

# BDCOM S2200 Series 100M&1000M Access Switches



## BDCOM S2200 Series 100M&1000M Access Switches

## **Product Overview**

BDCOM S2200 Series 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.

BDCOM S2200 Series has five models: S2210, S2212, S2228C, S2228FB and S2448C.



- S2210: 8 10/100Base-T ports, 2 1000Base-X ports;
- S2212: 8 10/100Base-T ports, 4 1000Base-X ports;
- S2228C: 24 10/100 Base-T ports, 4 GE Combo ports (10/100/1000 Base-T or 100/1000 Base-X);
- S2228FB: 24 100Base-X ports, 2 10/100/1000 Base-T ports, 2 GE Comb ports (10/100/1000 Base-T or 1000 Base-X);
- S2448C: 48 10/100 Base-T ports, 2 10/100/1000 Base-T ports, 2 1000 Base-X ports;

## Features

- > Telecom-Level Ethernet Access Switches
- S2200 Series supports the telecom-level Ethernet-ring protection protocol with a protection shift time of less than 50ms, STP/RSTP/MSTP, backup of active and standby uplinks, and LACP link

aggregation to cater to the requirements of high reliability of carriers;

 S2200 Series has powerful ACL functions to access and control L2-L7 data based on physical port, VLAN, MAC, IP and protocol port ID, and providing carriers



flexible and various policy control methods;

- S2200 Series supports In-Service Software Upgrade (ISSU) to ensure the unremitting data forwarding during system upgrade;
- S2200 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;

#### Carrier-Level Qos Policies

- S2200 Series supports priority retagging and complicated flow classification based on VLAN, MAC, source address, destination address, IP or priority to better streamline carrier's services;
- S2200 Series provides 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;
- S2200 Series supports multiple queue schedule algorithms such as SP, WRR, or "SP plus WRR":

- S2200 Series supports the IPv6 protocol suite, IPv6 neighbor discovery, ICMPv6, path MTU discovery, etc.
- S2200 Series supports Ping, Traceroute, Telnet, SSH, ACL and so like on the basis of IPv6, meeting IPv6 networks' equipment management requirements and service control requirements;

#### 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+;
- S2200 Series supports storm/multicast/unicast limit which ensures the normal running of equipment in harsh network conditions;

#### Varied Ipv6 Solutions



- S2200 Series supports perfect ring detection mechanism which ensures the long-term stable running of network;
- S2200 Series supports port isolation within the same VLAN, DHCP-Snooping, and IP plus MAC plus Port binding for ensuring user data security;

#### Management and Maintenance

- S2200 Series supports many management modes such as the console port, Telnet, SSH;
- S2200 Series supports the WEB management mode, which is easy and

## **Specifications**

efficient so that it makes installation and debugging convenient;

- S2200 Series supports TFTP-patterned file upload/download management;
- S2200 Series supports ISSU;
- S2200 Series supports SNMP and BDCOM NMS smart network management platform to realize automatic equipment discovery, network topology management, equipment configuration management, performance data statistics and analysis and trouble management.

ltem	S2210	S2212	S2228C	S2228FB	S2448C
Backplane	5.6Gbps	9.6Gbps	12.8Gbps	12.8Gbps	17.6Gbps
Forwarding rate	4.2Mpps	7.2Mpps	9.6Mpps	9.6Mpps	13.2Mpps
MAC	8K	8K	16K	8K	8K
Ports	1 Console port, 8 100M TX ports, 2 GE SFP ports	1 Console port, 8 100M TX ports, 4 GE SFP ports	1 Console port, 24 100M TX ports, 4 GE Combo ports (SFP, support 1000M/100M auto-adaptation)	1 Console port, 24 100M SFP ports, 2 GE TX ports, 2 GE Combo ports (SFP)	1 Console port, 48 100M TX ports, 2 GE TX ports, 2 GE SFP ports
Dimensions	240×150×42	280×180×44	440×180×44	442.5×315×44	442.5×225.5×44



(W×H×D)					
Consumption	<15W	<15W	<15W	<45W	<40W
Power	AC: 100V-240V, 50Hz±10%				
supply	DC: -36V~-72V				
Environment	Operating temperature and humidity: $0^\circ C$ -50 $^\circ C$ , 10%-90% non-condensing				
LINIOIIIIent	Storage temperature and humidity: -20°C-70°C; 5%-95% non-conden			condensing	
	Static configu	ration and dyr	namic MAC lear	ning	
MAC	MAC browsing	g and remova	I		
exchange	Configurable	aging time of	the MAC addres	S	
exchange	Limited number of learnable MAC addresses				
	MAC filtration				
	4K VLAN				
	GVRP				
VLAN	1:1 VLAN mapping and N:1 VLAN mapping				
	QinQ				
	Private VLAN				
STP	802.1D (STP), 802.1W (RSTP) and 802.1S (MSTP)				
SIF	BPDU protect	ion, root prote	ection, and loop	back protection	
	IGMP v1/v2/v	3			
	IGMP snooping				
Multicast	IGMP Fast Leave				
	Multicast group strategy and quantity limitation				
	Multicast flow	copying over	VLANs		
	ICMPv6, DHC	Pv6, ACLv6 a	and IPv6 Telnet		
	IPv6 neighbor discovery				
IPv6	Path MTU discovery				
	MLD V1/V2				
	IGMP snooping				
QoS	Flow classification based on each field in the heads of L2/L3/L4 protocols				



	CAR flow limit	
	802.1P/DSCP priority re-labeling	
	SP, WRR, and SP+WRR	
	Congestion avoidance mechanisms like Tail-Drop and WRED	
	Flow monitoring and flow shaping	
	L2/L3/L4 ACL flow identification and filtration	
	DDoS attack prevention, TCP's SYN Flood attack prevention, UDP Flood attack	
	prevention, etc	
	Broadcast/multicast/unknown unicast storm-control	
Security	Port isolation	
features	Port security, and "IP+MAC+port" binding	
	DHCP Snooping and DHCP option 82	
	IEEE 802.1x authentication	
	Radius BDTacacs+ authentication	
	Level-based command line protection	
	Static/LACP link aggregation	
Reliability	EAPS and ERPS	
	ISSU uninterrupted system upgrade	
Management	Console, Telnet, SSH, Web	
	SNMP v1/v2/v3	
	TFTP	
	RMON	

# Ordering Information

Item	Description	
S2200 Series		
6224.0	Ethernet switch with 8 100M ports and 2 GE ports (1 Console	
S2210	port, 8 100M TX ports, 2 GE SFP ports; AC220V power	



S2212port, 8 100M TX ports, 4 GE SFP ports; AC220V pow supply, fanless, 1U, desktop, wall-mounted installation)S2228CEthernet switch with 24 100M ports and 4 GE Combo ports Console port, 24 100M TX ports, 4 GE Combo ports (supports SFP, 100M/1000M auto-adaptation), AC220 power supply; fanless, 1U, standard 19-inch rack-mount installation)S2228FBEthernet switch with 24 100M SFP ports, 2 GE TX ports, at 2 GE Combo ports (1 Console port, 24 100M SFP ports, 2 GE TX ports, at 2 GE Combo ports (1 Console port, 24 100M SFP ports, 2 GE TX ports, at 2 GE Combo SFP ports; AC220V power supply fanless, 1U, standard 19-inch rack-mounted installation)S2228FBEthernet switch with 24 100M SFP ports, 2 GE TX ports, at 2 GE Combo SFP ports; AC220V power supply fanless, 1U, standard 19-inch rack-mounted installation)S2448CSFP ports (1 Console, 48 100M TX ports, 2 GE TX ports, GE SFP ports; AC220V power supply; fanless, 1U, standar 19-inch rack-mounted installation)Optical modules100M optical modules100M optical modules100M SFP multi-mode (2Km, 1310nm, LC, DDM)FSFP-LX-15100M SFP single-mode (40Km, 1310nm, LC, DDM)FSFP-LX-40100M SFP single-mode (80Km, 1550nm, LC, DDM)FSFP-ZX-80100M SFP single-mode, single fiber (20Km, TX1310/RX155FSFP-LX-SM1310-20-BIDILC, DDM)				
S2212port, 8 100M TX ports, 4 GE SFP ports; AC220V pow supply, fanless, 1U, desktop, wall-mounted installation)Ethernet switch with 24 100M ports and 4 GE Combo ports Console port, 24 100M TX ports, 4 GE Combo ports (supports SFP, 100M/1000M auto-adaptation), AC220 power supply; fanless, 1U, standard 19-inch rack-mount installation)S2228FBEthernet switch with 24 100M SFP ports, 2 GE TX ports, at 2 GE Combo ports (1 Console port, 24 100M SFP ports, 2 GE TX ports, at 2 GE Combo ports (1 Console port, 24 100M SFP ports, 2 GE TX ports, at 2 GE Combo SFP ports; AC220V power supply fanless, 1U, standard 19-inch rack-mounted installation)S2228FBEthernet switch with 24 100M SFP ports, 2 GE TX ports, at 2 GE Combo SFP ports; AC220V power supply fanless, 1U, standard 19-inch rack-mounted installation)S2448CSFP ports (1 Console, 48 100M TX ports, 2 GE TX ports, GE SFP ports; AC220V power supply; fanless, 1U, standar 19-inch rack-mounted installation)Optical modulesI00M SFP single-mode (15Km, 1310nm, LC, DDM)FSFP-LX-15100M SFP single-mode (40Km, 1310nm, LC, DDM)FSFP-LX-80100M SFP single-mode, single fiber (20Km, TX1310/RX155FSFP-LX-SM1310-20-BIDI100M SFP single-mode, single fiber (20Km, TX1550/RX131FSFP-LX-SM1310-20-BIDI100M SFP single-mode, single fiber (20Km, TX1550/RX131		supply, fanless, 1U, desktop, wall-mounted installation)		
supply, fanless, 1U, desktop, wall-mounted installation)Ethernet switch with 24 100M ports and 4 GE Combo portsConsole port, 24 100M TX ports, 4 GE Combo portsConsole port, 24 100M TX ports, 4 GE Combo portsS2228C(supports SFP, 100M/1000M auto-adaptation), AC220power supply; fanless, 1U, standard 19-inch rack-mountinstallation)Ethernet switch with 24 100M SFP ports, 2 GE TX ports, at2 GE Combo ports (1 Console port, 24 100M SFP ports, 2 GTX ports, 2 GE Combo SFP ports; AC220V power supplyfanless, 1U, standard 19-inch rack-mounted installation)Ethernet switch with 48 100M ports, 2 GE ports and 2 GS2448CS2448COptical modules100M optical modulesFSFP-SX-1310100M SFP multi-mode (2Km, 1310nm, LC, DDM)FSFP-LX-40100M SFP single-mode (40Km, 1310nm, LC, DDM)FSFP-ZX-80100M SFP single-mode, single fiber (20Km, TX1310/RX155FSFP-LX-SM1310-20-BIDI100M SFP single-mode, single fiber (20Km, TX1550/RX131		Ethernet switch with 8 100M ports and 4 GE ports (1 Console		
Ethernet switch with 24 100M ports and 4 GE Combo portsS2228CEthernet switch with 24 100M TX ports, 4 GE Combo portsS2228C(supports SFP, 100M/1000M auto-adaptation), AC220 power supply; fanless, 1U, standard 19-inch rack-mount installation)S2228FBEthernet switch with 24 100M SFP ports, 2 GE TX ports, at 2 GE Combo ports (1 Console port, 24 100M SFP ports, 2 GE TX ports, at 2 GE Combo ports (1 Console port, 24 100M SFP ports, 2 GE TX ports, at 2 GE Combo SFP ports; AC220V power supply fanless, 1U, standard 19-inch rack-mounted installation)S2228FBEthernet switch with 24 100M SFP ports, 2 GE TX ports, at 2 GE Combo SFP ports; AC220V power supply fanless, 1U, standard 19-inch rack-mounted installation)S2448CSFP ports (1 Console, 48 100M TX ports, 2 GE TX ports, GE SFP ports; AC220V power supply; fanless, 1U, standard 19-inch rack-mounted installation)Optical modules100M SFP multi-mode (2Km, 1310nm, LC, DDM)FSFP-LX-15100M SFP single-mode (15Km, 1310nm, LC, DDM)FSFP-LX-80100M SFP single-mode (80Km, 1550nm, LC, DDM)FSFP-LX-SM1310-20-BIDI100M SFP single-mode, single fiber (20Km, TX1310/RX155 LC, DDM)FSFP-LX-SM1550-20-BIDI100M SFP single-mode, single fiber (20Km, TX1550/RX131	S2212	port, 8 100M TX ports, 4 GE SFP ports; AC220V power		
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power supply; fanless, 1U, standard 19-inch rack-mount installation)   S2228FB   Ethernet switch with 24 100M SFP ports, 2 GE TX ports, at 2 GE Combo ports (1 Console port, 24 100M SFP ports, 2 G TX ports, 2 GE Combo SFP ports; AC220V power supp fanless, 1U, standard 19-inch rack-mounted installation)   Ethernet switch with 48 100M ports, 2 GE ports and 2 G SFP ports (1 Console, 48 100M TX ports, 2 GE TX ports, GE SFP ports; AC220V power supply; fanless, 1U, standar 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 (40Km, 1310nm, LC, DDM)   FSFP-ZX-80 100M SFP single-mode (80Km, 1550nm, LC, DDM)   FSFP-LX-SM1310-20-BIDI LC, DDM)   FSFP-LX-SM1550-20-BIDI 100M SFP single-mode, single fiber (20Km, TX1550/RX131		Console port, 24 100M TX ports, 4 GE Combo ports		
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TX ports, 2 GE Combo SFP ports; AC220V power supp fanless, 1U, standard 19-inch rack-mounted installation)S2448CEthernet switch with 48 100M ports, 2 GE ports and 2 G SFP ports (1 Console, 48 100M TX ports, 2 GE TX ports, GE SFP ports; AC220V power supply; fanless, 1U, standar 19-inch rack-mounted installation)Optical modules100M optical modulesFSFP-SX-1310100M SFP multi-mode (2Km, 1310nm, LC, DDM)FSFP-LX-15100M SFP single-mode (15Km, 1310nm, LC, DDM)FSFP-LX-40100M SFP single-mode (40Km, 1310nm, LC, DDM)FSFP-ZX-80100M SFP single-mode (80Km, 1550nm, LC, DDM)FSFP-LX-SM1310-20-BIDILC, DDM)FSFP-LX-SM1550-20-BIDI100M SFP single-mode, single fiber (20Km, TX1550/RX131		2 GE Combo ports (1 Console port, 24 100M SFP ports, 2 GE		
S2448CEthernet switch with 48 100M ports, 2 GE ports and 2 G SFP ports (1 Console, 48 100M TX ports, 2 GE TX ports, GE SFP ports; AC220V power supply; fanless, 1U, standa 19-inch rack-mounted installation)Optical modules100M optical modulesFSFP-SX-1310100M SFP multi-mode (2Km, 1310nm, LC, DDM)FSFP-LX-15100M SFP single-mode (15Km, 1310nm, LC, DDM)FSFP-LX-40100M SFP single-mode (40Km, 1310nm, LC, DDM)FSFP-ZX-80100M SFP single-mode (80Km, 1550nm, LC, DDM)FSFP-LX-SM1310-20-BIDIFSFP-LX-SM1550-20-BIDI100M SFP single-mode, single fiber (20Km, TX1550/RX131	S2228FB	TX ports, 2 GE Combo SFP ports; AC220V power supply;		
S2448CSFP ports (1 Console, 48 100M TX ports, 2 GE TX ports, GE SFP ports; AC220V power supply; fanless, 1U, standar 19-inch rack-mounted installation)Optical modules100M optical modulesFSFP-SX-1310100M SFP multi-mode (2Km, 1310nm, LC, DDM)FSFP-LX-15100M SFP single-mode (15Km, 1310nm, LC, DDM)FSFP-LX-40100M SFP single-mode (40Km, 1310nm, LC, DDM)FSFP-ZX-80100M SFP single-mode (80Km, 1550nm, LC, DDM)FSFP-LX-SM1310-20-BIDIFSFP-LX-SM1550-20-BIDI100M SFP single-mode, single fiber (20Km, TX1550/RX131		fanless, 1U, standard 19-inch rack-mounted installation)		
S2448CGE SFP ports; AC220V power supply; fanless, 1U, standa 19-inch rack-mounted installation)Optical modules100M optical modulesFSFP-SX-1310FSFP-SX-1310100M SFP multi-mode (2Km, 1310nm, LC, DDM)FSFP-LX-15100M SFP single-mode (15Km, 1310nm, LC, DDM)FSFP-LX-40100M SFP single-mode (40Km, 1310nm, LC, DDM)FSFP-ZX-80100M SFP single-mode (80Km, 1550nm, LC, DDM)FSFP-LX-SM1310-20-BIDIFSFP-LX-SM1550-20-BIDI100M SFP single-mode, single fiber (20Km, TX1550/RX131		Ethernet switch with 48 100M ports, 2 GE ports and 2 GE		
GE SFP ports; AC220V power supply; fanless, 1U, standa 19-inch rack-mounted installation)Optical modules100M optical modulesFSFP-SX-1310100M SFP multi-mode (2Km, 1310nm, LC, DDM)FSFP-LX-15100M SFP single-mode (15Km, 1310nm, LC, DDM)FSFP-LX-40100M SFP single-mode (40Km, 1310nm, LC, DDM)FSFP-ZX-80100M SFP single-mode (80Km, 1550nm, LC, DDM)FSFP-LX-SM1310-20-BIDIFSFP-LX-SM1550-20-BIDI100M SFP single-mode, single fiber (20Km, TX1550/RX131	004400	SFP ports (1 Console, 48 100M TX ports, 2 GE TX ports, 2		
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FSFP-LX-40100M SFP single-mode (40Km, 1310nm, LC, DDM)FSFP-ZX-80100M SFP single-mode (80Km, 1550nm, LC, DDM)100M SFP single-mode, single fiber (20Km, TX1310/RX155FSFP-LX-SM1310-20-BIDILC, DDM)FSFP-LX-SM1550-20-BIDI100M SFP single-mode, single fiber (20Km, TX1550/RX131	FSFP-SX-1310	100M SFP multi-mode (2Km, 1310nm, LC, DDM)		
FSFP-ZX-80100M SFP single-mode (80Km, 1550nm, LC, DDM)100M SFP single-mode, single fiber (20Km, TX1310/RX155FSFP-LX-SM1310-20-BIDILC, DDM)FSFP-LX-SM1550-20-BIDI100M SFP single-mode, single fiber (20Km, TX1550/RX131	FSFP-LX-15	100M SFP single-mode (15Km, 1310nm, LC, DDM)		
FSFP-LX-SM1310-20-BIDILC, DDM)FSFP-LX-SM1550-20-BIDI100M SFP single-mode, single fiber (20Km, TX1550/RX131)	FSFP-LX-40	100M SFP single-mode (40Km, 1310nm, LC, DDM)		
FSFP-LX-SM1310-20-BIDILC, DDM)FSFP-LX-SM1550-20-BIDI100M SFP single-mode, single fiber (20Km, TX1550/RX131)	FSFP-ZX-80	100M SFP single-mode (80Km, 1550nm, LC, DDM)		
FSFP-LX-SM1550-20-BIDI 100M SFP single-mode, single fiber (20Km, TX1550/RX131		100M SFP single-mode, single fiber (20Km, TX1310/RX1550,		
	FSFP-LX-SM1310-20-BIDI	LC, DDM)		
LC, DDM)	FSFP-LX-SM1550-20-BIDI	100M SFP single-mode, single fiber (20Km, TX1550/RX1310,		
		LC, DDM)		
FSFP-LX-SM1310-40-BIDI 100M SFP single-mode, single fiber (40Km, TX1310/RX155	FSFP-LX-SM1310-40-BIDI	100M SFP single-mode, single fiber (40Km, TX1310/RX1550,		



FSFP-LX-SM1550-40-BIDI	LC, DDM)
	100M SFP single-mode, single fiber (40Km, TX1550/RX1310,
	LC, DDM)
	100M SFP single-mode, single fiber (80Km, TX1310/RX1550,
FSFP-LX-SM1310-80-BIDI	LC, DDM)
FSFP-LX-SM1550-80-BIDI	100M SFP single-mode, single fiber (80Km, TX1550/RX1310,
	LC, DDM)
GE optical modules	
GSFP-TX-B	GE SFP-to- RJ45 TX 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)
	GE SFP single-mode, single fiber (10Km, TX1310/RX1550,
GSFP-LX-SM1310-10-BIDI	LC, DDM)
GSFP-LX-SM1550-10-BIDI	GE SFP single-mode, single fiber (10Km, TX1550/RX1310,
	LC, DDM)
	GE SFP single-mode, single fiber (20Km, TX1310/RX1550,
GSFP-LX-SM1310-20-BIDI	LC, DDM)
GSFP-LX-SM1550-20-BIDI	GE SFP single-mode, single fiber (20Km, TX1550/RX1310,
	LC, DDM)
	GE SFP single-mode, single fiber (40Km, TX1310/RX1550,
GSFP-LX-SM1310-40-BIDI	LC, DDM)
GSFP-LX-SM1550-40-BIDI-1310	GE SFP single-mode, single fiber (40Km, TX1550/RX1310,
	LC, DDM)
GSFP-LX-SM1490-80-BIDI	GE SFP single-mode, single fiber (80Km, TX1490/RX1550,
GSFP-LX-SM1550-80-BIDI	LC, DDM)



GE SFP single-mode, single fiber (80Km, TX1550/RX1490, LC, DDM)

#### For More Information

For more information about BDCOM S2200 Series, please contact your local BDCOM account representative.

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