

BDCOM S2228/S2228PoE

——Hi-performance Gigabit Ethernet Switch

Proudly presented by Shanghai Baud Data Communication Co., Ltd. (BDCOM), BDCOM S2228/S2228PoE is a modularized hi-performance workgroup-level or enterprise-scale switch, with 24 Fast Ethernet ports and 4 1000M TX/SFP combo ports. BDCOM S2228/S2228PoE can connect all (Fast) Ethernet devices so that your investment is protected. The hi-speed connection it provides among workgroups can boost the capability of server clusters, and solves the bottleneck caused by increasing users and limited bandwidth, making network resources more readily available to you. More importantly, all of the advantages are brought to you by BDCOM at low costs and with easy maintenance.

Application

- Hi-performance inter-workgroup or enterprise-scale switching

Features

Performance

- 36 Gbps switch fabric, hardware routing, wire-speed L2 forwarding rate: 9.5 Mpps
- 80-km transfer by Gigabit optical fiber, direct connection to WAN

Security and reliability

- IEEE 802.1x and other methods for user authentication
- Powerful ACL supports L2-L7 data filtering
- QinQ support. Double VLAN security
- RPS power hot standby

Easy maintenance

- Automatic recognition for straight-through or cross-over cables
- Stackable physically and through cluster technology. Central management with unified IP address saves IP addresses
- Management via CONSOLE port, Web, SNMP, Telnet, etc.
- Support (BDCOM) Broad Director, HP Open View, Cisco Works 2000

Traffic and broadcast control

- Auto-detection and restraining of broadcast storm, IGMP snooping, effectively restrict broadcast flooding
- Full- and half- duplex traffic control
- Ethernet port rate limiting with 1 M step size
- IP multicast and QoS support

Specifications

Processor	MPC852T
FLASH	4 MB
Memory	32 MB
Port & Slot	24 * 10/100M RJ-45 MDI/MDI-X Self-adapting Ports 4 * 1000M TX/SFP combo ports 1 * Console Port
Switch Fabric	36 Gbps
Forwarding Rate	All wire-speed forwarding and filtering
Switching Mode	Store-and-forward
MAC address Table Size	8 K
Queuing Buffer	64 MB
Dimensions (L × W × H)	442 mm × 316 mm × 44 mm
Weight	6.6kg
Power Consumption	28 W (max.)
Power Input	AC 100 ~ 240 V, 47 ~ 63 Hz, 1A/230V
Stacking	Up to 16 in a stack
LED Indicators	Power, system, link, activity, 10/100M
Temperature	Operating: 0 ~ 50°C, non-operating: -40 ~ 70°C
Humidity	0 ~ 90% (no condensing)

Functions

Spanning Tree	IEEE 802.1D STP, IEEE 802.1w RSTP, 802.1s MSTP, PVST/PVST+
VLAN	Port-based VLAN, 802.1Q tag VLAN, Private VLAN, GVRP dynamic VLAN configuration, QinQ
Traffic Control	Back pressure at half-duplex, 802.3x at full-duplex, CAR support, 1M step size for 100-M ports, 8 M step size for Gigabit ports
Broadcast Control	Stop sending at threshold to restrict broadcast storms
Multicast Control	IGMP snooping, IGMP v1/v2/v3

Port Trunking	Up to 6 groups with up to 8 ports per group, dynamic LACP or static aggregation
Port Mirroring	Supported. Can be based on flow classification
Clustering	Hardware stack upto 16 ,Software stack upto 32 Up to 256, manageable through single IP
Security	IEEE 802.1x port-based user authentication Port Security Hardware support for IP ACL, MAC ACL, VLAN ACL Web user authentication Remote authentication through RADIUS, TACACS+ User privilege classification and password protection
QoS	Head Of Line (HOL) blocking prevention mechanism 4 dispatching queues per port, mapping the 8 priority queues in 802.1p WRED, WFQ, SP, and FIFO queuing algorithms Best Effort Service Differentiated Service Strict Priority Weighted Round Robin First Come First Serve TOS re-tagging RTS
Network Management	SNMP v1/v2 RMON (Group 1, 2, 3, 9) Telnet Command Line Interface (CLI) Web interface Support BDCOM network management tools suite: Broad Director NTP SSH PDP (compatible with Cisco CDP)
Software Upgrade	TFTP/Z-MODEM
Configuration Upload/download	TFTP/Z-MODEM

Modules Supported by Gigabit Slots

BDCOM S2228	Managed, stackable Ethernet switch with 24 10/100M Fast Ethernet ports, 4 * 1000M TX/SFP combo ports, 1 CONSOLE, and standard AC power supply
BDCOM S2228-DC	Managed, stackable Ethernet switch with 24 10/100M Fast Ethernet ports, 4 * 1000M TX/SFP combo ports, 1 CONSOLE, and DC power supply
BDCOM S2228PoE	Managed, stackable Ethernet switch with 24 10/100M Fast Ethernet ports, 4 * 1000M TX/SFP combo ports, 1 CONSOLE , PoE support
LS-1FE-TX	1-port 100-M RJ45 Ethernet Module

LS-1FE-FX(SM)	1-port 100-M Single-mode 1310 nm, 15 km, SC interface Optical Module
LS-1FE-FX (SM)-40	1-port 100-M Single-mode 1310 nm, 40 km, SC interface Optical Module
LS-1FE-FX(MM)	1-port 100-M Multi-mode 1310 nm, 2 km, SC interface Optical Module
LS-1GE-TX	1-port 1000-M RJ45 Ethernet Module
LS-1GE-TX/SFP	1-port 1000-M SFP/RJ45 Ethernet Combo Module (need GSFP module)
GSFP-SX	1-port 1000BaseSX SFP module, multi-mode, 550 m, 850 nm
GSFP-LX-10	1-port 1000BaseLX SFP module, single-mode, 10 km, 1310 nm
GSFP-LX-40	1-port 1000BaseLX SFP module, single-mode, 40 km, 1310 nm
GSFP-ZX-80	1-port 1000BaseLX SFP module, single-mode, 80 km, 1550 nm

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