated PON ports (excluding the OLT SFP module), 4 GE combo ports, 4 GE SFP ports; one DC -36 ~ -72V power source for its standard settings, expanded to two power sources, 19-inch rack-mounted; customizing up to 2 10G SFP+ interfaces)
BDCOM P3612	OLT with 12 PON ports (1 console port, 1 out-of-band 10/100M port, 12 integrated PON ports (excluding the OLT SFP module), 4 GE combo ports, 4 GE SFP ports; one AC90-264V power source for its standard settings, expanded to two power sources, 19-inch rack-mounted; customizing up to 2 10G SFP+ interfaces)
BDCOM P3612-DC	OLT with 12 PON ports (1 console port, 1 out-of-band 10/100M port, 12 integrated PON ports (excluding the OLT SFP module), 4 GE combo ports, 4 GE SFP ports; one DC -36 ~ -72V power source for its standard settings, expanded to two power sources, 19-inch rack-mounted; customizing up to 2 10G SFP+ interfaces)
BDCOM P3616	OLT with 16 PON ports (1 console port, 1 out-of-band 10/100M port, 16 integrated PON ports (excluding the OLT SFP module), 4 GE combo ports, 4 GE SFP ports; one AC90-264V power source for its standard settings, expanded to two power sources, 19-inch rack-mounted; customizing up to 2 10G SFP+ interfaces)
BDCOM P3616-DC	OLT with 16 PON ports (1 console port, 1 out-of-band 10/100M port, 16 integrated PON ports (excluding the OLT SFP module), 4 GE combo ports, 4 GE SFP ports; one DC -36V ~ -72V power source for its standard settings, expanded to two power sources, 19-inch rack-mounted; customizing up to 2 10G SFP+ interfaces)
PWR-150-AC	AC power source of P3600 series (Input voltage: AC 90-264V, maximum power consumption: 150W, independent fan for heat cooling)
PWR-150-DC	AC power source of P3600 series (Input voltage: AC -36V to -72V, maximum power consumption: 150W, independent fan for heat cooling)
OLT-GSFP-20	OLT SFP module, 20km, 1.25G, TX wavelength 1490nm, RX