

BDCOM BD-S2800-24E Series 100M&1000M Access Switches



Product Overview

BDCOM S2800-24E 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.



S2800-24E 24 10/100 Base-T ports, 4 GE Combo ports (10/100/1000 Base-T ports or 100/1000 Base-X ports);

Product Characteristics

> Telecom-Level Ethernet Access Switches

- S2800-24E 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;
- S2800-24E 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;
- S2800-24E Series supports In-Service Software Upgrade (ISSU) to ensure the unremitting data forwarding during system upgrade;
- S2800-24E 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

- S2800-24E Series supports IEEE 802.3AF/AT standard, built-in large power supply with 24 ports.
- S2800-24E Series supports hot restart and POE non-stop power supply.
- S2800-24E Series supports the configuration of TX port priority when the power is inadequate.



S2800-24E Series' ports and power supply support up to 2KV thunder-proof function.

Varied Qos Policies

- S2800-24E 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;
- S2800-24E 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;
- S2800-24E Series supports multiple queue schedule algorithms such as SP, WRR, or "SP plus WRR";

Comprehensive Ipv6 Solutions

- S2800-24E Series supports the IPv6 protocol suite, IPv6 neighbor discovery, ICMPv6, path
 MTU discovery, etc.
- S2800-24E 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;

Strong 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+;
- S2800-24E Series supports storm/multicast/unicast limit which ensures the normal running of equipment in harsh network conditions;
- S2800-24E Series supports perfect ring detection mechanism which ensures the long-term stable running of network;



S2800-24E Series supports port isolation within the same VLAN, DHCP-Snooping, and IP plus MAC plus Port binding for ensuring user data security;

Easy Management and Maintenance

- S2800-24E Series supports many management modes such as the console port, Telnet,
 SSH;
- S2800-24E Series supports the WEB management mode, which is easy and efficient so that it makes installation and debugging convenient;
- S2800-24E Series supports TFTP-patterned file upload/download management;
- S2800-24E Series supports ISSU;
- S2800-24E 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.

Specifications

Item	S2800-24E	
Backplane	12.8Gbps	
Forwarding rate	9.6Mpps	
MAC	16K	
Ports	1 Console port, 24 100M TX ports, 4 GE Combo ports	
Dimensions		
$(W \times H \times D)$	440×180×44	
Consumption	<15W	

Item	S2228P-800	
Backplane	12.8Gbps	
Forwarding	9.6Mpps	



MAC table	8K
Ports	24 100M TX ports + 4 1000M/100M auto-adaptation combo ports
Dimensions	440×280×44
mm (W×D×H)	
Consumption	<15W
_	AC: 100V-240V , 50Hz±10%
Power	DC: -36V~-72V
	Operating temperature/humidity: 0°C-50°C; 10%-90% non-condensation
Environment	Storage temperature/humidity: -20°C-70°C; 5%-95% non-condensation
	Static configuration and dynamic MAC learning
	MAC browsing and removal
MAC	Configurable aging time of the MAC address
exchange	Limited number of learnable MAC addresses
	MAC filtration
	4K VLAN
	GVRP
VLAN	1:1 VLAN mapping and N:1 VLAN mapping (S2108POE doesn't support)
	QinQ (S2108POE doesn't support)
	Private VLAN
CTD	802.1D (STP), 802.1W (RSTP) and 802.1S (MSTP)
STP	BPDU protection, root protection, and loopback protection
	IGMP v1/v2/v3
	IGMP Snooping
Multicast	IGMP Fast Leave
	Multicast group strategy and quantity limitation
	Multicast flow copying over VLANs (S2108POE doesn't support)
IPv6	ICMPv6, DHCPv6 and IPv6 Telnet
(S2108POE	IPv6 neighbor discovery
doesn't	MLD V1/V2
support)	MLD Snooping
QoS	Flow classification based on L2~4 protocols
	CAR flow limit
	802.1P/DSCP priority re-labeling (S2108POE doesn't support)



	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 (S2108POE doesn't support)
	DDoS attack prevention, TCP's SYN Flood attack prevention, UDP Flood attack prevention, etc
	Broadcast/multicast/unknown unicast storm-control
Security features	Port isolation
	Port security, and "IP+MAC+port" binding (S2108POE doesn't support)
	DHCP snooping and DHCP option 82(S2108POE doesn't support)
	IEEE 802.1x authentication
	Radius BDTacacs+ authentication
	Level-based command line protection
Reliability	Static/LACP link aggregation
	EAPS, ERPS (S2108POE doesn't support)
	ISSU uninterrupted system upgrade
Management	Console, Telnet, SSH 2.0
	Browser-based Web management
	SNMP v1/v2/v3
	TFTP
	RMON

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)
	100M SFP single-mode, single fiber (20Km, TX1310/RX1550, LC,
FSFP-LX-SM1310-20-BIDI	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/RX1550, LC,



FSFP-LX-SM1550-40-BIDI	DDM)
	100M SFP single-mode, single fiber (40Km, TX1550/RX1310, LC,
	DDM)
	100M SFP single-mode, single fiber (80Km, TX1310/RX1550, LC,
FSFP-LX-SM1310-80-BIDI	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, LC,
GSFP-LX-SM1310-10-BIDI	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, LC,
GSFP-LX-SM1310-20-BIDI	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, LC,
GSFP-LX-SM1310-40-BIDI	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, LC,
GSFP-LX-SM1550-80-BIDI	DDM)
	GE SFP single-mode, single fiber (80Km, TX1550/RX1490, LC,



	DDM)
GSFP-LX-SM1490-120	GE SFP single-mode, dual-fiber (120Km, TX1490/RX1550, LC, DDM)
GSFP-LX-SM1550-120	GE SFP single-mode, dual-fiber (120Km, TX1550/RX1490, LC, DDM)

For More Information

For more information about BDCOM S2800-24E Series, please contact your local BDCOM account representative.

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