BDCOM

10GEPON OLT

Shanghai Baud Data Communication Co., Ltd

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

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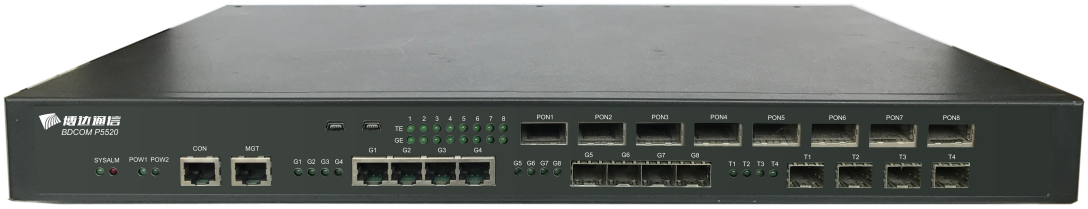
## Product Overview

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

## 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<br>256G backplane bandwidth<br>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;<br>Rate: downlink 10G, uplink 1.25G;<br>Average emitting power: +2dbm ~ +5dbm@10Gbps;<br>+2 ~ +7dbm @1.25Gbps<br>Light reception sensitivity: -30dBm; |
| | Symmetric Mode | | Optical module transmission wavelength: downlink 1577nm/1490nm, uplink 1270/1310nm;<br>Rate: downlink 10G, uplink 10G;<br>Average emitting power: +2dbm ~ +5dbm @10Gbps;<br>+2 ~ +7dbm @10Gbps;<br>Light reception sensitivity: -30dBm |
| Standard | IEEE802.3av<br>IEEE 802.1D, Spanning Tree<br>IEEE 802.1Q, VLAN | | |

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

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|---|---|
| Characteristics | 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: AC100-240V, DC -36~-72V<br>Dual power supply, DC/AC power supply and power module hot swap<br>Over-current voltage protection |

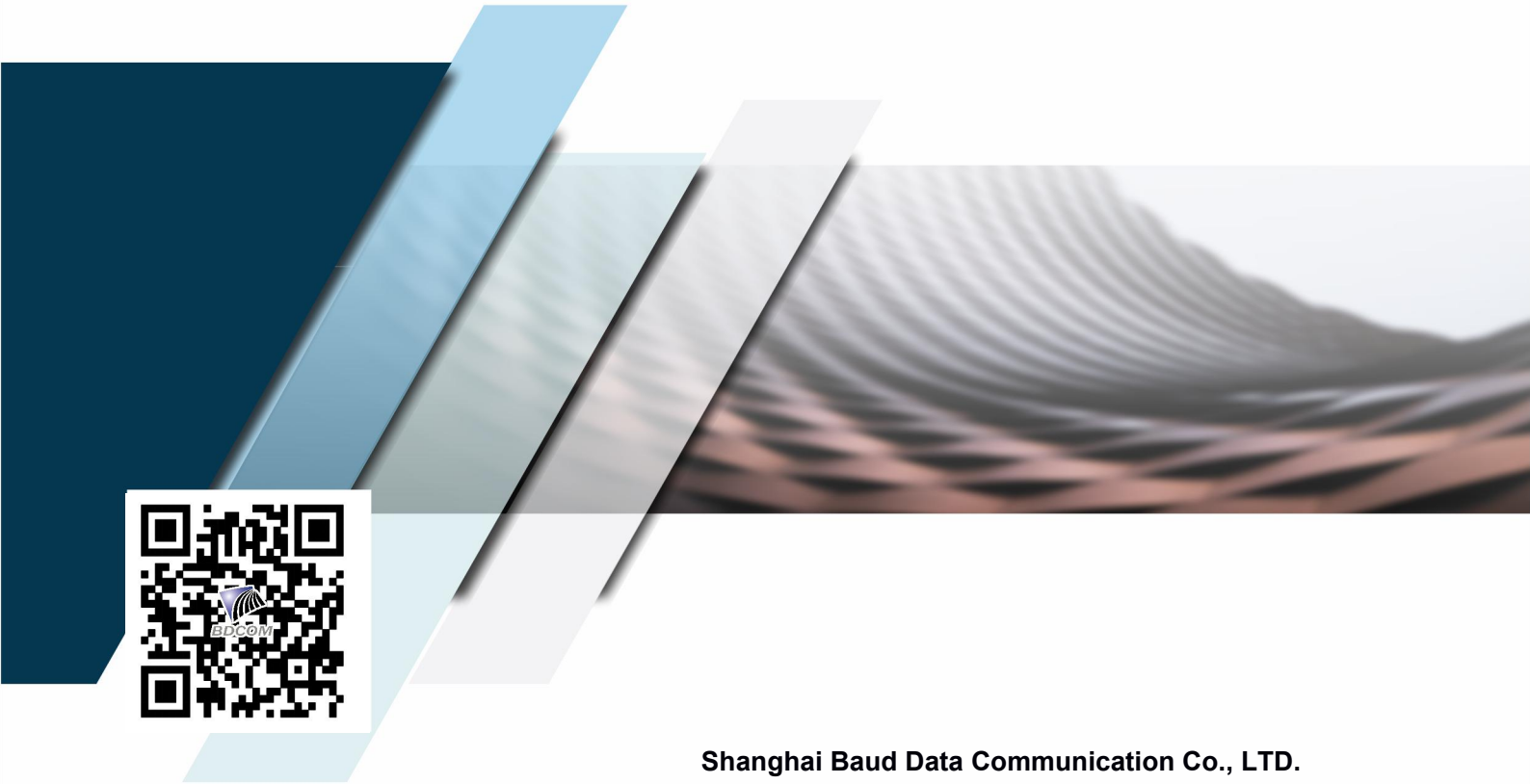
## Ordering Information

| 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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