



BDCOM S2200PB Series POE Switches

BDCOM S2200PB Series

Product Overview

BDCOM S2200PB Series is a new-generation intelligent POE 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. Its simple management mode and flexible installation can meet the requirement of any complicated scenarios.

BDCOM S2200PB Series POE switches has three models: S2210PB, S2218PB and S2226PB.



S2210PB



S2218PB



S2226PB

Product Characteristics

➤ **Telecom-Level Ethernet Access Switches**

- S2200PB Series supports the telecom-level Ethernet-ring protection protocol with a protection shift time of less than 50ms, STP/RSTP, backup of active and standby uplinks, and LACP link aggregation to cater to the requirements of high reliability of carriers;
- S2200PB Series has powerful ACL functions to access and control L2-L7 data based on physical port, providing carriers flexible and various policy control methods;
- S2200PB Series supports In-Service Software Upgrade (ISSU) to ensure the unremitting data forwarding during system upgrade;
- S2200PB Series supports various L2 multicast functions such as IGMP-snooping, user fast-leave mechanism and trans-vlan multicast copy to fully meet the operation requirements of carrier's IPTV;

➤ **Complete POE Power Supply**

- S2200PB Series supports IEEE 802.3AF/AT standard, built-in large power supply, free of external power supply, that is, 24-port AF full load power supply;
- S2200PB Series supports hot restart and POE non-stop power supply;
- S2200PB Series supports the configuration of Base-T port priority when the power is inadequate.
- S2200PB Series supports up to 2KV thunder-proof of the POE port and power supply

➤ **Varied Qos Policies**

- S2200PB Series supports priority retagging and complicated flow classification based on VLAN, MAC, source address, destination address, IP or priority, better streamlining carrier's services;
- S2200PB Series provides flexible bandwidth control policies, supporting port-/flow-based flow limit, ensuring the line speed forwarding of each port;
- S2200PB Series supports multiple queue schedule algorithms such as SP, WRR and "SP plus WRR";

➤ **Complete Security Mechanisms**

- Equipment-level security: The advanced hardware infrastructure design realizes the level-based packet schedule and packet protection, prevents DoS-/TCP-related SYN Flood, UDP Flood, Broadcast Storm or large traffic attacks, and supports level-based command line protection, endowing different levels of users with different management permissions;
- Perfect security authentication mechanisms: IEEE 802.1x, Radius and BDTacacs+;
- S2200PB Series supports storm/multicast/unicast limit, ensuring the normal running of equipment in harsh network conditions;
- S2200PB Series supports perfect ring detection mechanism, ensuring the long-term stable running of network;
- S2200PB Series supports port isolation within the same VLAN, DHCP-Snooping, and IP + MAC + Port binding;

➤ **Easy Management and Maintenance**

- S2200PB Series supports many management modes such as the console port, Telnet, SSH;
 - S2200PB Series supports the WEB management mode, which is easy and efficient for installing and debugging the device;
 - S2200PB Series supports TFTP-patterned file upload/download management;
 - S2200PB Series supports ISSU (In-Service Software Upgrade);
 - S2200PB Series supports SNMP and BDCOM NMS smart network management platform.
- The combination realizes automatic equipment discovery, network topology management, equipment configuration management, performance data statistics and analysis and trouble management.

Product Specifications

Item	S2210PB	S2218PB	S2226PB
Backplane	10Gbps	21.2Gbps	22.8Gbps
Forwarding rate	5.6Mpps	8.4Mpps	9.6Mpps
MAC capacity	8K	8K	8K
Service port description	8 100M Base-T ports + 2 gigabit optical ports	16 100M Base-T ports + 2 gigabit combo ports	24 100M Base-T ports + 2 gigabit combo ports
Dimensions(WxDxH)(mm)	280×179×45	440×232×44	440×232×44
Power consumption	<15W	<15W	<15W
POE/POE+	Support	Support	Support
POE power	150W	330W	400W
Power supply	AC: 100V-240V, 50Hz±10%		
Environment	Operating temperature/humidity: 0°C-50°C, 10%-90% non-condensing Storage temperature/humidity: -20°C-70°C, 5%-95% non-condensing		

MAC exchange	<p>configuration and dynamic MAC learning</p> <p>MAC browsing and removal</p> <p>Configurable aging time of the MAC address</p> <p>Limited number of learnable MAC addresses</p> <p>MAC filtration</p>
VLAN	<p>4K VLAN</p> <p>GVRP</p> <p>QinQ</p> <p>Private VLAN</p>
STP	<p>802.1D (STP), 802.1W (RSTP) and 802.1S (MSTP)</p> <p>BPDU protection, root protection, and loopback protection</p>
Multicast	<p>IGMP v1/v2/v3</p> <p>IGMP Snooping</p> <p>IGMP Fast Leave</p> <p>Multicast group strategy and quantity limitation</p> <p>Multicast flow copying over VLANs (S2108POE does not support the function.)</p>
QoS	<p>Flow classification based on L2~L4 protocols (S2108POE does not support this.)</p> <p>CAR flow limit</p> <p>802.1P/DSCP priority re-labeling (S2108POE does not support this.)</p> <p>SP, WRR, and “SP+WRR”</p> <p>Congestion avoidance mechanisms like Tail-Drop and WRED</p> <p>Flow monitoring and flow shaping</p>
Security	<p>L2/L3/L4 ACL flow identification and filtration (S2108POE does not support this.)</p> <p>Defend against DDoS attack, TCP’s SYN Flood attack and UDP Flood attack</p>

	<p>Broadcast/multicast/unknown unicast storm-control</p> <p>Port isolation</p> <p>Port security, and “IP + MAC + port” binding (S2108POE does not support this.)</p> <p>DHCP Snooping and DHCP option 82 (S2108POE does not support this.)</p> <p>IEEE 802.1x authentication</p> <p>Radius, BDTacacs+ authentication</p> <p>Level-based command line protection</p>
Reliability	<p>Static/LACP link aggregation</p> <p>EAPS and ERPS (S2108POE does not support this.)</p> <p>ISSU uninterrupted system upgrade</p>
Management	<p>Console, Telnet, SSH2.0, Web</p> <p>SNMP v1/v2/v3</p> <p>TFTP</p> <p>RMON</p>

Ordering Information

Item	Description
S2210PB Series POE Switches	
S2210PB	Ethernet POE switch with 8 100M Base-T ports and 2 gigabit optical ports (1 console port, 8 100M POE ports, 2 gigabit optical ports, the standard AC220V power supply, 150W POE power, the cooling fan, 1U, desktop installation)
S2218PB	Ethernet POE switch with 16 100M Base-T ports and 2 gigabit combo ports (1 console port, 16 100M POE ports, 2 100M/1000M auto-adaptation SFP/Base-T combo ports, the

	standard AC220V power supply, 330W POE power, the cooling fan, 1U, standard 19-inch rack-mounted installation)
S2226PB	Ethernet POE switch with 24 100M Base-T ports and 2 gigabit combo ports (1 console port, 24 100M POE ports, 2 100M/1000M auto-adaptation SFP/Base-T combo ports), the standard AC220V power supply, 400W POE power, the cooling fan, 1U, standard 19-inch rack-mounted 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)
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)
GE Optical Modules	
GSFP-TX-B	GE SFP-to- RJ45 module
GSFP-SX-D	GE SFP multi-mode (500m, 850nm, LC, DDM)
GSFP-LX-10-D	GE SFP single-mode (10Km, 1310nm, LC, DDM)

GSFP-LX-20-D	GE SFP single-mode (20Km, 1310nm, LC, DDM)
GSFP-LX-40-D	GE SFP single-mode (40Km, 1310nm, LC, DDM)
GSFP-ZX-80-D	GE SFP single-mode (80Km, 1550nm, LC, DDM)
GSFP-ZX-120-D	GE SFP single-mode (120Km, 1550nm, LC, DDM)
GSFP-LX-SM1310-10-BIDI	GE SFP single-mode, single-core bidirectional (10Km, TX1310/RX1550, LC, DDM)
GSFP-LX-SM1550-10-BIDI	GE SFP single-mode, single-core bidirectional (10Km, TX1550/RX1310, LC, DDM)
GSFP-LX-SM1310-20-BIDI	GE SFP single-mode, single-core bidirectional (20Km, TX1310/RX1550, LC, DDM)
GSFP-LX-SM1550-20-BIDI	GE SFP single-mode, single-core bidirectional (20Km, TX1550/RX1310, LC, DDM)
GSFP-LX-SM1310-40-BIDI	GE SFP single-mode, single-core bidirectional (40Km, TX1310/RX1550, LC, DDM)
GSFP-LX-SM1550-40-BIDI-1310	GE SFP single-mode, single-core bidirectional (40Km, TX1550/RX1310, LC, DDM)
GSFP-LX-SM1490-80-BIDI	GE SFP single-mode, single-core bidirectional (80Km, TX1490/RX1550, LC, DDM)
GSFP-LX-SM1550-80-BIDI	GE SFP single-mode, single-core bidirectional (80Km, TX1550/RX1490, LC, DDM)
GSFP-LX-SM1490-120	GE SFP single-mode, single-core bidirectional (120Km, TX1490/RX1550, LC, DDM)
GSFP-LX-SM1550-120	GE SFP single-mode, single-core bidirectional (120Km, TX1550/RX1490, LC, DDM)

For More Information

For more information about the **BDCOM S2200PB Series**, please contact your local BDCOM account representative.

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