FS

S3200 Series Switches

IDEAL FOR NEXT GENERATION ENTERPRISE, WIFI6 ACCESS, NAS, AND 2.5G LAN NETWORKS

Models: S3200-8MG4S; S3200-8MG4S-U

Overview

S3200 Series routing switches, high-performance Layer 2+ Ethernet switch with 2.5G Multi-Gigabit and 10G SFP+ Ports compact 1U form factor.

Built from the ground up with the combination of advanced hardware and software, the switch provides a Layer 2+ routing solution for next generation HOME, SMBs, Enterprises, Wi-Fi 6 AX Access, high speed NAS, and 2.5G LAN networks.

Benefits

- Layer 2+ Switches
- Multiple Rates: 100M/1000M/2.5G BASE-T, 10G SFP+ Uplinks
- Industry-standard CLI & Web Management
- Support QoS, ACL, OSPF, RIP and DHCP Server
- Comprehensive Network Security Policies

Product Characteristics

Policies Varied Port Types

Support 10M/100M/1G/2.5G/10G ports to meet different network requirements.

Ultra-Long-Distance PoE++

The S3200-8MG4S-U POE switch supports optical-electrical synergy, implementing 100m PoE+ (45W) and 2.5 Gbit/s access for Wi-Fi 6 Aps and other PDs. Compatible 802.3AF/AT/BT standard.

High Reliability

Support STP/RSTP/MSTP, etc. to protect the network traffic all-around effectively.
Support LACP/STP/RSTP/MSTP/load-balancing, etc. to protect thenetwork traffic all-around effectively.

Outstanding QoS Control

Support multi-stage scheduling technology such as SP (strict priority) to prevent congestion.
Support flexible queue scheduling mechanism to do the shaping for queue or port traffic.

Triple-play Service Support

Support rich multicast protocol set (IGMP snooping, IGMP v1/v2/v3).
Support up to 1K multicast groups.

Comprehensive Network Security Policy

IPv4/ IPv6/MAC ACL can filter IPv4/ IPv6/ Non-IP packet respectively.
Dynamic ARP Inspection and IP Source Guard features prevent network from malicious ARP attack.
Support Storm Control feature.
Support centralized 802. 1x authentication feature to forbidden illegal user accessing network.

Convenient Management Features

An industry-standard command-line interface (CLI), accessed through the console port or Telnet, provides a familiar user interface and command set for users to manage switches.
An embedded user-friendly web interface helps users to quickly and simply.
Support SNMP v1/v2c/v3, SSH, and SSL.

Technical Specification

S3200 series switches come with advanced hardware architecture design and abundant L2+ features. Here's a look at the details.

CHARACTERISTICS

	S3200-8MG4S	S3200-8MG4S-U
Ports		
100/1000/2500BASE-T RJ45	8	8
10G SFP+	4	4
PoE Ports	N/A	8*AF/AT/BT 45W Max
Console Port	1	1
Operating System		
OS	FSOS	FSOS
RTL9313		
CPU	RTL9313	RTL9313
Performance		
Layer Type	Layer 2+	Layer 2+
Switching Capacity	120 Gbps	120 Gbps
Forwarding Rate	89.28 Mpps	89.28 Mpps
Flash Memory	128MB	128MB
SDRAM	4GB	4GB
Packet Buffer	16MB	16MB
Jumbo Frame	12K	12K
MAC Address	32K	32K
Number of VLANs	4K	4K
MTBF (Hours)	>50K	>50K
Authentication Methods	802.1X, AAA	802.1X, AAA
ARP Table	32000	32000

CHARACTERISTICS

	S3200-8MG4S	S3200-8MG4S-U
Remote Management Protocol	Telnet/SSH/WEB GUI/SNMP	Telnet/SSH/WEB GUI/SNMP
Status Indicators	System, LINK Activity, PWR	System, LINK Activity, PWR, PoE
Power		
Max. Power Consumption	35W	35W/250W
Input Voltage	100-240Vac, 50/60Hz	100-240Vac, 50/60Hz
Physical and Environmental		
Dimensions (HxWxD)	1.71"x12.5"x8.15" (43.6x320×207mm)	1.71"x12.5"x8.15" (43.6x320×207mm)
Rack Space	1U	1U
Power Device	1	1
Fan Number	1	2
Airflow	Left-to-Right	Left-to-Right
Weight	3kg	3kg
Operating Temperature	-10ºC to 50ºC (14°F to 122°F)	-10ºC to 50ºC (14°F to 122°F)
Storage Temperature	-40ºC to 70ºC (-40°F to 158°F)	-40ºC to 70ºC (-40°F to 158°F)
Operating Humidity	10% to 90% (Non-condensing)	10% to 90% (Non-condensing)
Storage Humidity	0 to 95% (Non-condensing)	0 to 95% (Non-condensing)
Temperature Alarm	55ºC	55ºC
Warranty		
Warranty	5 Years	5 Years

FEATURES

Functionality	Description
MAC Address Table	• Static MAC Addresses • MAC Address Filtering
Flow Control	• 802.3x (Full-duplex) • Back-pressure (Half-duplex)
Spanning Tree	• IEEE 802.1D (STP) • IEEE 802.1w (RSTP) • IEEE 802.1s (MSTP) 64 Instances • Auto Edge Port • BPDU Filtering • Self Loop Detection
Link Aggregation	• IEEE 802.3ad LACP • Static Trunk • Max. Groups (64) • Max. Ports/Groups (8) • Traffic Load Balancing
VLAN	• Voice VLAN: 4K Static, Port-based, IEEE 802.1Q Tagged-based, 8 Groups Protocol-based, 1K (shared) MAC-based VLAN • Surveillance VLAN: 16 OUI Mode (Auto/Manual) • Basic QinQ (IEEE 802.1ad) • GVRP
IP Routing	• Static routing • RIP v1/v2, OSPF v1/v2
Multicast	• Common: 1K Multicast Groups, Immediate Leave, Static/Forbidden Router Port, Static/Forbidden Forward Port, Filtering (128 Profiles), Throttling • IGMP Snooping: IGMP v1/v2, v3 Basic (BISS), v2/v3 Querier • MLD v1/v2 Snooping • Multicast VLAN Registration (MVR)
QoS	• 8 Queues/Port Priority Queue • Queue Scheduling: WRR, WFQ, Strict Priporiity, Hybrid(WRR+SP or WFQ+SP) • Class of Service: Port-based, 802.1p, IP TOS Precedence, IP DSCP • Trusted QoS • Port-based (Ingress/Egress) Rate Limit

FEATURES

Functionality	Description
Access Control List (ACL)	• 2048 Access Rules • ACL Type: L2/L3/L4 ACL , MAC-based ACL , 512 IPv4-based ACL, IPv6-based ACL
Security Features	• AAA Authentication • TACACS+ • RADIUS • Authentication Manager: IEEE 802.1X, MAC Auth, Web Auth, Guest VLAN, Port-based, Host-based • Account Manager: Local Authenticatoin, Multiple User Account, Multi-Level Security, Password Recovery Procedures • Management Access: Management VLAN, Management ACL • SSL v2/v3, TLSv1 • Port Security: Dynamic Lock • Storm Control: Broadcast, Unknown Multicast, Unknown Unicast • Spanning Tree: BPDU Guard • Protected Port (Port Isolation) • Black Hole MAC • CPU Defence Engine • DoS Prevention • DHCP Snooping (with Option 82) • Dynamic ARP Inspection • IP Source Guard • IP/MAC/Port Binding (IMPB)
IPv6	• IPv6 Host: Auto Configuration, Static IPv6 Address and Prefix Length, Static IPv6 Default Gateway, IPv6 Neighbor Discovery (ND), IPv6 Duplicate Address Detection, ICMPv6 • IPv6 Application: HTTP/HTTPS, TELNET, SSH, SNMP, TFTP, Syslog, PING, DHCPv6
Management	• CLI: Console (3 Sessions), Telnet (RFC854) • WebUI: HTTP (Chinese/English) • SNMP v1, v2c, v3 • File Management: Firmware Upgrade/Backup, Dual Images, Configuration Download/Backup, Multiple Configurations • Upload/Download: TFTP (RFC783), HTTP, UART • Time Management: Local, SNTP • Port Management: Friendly Port Name (Port Description), Error Disabled Recovery • DHCP: Client, DHCP SNOOPING, Server, Relay, Option82 • Client DNS • EEE (802.3az) • Software Reset Button • RMON Management
Discovery	• IEEE 802.1AB Link Layer Discovery Protocol (LLDP) • ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)

FEATURES

Functionality	Description
Diagnostics	• 4 sessions Port-based (Many to One) Mirroring • Syslog (RFC3164): Local RAM, Local Flash, Remote Server • System Diagnostics: CPU Utilization, Memory Utilization, Port Utilization • Port Diagnostics: Cable Test, Fiber Module Status • Network Diagnostics: Ping Test, Traceroute • UDLD
MIB	• RFC1213 MIBII (System & Interface Groups) • RFC2819 RMON I (1, 2, 3, & 9 groups) • RFC1215 Generic Traps • RFC1493 Bridge • RFC2674 Bridge MIB Extensions • RFC2737 Entity • RFC3635 Ethernet-Like • RFC2863 Interface Group • SNMP-Community-MIB • SNMP v3
POE (S3508P/S3508PB)	• POE Port Config • POE Timer • Legacy PD detection • Max Power Management • Priority Management
RIP	• v1/v2
OSPF	• v1/v2

United Kingdom   Russia

Germany

United States

China

Singapore

Australia

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