

BDCOM S2224

—Hi-performance, Network Manageable Gigabit Ethernet Switch

Proudly presented by Shanghai Baud Data Communication Co., Ltd. (BDCOM), BDCOM S2224 is a modularized hi-performance workgroup or enterprise-edge switch, with 24 Fast Ethernet ports and 2 expansion slots for Gigabit connections. BDCOM S2224 can connect all (Fast) Ethernet devices so that user investment is protected. The hi-speed connection it provides among workgroups can boost the capability of server clusters, and overcome the bottleneck caused by increasing users and limited bandwidth, making network resources more readily available to users. More importantly, all of the advantages are brought to you by BDCOM at low costs and with easy maintenance.



S2224

Application

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

Features

Performance

- 24 Gbps switch fabric, congestion-less design, all wire-speed forwarding rate
- 80-km transfer by Gigabit optical fiber, direct connection to WAN

Security and reliability

- Quota system for connected hosts per port
- IEEE 802.1x port-based user authentication
- Port trunking adds to bandwidth and redundancy

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.

- Software and BootRom upgrade through TFTP/Z-MODEM

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 64 K step size(1 M step size for rate over 1.8 M)
- Advanced buffer management, 802.1p support. 4 dispatching queues per port, mapping the 8 priority queues in 802.1p
- IP multicast and QoS support

Specifications

Port & Slot	24 * 10/100M RJ-45 MDI/MDI-X Self-adapting Ports 2 * 100/1000M Ethernet Expansion Slots 1 * Console Port
Switch Fabric	24 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 Input	AC 100~240 V, 47 ~ 63 Hz, 1A/230V, double power supply hot standby
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, link path backup, IEEE 802.1w RSTP
VLAN	Port-based VLAN, 802.1Q tag VLAN, GVRP dynamic VLAN configuration Vlan Stacking ,port isolation at per VLAN, QinQ
VLAN Number	4K, partition at will
Traffic Control	Back pressure at half-duplex, 802.3x at full-duplex, port rate limiting: 64 K step size
Broadcast Control	Stop sending at threshold to restrict broadcast storms
Multicast Control	IGMP snooping

Port Trunking	Up to 8 groups with up to 4 ports per group, dynamic LACP or static aggregation
Clustering	Up to 256, manageable through single IP
Security	IEEE 802.1x port-based user authentication Remote authentication through RADIUS, TACACS+ Port Security
QoS	4 dispatching queues per port, mapping the 8 priority queues in 802.1p
Network Management	SNMP, RMON, Telnet, Command Line Interface (CLI) Support BDCOM network management tools suite: Broad Director, and other general network management software
Software Upgrade	TFTP/Z-MODEM
Configuration Upload/download	TFTP/Z-MODEM

Modules Supported by Gigabit Slots

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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