

SG3801-16S8C4T

4x 10G SFP+ and 16x 1G SFP and 8x 1G Combo L3 Managed Switch

Highlights

- Support IEEE 802.1Q VLAN, QoS, ACL, SSL
- Support Spanning Tree, Multicast IPV6, SNMP
- Support 802.1X certification. Support ERPS ring network
- Support RSTP/MSTP spanning tree
- Supports Port Security, Port Monitoring, and Port Isolation
- Support Quaternary binding, ARP/IP/DoS protection



Specifications

Model	SG3801-16S8C4T
Hardware Specification	
Power Supply	AC 100~240V 50/60Hz
Interfaces	4x 10Gbps SFP+ ports 16x 1Gbps SFP ports 8x 1Gbps Combo ports 1x Console port
Network Protocol	IEEE 802.3 Ethernet MAC Protocol IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3z 1000BASE-X Gigabit Ethernet (Optical Fiber) IEEE 802.3ae 10G Ethernet IEEE 802.3x Flow Control IEEE 802.3az Energy-Efficient Ethernet IEEE 802.3ad Standard Method for Performing Link Aggregation IEEE 802.1ab LLDP/LLDP-MED (Link Layer Discovery Protocol) IEEE 802.1d Spanning Tree Protocol (STP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) IEEE 802.1Q VLAN Bridge Operation IEEE 802.1P (VLAN LABEL) IEEE 802.1X Client/Server Access Control and Authentication Protocol IEEE 802.3i
Network Medium	10BASE-T: UTP Category 3, 4, 5(≤100m) 100BASE-TX: UTP Category 5, 5e(≤100m) 1000BASE-T: UTP Category 5e, 6(≤100m) 1000BASE-SX: 62.5um MMF (min: 2m~275m) or 50um MMF (min: 2m~550m) 1000BASE-LX: 62.5um/50um MMF (min: 2m~550m) or 9um SMF (min: 2m~5000m) 10GBASE-SR: OM1/OM2/OM3 or above MMF (operating range: 2m ~ 300m) 10GBASE-LR: IEC's B1.1 and B1.3 SMF (min: 2m ~ 10000m)
LED Indicator	SFP fiber port indicators, Power input indicator, System running indicator
Dimensions	430mm x 290mm x 46mm
Working Environment	Working Temperature: 0~45°C / Working Humidity: 10%~90%, non-condensing Storage Temperature: -40~70°C / Storage Temperature: 5%~95%, non-condensing
Performance	
Switching Capacity	128Gbps
Packet Forwarding Rate	95.232Mpps
Packet Buffer Memory	12Mbit
MAC Address	16K
Jumbo Frame	12KBytes
VLANs	VLAN Range 1-4094, with a maximum active VLAN of 4K

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Software Function	
L3 Switching Features	Static Routing - IPv4/IPv6 Address Resolution Protocol (ARP)- Dynamic ARP
L2 Switching Features	16K MAC Address Table 12K Jumbo Frame Flow Control 802.3x (Full-duplex) Back-Pressure (Half-duplex) Spanning Tree IEEE 802.1D (STP) IEEE 802.1w (RSTP) IEEE 802.1s (MSTP)/16 instances Auto Edge Port BPDU Filtering ERPS Link Aggregation IEEE 802.3ad LACP Static Trunk Max 8 Group Max 8 Ports/Group Traffic Load Balancing
VLAN	Surveillance VLAN Voice VLAN 16 OUI Mode (Auto/Manual) QinQ (IEEE 802.1ad) - Basic GARP VLAN Registration Protocol (GVRP) 4094 Static VLAN/Port-based IEEE 802.1Q Tagged-based 8 groups Protocol-based 256 MAC-based
Multicast	Common 256 Multicast Groups Immediate Leave Static/Forbidden Router Port Static/Forbidden Forward Port 128 profiles Filtering Throttling IGMP Snooping IGMP v1/v2 IGMP v3 Basic (BISS) IGMP v2/v3 Querier MLD Snooping - MLD v1/v2 Multicast VLAN Registration (MVR) - IPv4
Quality of Service (QoS)	Trusted QoS/Priority 8 Queue Queue Scheduling WRR WFQ Strict Priority Hybrid(WRR+SP or WFQ+SP) Class of Service Port-based 802.1p IP TOS Precedence IP DSCP Rate Limit Port-based (Ingress/Egress)
Access Control List (ACL)	ACL Type-L2/L3/L4 512 MAC-based 512 IPv4-based 512 IPv6-based Access Rules - 1024

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Security	AAA Authentication 8 TACACS+ 8 RADIUS Authentication Manager IEEE 802.1X MAC Auth Web Auth Guest VLAN Port-based Host-based Account Manager Local Authentication 8 Multiple User Account Multi-Level Security (Manager/Operator) Password Recovery Procedures Management Access Management VLAN 256 Management ACL SSL / SSLv2 / SSLv3 TLSv1 WebUI HTTPS CLI - SSH v1/v2 Port Security - 256 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 256 IP Source Guard IP/MAC/Port Binding (IMPB) Dynamic VLAN Assignment
	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

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Management	CLI 3 sessions Console 3 sessions Telnet (RFC854) WebUI HTTPS 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 Line Management Console Telnet (RFC854) SSH v1/v2 DHCP - Client DNS - Client Software Reset Button IEEE (802.3az) 32 entries / type RMON Management
Discovery	IEEE 802.1AB Link Layer Discovery Protocol (LLDP) ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)
Diagnostics	UDLD Mirroring - 4 sessions port-based (Many to One) Syslog (RFC3164) Local RAM Local Flash 8 Remote Server System Diagnostics CPU Utilization Memory Utilization Port Utilization Technical Support Log Port Diagnostics Cable Test Fiber Module Status Network Diagnostics Ping Test Traceroute
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 SNMPv3-MIB