



BDCOM S2510P Full-gigabit Ethernet PoE Switch

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BDCOM S2510P is a new-generation smart access switch designed for carrier's IP MAN and enterprise networks. Based on the new-generation high-performance hardware and BDROS platform, it supports functions such as ACL, QinQ and QoS.



S2510P

- S2510P: 8 10/100/1000Base-T ports and 2 1000Base-X SFP ports;

Product Characteristics

- **Carrier-class Ethernet Access Switches**

- S2510P supports the telecom-level Ethernet-ring protection protocol with a protection shift time of less than 50ms, EAPS/ERPS/STP/RSTP/MSTP, backup of active and standby uplinks, and LACP link aggregation to cater to the requirements of high reliability of carriers;
- S2510P has powerful ACL functions to access and control L2-L7 data, providing carriers flexible and various policy control methods;
- S2510P supports ISSU (In-Service Software Upgrade), which guarantees the user data non-stop forwarding when the system is upgrading;
- S2510P supports various L2 multicast function, including user fast-leave mechanism and cross VLAN multicast replication function.

- **Complete POE Power Supply Function**

- S2510P supports 802.3AF/AT standard, built-in high-power power supply and 8-port POE+ power supply;

- S2510P supports POE non-stop powering when it is in hot-restart;
- S2510P supports power port priority when the power is not efficient.
- S2510P supports the POE port with up to 2KV thunder-proof.
- **Rich QoS Policies**
- S2510P supports complex traffic classification based on VLAN, MAC, source address, destination addresses, IP protocols and priorities. It also supports priority remark. These functions provide an effective way for users to optimize their businesses.
- S2510P provides with flexible bandwidth control policies, supporting port-/flow-based flow limit and ensuring the line speed forwarding of each port to make sure the high quality of video, audio and data services
- S2510P also supports multiple queue grooming algorithms such as SP, WRR or SP+WRR.
- **Comprehensive IPv6 Solutions**
- S2510P supports the IPv6 protocol suite, IPv6 neighbor discovery and ICMPv6.
- S2510P supports IPv6 based Ping, Traceroute, Telnet and SSH, meeting the need of IPv6 network equipment management and service control.
- **Comprehensive Security Mechanisms**
- S2510P adopts advanced hardware architecture design, realizing the hierarchical scheduling and protection of the packet. It provides multiple security measures to defend against attacks from SYN Flood, UDP Flood, broadcast storm and mass flow of DOS or TCP. It also supports command line authority control based on user levels.
- Comprehensive Security Certification: S2510P complies with IEEE 802.1x, Radius and BDTacacs+.
- S2510P supports the suppression of broadcast, multicast and unknown unicast packet, ensuring the equipment can operate normally in harsh network conditions.
- S2510P has the perfect loop detection mechanism.
- S2510P supports the port isolation in a same VLAN, DHCP-Snooping and IP+MAC+ port binding.
- **Convenient Management and Maintenance**
- S2510P supports multiple management styles such as Console, Telnet and SSH.
- S2510P supports WEB based management. The management is more simple and effective.

- S2510P supports upload and download of TFTP files.
- S2510P supports ISSU (In-Service Software Upgrade).
- S2510P supports Zero Touch Provisioning (ZTP), which allows you to deploy new devices in your network automatically, with minimal manual intervention.
- S2510P supports SNMP. By cooperating with Baud's smart NMS, functions including the equipment auto-discovery, the topology management, the equipment configuration management, the performance data analysis, and the fault management can be realized. In this way, the network management is simplified and the user get a new product experience.

Product Specifications

S2510P Series	
Item	S2510P
Switching capacity	20Gbps
Forwarding rate	15Mpps
Dimensions mm (WxDxH)	340x200x44
Power consumption	<30W
POE/POE+	Support
Power supply	AC: 100V-240V, 50Hz±10% DC: -36V--72V (The POE switch here doesn't support DC power supply)
Environment	Operating temperature/humidity: 0°C-50°C, 10%-90% non-condensing Storage temperature/ humidity: -20°C-70°C; 5%-95% non-condensing
MAC switching function	Static configuration and dynamically learning of MAC address Check and delete MAC address Configuring of MAC address aging time Limit on MAC address learning number MAC address filtering function
VLAN	4K VLAN entries GVRP 1:1 and N:1 VLAN Mapping

	<p>QinQ</p> <p>Private VLAN</p>
STP	<p>802.1D (STP), 802.1W (RSTP), 802.1S (MSTP)</p> <p>BPDU protection, root protection and ring protection</p>
Multicast	<p>IGMP v1/v2/v3</p> <p>IGMP Snooping</p> <p>IGMP Fast Leave</p> <p>Multicast group policy and multicast number limit</p> <p>MVC</p>
IPv6	<p>ICMPv6, DHCPv6 and IPv6 Telnet</p> <p>IPv6 Neighbor Discovery</p> <p>MLD v1/v2</p> <p>MLD Snooping</p>
QoS	<p>Traffic classification of each field of L2/L3/L4 protocol headers</p> <p>CAR traffic control</p> <p>802.1P/DSCP priority remark</p> <p>Multiple queuing algorithms such as SP, WRR or SP+WRR</p> <p>Tail-Drop, WRED</p> <p>Traffic supervision and traffic shaping</p>
Security features	<p>Identification and filtering of L2/L3/L4 based ACL</p> <p>Defend against DDoS attack, SYN Flood attack of TCP or UDP Flood attack</p> <p>Suppression of broadcast, multicast and unknown unicast packet</p> <p>Port isolation</p> <p>Port security, IP+MAC+port binding</p> <p>DHCP Snooping, DHCP Option 82</p> <p>IEEE 802.1x authentication</p> <p>Radius and BDTacacs+ authentication</p> <p>Command line authority control based on user levels</p>
Reliability	<p>Static/LACP link aggregation</p> <p>EAPS and ERPS(single ring)</p> <p>ISSU</p>
Management and	<p>Console, Telnet, SSH 2.0</p>

Maintenance	WEB GUI SNMP v1/v2/v3 TFTP/FTP/SFTP RMON
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Ordering Information

Item	Description
S2510P POE Switches	
S2510P	Ethernet POE switch with 8 gigabit Base-T ports and 2 gigabit SFP ports (1 console port, 8 gigabit POE ports, 2 gigabit SFP ports; the standard AC220V power supply, 150W POE power, the cooling fan, 1U, desk-top installation)
S2510P-DC	Ethernet POE switch with 8 gigabit Base-T ports and 2 gigabit SFP ports (1 console port, 8 gigabit POE ports, 2 gigabit SFP ports; the standard DC36-72V power supply, 150W POE power, the cooling fan, 1U, desk-top installation)
Optical Modules	
100M Optical Modules	
FSFP-SX-1310	100M SFP multi-mode (2Km, 1310nm, LC, DDM)
FSFP-LX-15	100M SFP single-mode (15Km, 1310nm, LC, DDM)
FSFP-LX-40	100M SFP single-mode (40Km, 1310nm, LC, DDM)
FSFP-ZX-80	100M SFP single-mode (80Km, 1550nm, LC, DDM)
FSFP-LX-SM1310-20-BIDI	100M SFP single-mode, single-core bidirectional (20Km, TX1310/RX1550, LC, DDM)
FSFP-LX-SM1550-20-BIDI	100M SFP single-mode, single-core bidirectional (20Km, TX1550/RX1310, LC, DDM)
FSFP-LX-SM1310-40-BIDI	100M SFP single-mode, single-core bidirectional (40Km, TX1310/RX1550, LC, DDM)
FSFP-LX-SM1550-40-BIDI	100M SFP single-mode, single-core bidirectional (40Km, TX1550/RX1310, LC, DDM)

	100M SFP single-mode, single-core bidirectional(40Km, TX155/RX1310, LC, DDM)
FSFP-LX-SM1310-80-BIDI	100M SFP single-mode, single-core bidirectional (80Km, TX1310/RX1550, LC, DDM)
FSFP-LX-SM1550-80-BIDI	100M SFP single-mode, single-core bidirectional(80Km, TX1550/RX1310, LC, DDM)
Gigabit Optical Modules	
GSFP-TX-B	Gigabit SFP-to-RJ45 module
GSFP-SX-D	Gigabit SFP multi-mode (500m, 850nm, LC, DDM)
GSFP-LX-10-D	Gigabit SFP single mode (10Km, 1310nm, LC, DDM)
GSFP-LX-20-D	Gigabit SFP single mode (20Km, 1310nm, LC, DDM)
GSFP-LX-40-D	Gigabit SFP single mode (40Km, 1310nm, LC, DDM)
GSFP-ZX-80-D	Gigabit SFP single mode (80Km, 1550nm, LC, DDM)
GSFP-LX-SM1310-10-BIDI	Gigabit SFP single mode, single-core bidirectional (10Km, TX1310/RX1550, LC, DDM)
GSFP-LX-SM1550-10-BIDI	Gigabit SFP single mode, single-core bidirectional (10Km, TX1550/RX1310, LC, DDM)
GSFP-LX-SM1310-20-BIDI	Gigabit SFP single mode, single-core bidirectional (20Km, TX1310/RX1550, LC, DDM)
GSFP-LX-SM1550-20-BIDI	Gigabit SFP single mode, single-core bidirectional (20Km, TX1550/RX1310, LC, DDM)
GSFP-LX-SM1310-40-BIDI	Gigabit SFP single mode, single-core bidirectional (40Km, TX1310/RX1550, LC, DDM)
GSFP-LX-SM1550-40-BIDI -1310	Gigabit SFP single mode, single-core bidirectional (40Km, TX1550/RX1310, LC, DDM)
GSFP-LX-SM1490-80-BIDI	Gigabit SFP single mode, single-core bidirectional (80Km, TX1490/RX1550, LC, DDM)
GSFP-LX-SM1550-80-BIDI	Gigabit SFP single mode, single-core bidirectional (80Km, TX1550/RX1490, LC, DDM)

GSFP-LX-SM1490-120	Gigabit SFP single mode, single core bidirectional (120Km, TX1490/RX1550, LC, DDM)
GSFP-LX-SM1550-120	Gigabit SFP single mode, single core bidirectional (120Km, TX1550/RX1490, LC, DDM)

For More Information

For more information about the **BDCOM S2510P** , please contact your local BDCOM account representative.

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