



10GE PON OLT

Shanghai Baud Data
Communication Co., Ltd

**BDCOM P5520 Series
High-Density Rack-Mounted 10GE PON OLT**

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Product Overview

BDCOM P5520 Series complies with IEEE802.3av and P.R.C intercommunication standard (YD/T 1475-2006) and supports CTC3.0. It can automatically discover and is compatible with ONUs of different manufacturers. It is also fully compatible with 1G EPON ONU. It can be used for establishing efficient 10GEPON solution.

BDCOM P5520 Series supports the downlink 10Gbps/ uplink10Gbps, 1.25Gbps PON transmission rate, efficient bandwidth usage and Ethernet services, helping carriers to provide reliable services to their users.

Its coupling ratio ups to 1:128, and its support of different hybrid ONU networks minimizes the carrier's investment.

With the edge-cutting technologies, BDCOM P5520 Series is strong in functions. A few of its functions such as QoS guarantee, SLA and DBA can be easily listed out.



P5520

Product Characteristics

- EPON: P5520 Series abides by IEEE802.3av, PRC Community Industry Standard (YD/T 1475-2006) and China Telecom EPON technological requirement CTC3.0.
- System capacity: P5520 Series supports 8 10GEPON ports.
- Uplink interface: P5520 Series supports 4 GE optical ports, 4 GE Base-T ports, 4 10GE SFP+ ports.
- Dimensions (W×D×H): 1U, 300mm; the device occupies a small space.
- Trunk optical fiber protection: P5520 Series supports link automatic protection switching in case of optical fiber malfunctions;

- Power supply characteristics: P5520 Series supports dual AC, dual DC and AC/DC dual power supply. Its power supply adopts the modularized design and supports hot swap and EMC3 standard. Compared with the similar products, P5520 Series can be better adaptable to the environment.

Technical Parameters

Attributes	P5520 Series		
System Capacity	Maximum coupling ratio, 1:128 256G backplane bandwidth MAC table capacity: 32K		
Interface	PON		8 10GEPON XFP
	Uplink interface	GE	8 (4 SFP, 4 TX)
		10GE	4 SFP+
PON Interface	Asymmetric Mode		Optical module transmission wavelength: downlink 1577nm/1490nm, uplink 1310nm; Rate: downlink 10G, uplink 1.25G; Average emitting power: +2dbm ~ +5dbm@10Gbps; +2 ~ +7dbm @1.25Gbps Light reception sensitivity: -30dBm;
	Symmetric Mode		Optical module transmission wavelength: downlink 1577nm/1490nm, uplink 1270/1310nm; Rate: downlink 10G, uplink 10G; Average emitting power: +2dbm ~ +5dbm @10Gbps; +2 ~ +7dbm @10Gbps; Light reception sensitivity: -30dBm
Standard	IEEE802.3av IEEE 802.1D, Spanning Tree IEEE 802.1Q, VLAN		

	<p>IEEE 802.1w, RSTP</p> <p>IEEE 802.3ad LACP</p> <p>Ethernet – II</p> <p>YD/T 1771-2008</p>
QoS	<p>Back-pressure flow control (half duplex)</p> <p>IEEE 802.3x flow control (full duplex)</p> <p>IEEE 802.1p, CoS</p> <p>WR, SP and FIFO</p> <p>Limiting the uplink/downlink rate based on each ONU</p> <p>Supporting DBA and SLA</p>
VLAN	<p>Port-based VLAN</p> <p>QinQ, flexible QinQ</p>
Multicast	<p>IGMP</p> <p>IGMP Snooping</p>
Reliability	<p>Unidirectional Link Detection (UDLD)</p> <p>Hot swap of the optical module</p> <p>Optical path protection of EPON</p> <p>Abnormal luminescence overhaul of ONU, such as long luminescence detection</p>
Network Security	<p>Limiting the maximum number of users on each port</p> <p>Port isolation</p> <p>Packet storm control</p> <p>Flow-based ACL access control function</p> <p>Transmission data encryption on the PON interface</p>
Configuration Management	<p>Multiple management modes such as CLI, Web, SNMP and TELNET</p> <p>Conducting software upgrade through TFTP</p> <p>Command prompt in English or in Chinese</p> <p>Debug output</p>
Physical	<p>Dimensions (W × D × H) : 442.5 x300 x 44 mm</p>

Characteristics	Installation: standard 19-inch rack-mounted
	Weight: < 6kg
Environment	Working condition: 0°C-45°C ; 10%-85% non-condensing
Requirements	Storage condition: -40°C-80°C ; 5%-95% non-condensing
Power Supply	Input voltage: AC100-240V, DC -36~-72V
	Dual power supply, DC/AC power supply and power module hot swap
	Over-current voltage protection

Ordering Information

Model	Description
P5520	10GEPON OLT with 8 PON ports (1 console port, 1 out-of-band 10/100M port, 8 10GEPON ports (excluding the OLT XFP optical module), 4 gigabit TX ports, 4 gigabit SFP ports; standard AC100~240V single power supply, expanded dual power supply, 19-inch rack-mounted installation; 4 10GE SFP+ ports)
P5520-DC	10GEPON OLT with 8 PON ports (1 console port, 1 out-of-band 10/100M Ethernet port, 8 10GEPON ports (excluding the OLT XFP module), 4 gigabit TX ports, 4 gigabit SFP ports; standard DC-36 ~ -72V single power supply, expanded dual power supply, 19-inch rack-mounted installation; 4 10GE SFP+ ports)
PWR-150-AC	P5520 OLT AC power supply (input voltage: AC 100~240V, 150W max power, independent cooling fan)
PWR-150-DC	P5520 OLT AC power supply (Input voltage: DC -36~-72V, 150W max power, independent cooling fan)
OLT-XFP-A	OLT XFP optical module, asymmetric 10G EPON optical module (downlink 10G, uplink 1.25G)
OLT-XFP-S	OLT XFP optical module, symmetric 10G EPON optical module (downlink 10G, uplink 10G)

For More Information

For more information about [BDCOM P5520 Series](#), please contact your local BDCOM account representative.

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