



BDCOM P5520 Series High-Density Rack-Mounted 10GEPON 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 Series

Product Characteristics

BDCOM P5520 Series is characterized by following features:

- 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 systems.
- Uplink interface: P5520 Series supports 4 gigabit optical ports, 4 gigabit Base-T ports, 4 10GE SFP+ ports.
- Dimensions (W×D×H): 1U, 300mm; the device occupies a small space.
- Environment: lower power; the device lowers the operating cost;

- 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

Items	Description		
System Capacity	Maximum coupling ratio: 1:128 256G backplane bandwidth		
Interface	PON		8 10GEPON interfaces
	Uplink interface	GE	8 (4 gigabit SFP ports, 4 gigabit Base-T ports)
		10GE	4
PON Interface	Optical module transmission wavelength: downlink 1577nm/1490nm, uplink 1270/1310nm; Rate: downlink 10G, uplink 10G/1.25G; Supporting standard 10GEPON modules, such as PR30, PR30+; EPON modules, such as PX20, PX20+, PX20++;		
Standard	IEEE802.3av IEEE 802.1D, Spanning Tree IEEE 802.1Q, VLAN IEEE 802.1w, RSTP IEEE 802.3ad LACP Ethernet – II YD/T 1771-2008		
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 QinQ, support flexible QinQ
Multicast	IGMP Snooping Controllable multicast
Reliability	Unidirectional Link Detection (UDLD) Hot swap of the optical module Optical path protection of EPON Abnormal luminescence overhaul of ONU, such as long luminescence detection
Network Security	Limiting the maximum number of users on each port Port isolation Packet storm control Flow-based ACL access control function Transmission data encryption on the PON interface
Configuration Management	Multiple management modes such as CLI, Web, SNMP and TELNET Conducting software upgrade through TFTP Command prompt in English or in Chinese Debug output
Physical Characteristics	Dimensions mm (WxDxH): 442.5 x300 x 44
	Installation: standard 19-inch rack-mounted
	Weight: <6kg
Environment Requirements	Working condition: 0℃-45℃; 10%-85% non-condensing
	Storage condition: -40℃-80℃; 5%-95% non-condensing

Power Supply	Input voltage: AC90-264V, DC 36~72V
	Dual power supply, DC/AC power supply and power module hot swap
	Overcurrent voltage protection

Ordering Information

Model	Description
P5520	10GEPON OLT with 8 PON ports (1 console port, 1 out-of-band 10/100M port, 8 fixed PON ports (excluding the OLT XFP optical module), 4 gigabit Base-T ports, 4 gigabit SFP ports; standard AC90~264V 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 fixed PON ports (excluding the OLT XFP module), 4 gigabit Base-T ports, 4 gigabit SFP ports; standard DC36 ~ 72V single power supply, expanded dual power supply, 19-inch rack-mounted installation; 4 10GE SFP+ ports)
PWR-480-AC-B	P5520 OLT AC power supply (input voltage: AC 90~264V, 480W max power, independent cooling fan)
PWR-480-DC-B	P5520 OLT DC power supply (Input voltage: DC 36~72V, 480W max power, independent cooling fan)
OLT-XFP-A	OLT XFP module, asymmetric 10G EPON optical module (PRX30, downlink 10G, uplink 1.25G)
OLT-XFP-S	OLT XFP optical module, symmetric 10G EPON optical module (PR30, downlink 10G, uplink 10G)

For More Information

For more information about the BDCOM P5520 Series, please contact your local BDCOM account representative.

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