

BDCOM™ S3500E Switch

— High Performance Gigabit Ethernet Switch

BDCOM™ S3500E series belong to enhanced L3 congestion-less switch series, which are capable of multi-layer switching and wire-speed route forwarding. Its high-performance ASIC and modular design enable you to employ a suitable number of interfaces and to configure scales of their networks with great flexibility, all based on their individual requirements. It supports plenty of access authentication models that can be flexibly configured, making it especially ideal for community access networks. Due to its high performance and low cost, BDCOM™ S3524E, S3524GXE are considered a very competitive Ethernet switching solution for community networking and workgroup networking in enterprise networks.



S3524E

Application

- Aggregation level of enterprise networks
- Giga core of small- to Medium-sized business networks
- Connection server cluster of data centers
- A multi-layer solution with high performance but low cost, which is applied when multiple Giga ports are needed in other situations where multiple Giga ports are needed

Features

Excellent performance

- 64 Gbps switch fabric
- Hardware routing, wire-speed L3 switching, packet forwarding rate: 36 Mpps
- Giga optical fiber supports up to 80 km long-distance transfer, direct connection to MAN backbone networks

Security and reliability

- Quota system for connected hosts per port
- IEEE 802.1x port-based user authentication
- Ethernet port trunking provides more bandwidth and system redundancy

- Powerful ACL supports L2-L4 data filtering
- Web portal authentication
- Redundant power supply

Easy maintenance

- Supports device stacking through cluster technology. Central management with unified IP address saves IP addresses
- Management via CONSOLE port, Web, SNMP, etc.
- BootRom and other software upgrade through TFTP/Z-MODEM
- Support DHCP and relay, provide dynamic IP address assignment
- Support SFP standard interface, protect your investment

Powerful traffic and broadcast control

- Automatically detect and restrain broadcast storm, support IGMP datagram snooping, effectively restrict broadcast flooding
- Full- and half- duplex traffic control
- Ethernet port bit rate quota
- Advanced buffer management supports 802.1p, with 4 dispatching queues per port mapping the 8 priority queues in 802.1p
- IP multicast and QoS support

Multiple routing polices

- Static routing
- Support RIP v1/v2, OSPF v2, and many other dynamic routing protocols
- Support VRF
- Support PIM-SM, PIM-DM, DVMRP and many other multicast routing protocols

Specifications

	S3524E	S3524GXE
Port	20 10/100/1000M TX Ports 4 SFP/TX Combo Ports	20 Gigabit SFP Slots 4 SFP/TX Combo Ports
Switch Fabric	64 G	
Forwarding Rate	36 Mpps	
Switching Mode	Store-and-forward	
MAC Address Table Size	32 K	
Max. VLAN	4 K	
Routing Table Size	20 K	

L2 main functions

VLAN	Port-based VLAN, 802.1Q tag VLAN, GVRP dynamic VLAN configuration
Port Mirroring	Supported
Spanning Tree	IEEE 802.1D-1998 Spanning Tree, connection path backup, IEEE 802.1w (RSTP)
QoS	IEEE 802.1p/Tos/DifferServ, 4 dispatching queues per port, mapping the 8 priority queues in 802.1p
Port Trunking	Up to 32 groups with up to 8 ports per group

IP routing functions

Unicast	Static, RIP/RIP2, OSPF v2, BGP-4, VRF
Multicast	PIM-SM, PIM-DM
Redundant Routing	VRRP

Network management and operation maintenance

CLI	Supported (CONSOLE and telnet)
HTTP	Supported (Chinese/English)
SNMP	RFC1157(v1), RFC1901-RFC1908(v2)
RMON	1, 2, 3, 9RFC1757
Software Upgrade	TFTP/Z-MODEM
Configuration Upload/download	TFTP/Z-MODEM

Physical and electrical parameters

Dimensions (mm) (L × W × H)	440 × 280 × 44.5
Weight	< 5 kg
Power Consumption	< 30 W
Power Supply	AC 100 ~ 240 V, 47 ~ 63 Hz, DC 44 ~ 53 V

Working environment

Temperature	Operating: 20 ~ 50°C, non-operating: -40 ~ 70°C
Humidity	10 ~ 90% (no condensing)

Order Information

BDCOM S3524E	All-Giga-port Ethernet switch. 20+4 ports (1 CONSOLE port, 20 10/100/1000M Base-T Ethernet ports, 4 SFP/1000 Base-TX combo ports), support MCE
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BDCOM S3524GXE	All-Giga-port Ethernet switch. 20+4 ports (1 CONSOLE port, 20 gigabit SFP slots, 4 gigabit SFP/TX combo ports), support MCE
GSFP-TX	1-port 1000BaseT SFP module, RJ45 Ethernet
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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