



Shanghai Baud Data Communication Co., Ltd.

xPON Series

BDCOM GP8600-08CP
XGS-PON Combo OLT

BDCOM GP8600-08CP Rack-mount XGS-PON Combo OLT

Product Overview

BDCOM GP8600-08CP is a next-generation NG-PON OLT that complies with ITU-T G.984/G.987/G.988/G.9807 and the PRC communications industry standard “Access Network Technical Requirements—GPON.” It fully supports CTC 2.0, provides auto-discovery and multi-vendor ONU interoperability, and delivers multiple service accesses such as broadband, wireless, and video backhaul. Offering GPON, XG-PON, and XGS-PON access, it is widely applicable to carrier FTTx deployments for smooth migration from GPON to XG-PON/XGS-PON, and to POL builds in government/enterprise campuses and parks to meet rapidly growing service demands.

With a split ratio up to 1:256, and support for hybrid networking of GPON/XG-PON/XGS-PON ONUs for seamless upgrades, the GP8600-08CP helps minimize operator investment.

Leveraging industry-leading technologies, BDCOM GP8600-08CP OLT provides powerful Ethernet features and QoS guarantees, supporting SLA and DBA.



BDCOM GP8600-08CP

Product Characteristics

BDCOM GP8600-08CP OLT is an optical access platform tailored to current market needs.

The series offers the following advantages:

- Standards compliance: Conforms to ITU-T G.984/G.987/G.988/G.9807, the PRC industry standard Access Network Technical Requirements—GPON, and China Telecom CTC 2.0 GPON equipment specifications.
- PON ports: 8 × XGS-PON combo ports supporting access for GPON ONUs, XG-PON ONUs, and XGS-PON ONUs.
- Uplinks: 8 × 10GE/GE SFP+ ports and 2 × 100G QSFP28 ports.
- Redundancy protocols: Supports STP/RSTP/MSTP/ERPS/LACP for resilient link protection.
- Compact footprint: 1U height for minimal rack space.
- Energy efficient: Low power consumption to reduce OPEX.
- High availability hardware: Redundant power supplies (hot-swappable) and hot-swappable fans.

Technical Parameters

Item		Description
System Capacity		GPON: splitter ratio up to 1:128 XG(S)-PON: splitter ratio up to 1:256 Switching capacity: 880Gbps
Port	PON	8-port XG(S)-PON/GPON
	Uplink	8-port 10GE/GE SFP+
		2-port 100G QSFP28
PON Interface Features		GPON: Downlink 2.488 Gbps / Uplink 1.244 Gbps XG-PON: Downlink 9.953 Gbps / Uplink 2.488 Gbps XGS-PON: Downlink 9.953 Gbps / Uplink 9.953 Gbps Security: ONU authentication mechanism
Standards Compliance		ITU-T G.984 / G.987 / G.988 / G.9807.1 PRC industry standard “Access Network Technical Requirements—GPON” and China Telecom CTC 2.0 GPON equipment specs IEEE 802.1Q VLAN

Redundancy	IEEE 802.1D STP / 802.1w RSTP / 802.1s MSTP / PVST IEEE 802.3ad static/dynamic link aggregation (LACP) EAPS / ERPS support Type B/D single/dual-homing protection
QoS	Supports rate limiting (traffic policing/shaping) on user-defined traffic flows. Supports flow-based packet mirroring and traffic redirection (policy-based). Supports per-flow priority/CoS marking with 802.1p and DSCP remarking. Supports per-port QoS scheduling with Strict Priority (SP), Weighted Round Robin (WRR), and hybrid SP+WRR queue algorithms.
VLAN	4K VLANs (IEEE 802.1Q) Port-based, MAC-based, and protocol-based VLANs QinQ double-tag VLANs: port-based static QinQ and flexible QinQ
Diagnostics	DDM (Digital Diagnostic Monitoring) Long-reach ONU detection ONU ranging ONU offline cause analysis
Multicast	L2 Multicast IGMP-Snooping IGMP-proxy
IPv6	ND (Neighbor Discovery) IPv6 ACLs IPv6 QoS IPv6 static routing RIPng / OSPFv3 / BGP4+ / IS-ISv6 routing IPv6 DHCP Snooping
Layer-3 Features	Static routing DHCP server RIP / OSPF / BGP / IS-IS routing VRRP
Security	User role/privilege management and password protection IEEE 802.1X / RADIUS / AAA authentication MAC learning limit and blackhole MAC SSH 2.0 / HTTPS secure management access SNMP v1/v2c/v3

	Port isolation (hardware isolation between ports) Broadcast rate limiting / storm suppression IP Source Guard with automatic IP+MAC+Port+VLAN bindings and manual entries DHCP Option 82 and PPPoE+ ARP flood suppression and ARP spoofing protection Control-plane DoS/virus attack protection DHCP Snooping PON port data encryption
Configuration Management	Console / Telnet / SSH 2.0 CLI Web-based management FTP/TFTP/Web file upload/download management SNMP v1/v2c/v3 RMON SNTP time synchronization System logs
Dimensions (LxWxH)mm	440mm(W) x280mm(D) x 44mm(H)
	Installation: Standard 19" rack
Environment	Operating environment: 0°C~45°C; 10%~85% non-condensing
	Storage environment: -40°C~70°C; 10%~95% non-condensing
Power Supply	Input voltage: AC100~240V, DC 36~72V Dual power inputs, AC and DC mix power and hot-swappable power modules

Ordering Information

Item	Description
BDCOM GP8600-08CP	8-port XGS-PON Combo OLT with 1 CONSOLE port, 1 out-of-band 10/100M management port, 8 XGS-PON combo ports (excluding PON module), 8 10GE SFP+ ports, 2 100G QSFP28 ports; standard single power supply AC100~240V, expandable to dual power supply, 19-inch rack-mounted installation.
BDCOM GP8600-08CP-DC	8-port XGS-PON Combo OLT with 1 CONSOLE port, 1 out-of-band 10/100M management port, 8 XGS-PON combo ports (excluding PON module), 8 10GE SFP+ ports, 2 100G QSFP28 ports; standard single power supply DC36V~72V, expandable to dual power

	supply, 19-inch rack-mounted installation.
PWR-100-DC	OLT DC Power Supply (input voltage DC36V~72V)
PWR-100-AC	OLT AC Power Supply (input voltage AC100~240V)
OLT-CP-C+	XGS-PON Combo OLT SFP+ Module

For More Information

For more information about [GP8600-08CP XGS-PON Combo OLT](#), please contact your local BDCOM account representative.

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