

Standalone L3 aggregation OLT

--BDCOM P3600 OLT series

BDCOM P3600 OLT series, which has high reliability, highly dense EPON access and robust switching and routing abilities, is a new generation of broadband and multiservice access OLT devices oriented towards the service-integrated network.

BDCOM P3600 OLT series adopts the BDROS operating system whose intelligent property is owned by BDCOM, integrates with network security, EPON, supports data, voice and video, and provides continuous forwarding, graceful restarting and ring protection, improving the work efficiency and securing the maximum running time.

BDCOM P3600 OLT series includes three models: P3608 (8 PON ports, 8 GE uplink), P3612(12 PON ports, 8 GE uplink) and P3616 (16 PON ports, 8 GE uplink). All P3600 OLT products support power source redundancy. P3600 OLT series can be widely applied on the networks of the carriers, EPON in the NGB upgrade of the Broadcast, TV and film system, or automatic power distribution, power-consumed information collection and PFTTH in the electric power industry.



Main Strengths

- Abiding by IEEE802.3ah, BDCOM P3600 OLT series meets relevant requirements of GEAPON OLT regulated in *Technical Requirements of YD/T1475-2006—EPON* and *China Telecom EPON Technical Requirements*.
- P3600 OLT products are standalone devices with high density and optional 10G uplink expansion, so they are easy for expansion and upgrade.
- BDCOM P3600 OLT has L2/L3/L4 functions, supports 128Gbps backplane bandwidth, static routes, RIP, OSPF and so on. It supports advanced functions such as QoS, bandwidth control and multicast, adding extra values to the whole network.

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- This series of products has high reliability. The power source can be backed up through the “1+1” mode. At the same time, VRRP, STP and LACP provide further reliability.
- A maximum optical coupling ratio of 1:64, up to 1024 ONUs and a 20km transmission distance.
- P3600 OLT supports various interface types including GE, TE and EPON.
- BDCOM P3600 OLT series supports CTC2.0/2.1/3.0 wholly, automatically detects and works harmoniously with ONUs made by different manufacturers.
- It supports the RFC 1213 SNMP protocol. The internal network management mode adopts the Telnet-based configuration management or the SNMP-based configuration management, realizing uniform network management based on the Broad Director network management platform.

Technical Indexes

Item	Attributes	Specification		
		P3608	P3612	P3616
Main interfaces	PON Ports	8	12	16
	GE ports	4 GE SFP slots, 4 GE TX/SFP combo ports		
	10GE ports	2 (optional)		
	Backplane	128Gbps		
	Flash	16MB		
	Memory	256MB		
	MAC table	32K		
	Routing table	12K		
	EPON attributes	Supporting IEEE 802.3ah EPON standards		
Supporting technical requirements of YD-T 1475-2006 access network based on EPON				
Supporting EPON interconnection of YD-T 1771-2008 access network				
China Telecom EPON standards—CTC2.0/2.1/3.0				
Standard OAM and expanded OAM management				
Data encryption				
1:64 optical coupling ratio				
DBA				
Software functions	ONU authentication control and the report of illegal ONU registration events			
	Backbone optical-fiber protection, “1+1” hand-in-hand protection, full protection, switchover delay of less than 50ms			
	Standards	IEEE 802.1D IEEE 802.3 IEEE 802.3u IEEE802.3ad IEEE 802.3x IEEE 802.3z IEEE802.1Q IEEE 802.1P IEEE 802.1w		
	STP	802.1D(STP), 802.1w(RSTP), 802.1s(MSTP)		
	IP Routing	Static route, RIPv1/2, OSPF, BGPv4, ISIS		
Multicast	IGMP v1/2/3, IGMP Snooping, IGMP Proxy, MLD snooping, PIM-SM, PIM-DM			
QoS	8 queues for each port, 802.1p, ToS, port ID, DifferSev, WRR, SP, SWRR, traffic shape, VLAN-ACL-based flow classification			

	ACL	L2~4 ACL, IP ACL, and data filtration based on source/destination IP, layer-3 IP ID, layer-4 TCP/UDP ID, IP priority, ToS or time based ACL
	MAC	Port/MAC binding, MAC filtering
	VLAN	Supporting GVRP, PVLAN and VLAN Stacking (QinQ), 4K active VLANs
	Flow control	HOL, half-duplex backpressure and full-duplex IEEE 802.3x
	ARP	ARP proxy
	DHCP	Client, Relay and Server
	Aggregation	LACP and load balance
	AAA	Local and RADIUS authentication
	Mirroring	Port or flow based port mirroring
	Storm Control	Broadcast and multicast storm control
	Reliability	VRRP
Managements	Console	RS-232
	Telnet	Support
	SNMP	v1, v2, v3
	SysLog	Support
	RMON	Group 1, 2, 3 and 9
	MIB	Public and private MIB
PON interface Features	Wavelength	Downlink 1490nm; uplink 1310nm
	Rate	Symmetric uplink and downlink: 1.25G
	Average irradiating power	+2dbm ~ +7dbm
	Optical reception sensibility	-30dBm
	Maximum optical coupling ratio	1:64
Physical specification	Humidity	10%~90% no condensation
	Working temperature	0°C ~ 50°C
	Power Source	AC: 90~264V, 50/60 Hz DC: -36~-72V
	Power redundancy	1+1 backup and hot swap
	Power consumption	< 100W

Order Information

Models	
P3608	Standalone L3 aggregation OLT P3608 (8 EPON SFP slots, 4GE SFP slots, 4 GE TX/SFP combo ports, 1 console port, 1 out-of-band management FE TX port, optional 2 10G SFP+ uplink ports, AC power supply, support dual power source)
P3612	Standalone L3 aggregation OLT P3612 (12 EPON SFP slots, 4GE SFP slots, 4 GE TX/SFP combo ports, 1 console port, 1 out-of-band management FE TX port, optional 2 10G SFP+ uplink ports, AC power supply, support dual power source)
P3616	Standalone L3 aggregation OLT P3616 (16 EPON SFP slots, 4GE SFP

	slots, 4 GE TX/SFP combo ports, 1 console port, 1 out-of-band management FE TX port, optional 2 10G SFP+ uplink ports, AC power supply, support dual power source)
Power sources	
LP36-PWR-AC	AC power source of P3600 OLT (AC 90~264V, 150W)
LP36-PWR-DC	DC power source of P3600 OLT (DC -36~-72V, 150W)
Optical modules	
OLT-GSFP-20	OLT SFP optical module (20km with 1:32 optical coupling ratio; 10km with 1:64 optical coupling ratio; SC; TX1490nm; RX1310nm; 1.25G)
OLT-GSFP-20+	OLT SFP optical module (20km with 1:32 optical coupling ratio; 10km with 1:64 optical coupling ratio; SC; TX1490nm; RX1310nm; 1.25G, DDMI optical power inspection)
GSFP-TX	1000M SFP module, RJ45 port
GSFP-SX	1000M SFP module, multi-mode, 500M, 850nm, LC
GSFP-LX-10	1000M SFP module, single-mode, 10km, 1310nm, LC
GSFP-LX-40	1000M SFP module, single-mode, 40km, 1310nm, LC
GSFP-ZX-80	1000M SFP module, single-mode, 80km, 1550nm, LC
SFP+SX	10G SFP+ module, multi-mode, 300m, 850nm, LC
SFP+LX-10	10G SFP+ module, single-mode, 10km, 1310nm, LC
SFP+LX-40	10G SFP+ module, single-mode, 40km, 1550nm, LC