

## SG3801-48T6X

6x 10G SFP+ and 48x 1G Ethernet 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

<b>Model</b>	SG3801-48T6X
<b>Hardware Specification</b>	
<b>Power Supply</b>	AC 100~240V 50/60Hz
<b>Interfaces</b>	4x 10Gbps SFP+ ports 24x 1Gbps Ethernet ports 1x Console port
<b>Network Protocol</b>	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
<b>Network Medium</b>	10BASE-T: UTP Category 3, 4, 5(≤100m) 100BASE-TX: UTP Category 5, 5e(≤100m) 1000BASE-T: UTP Category 5e, 6(≤100m) 1000BASE-X: MMF, SMF
<b>LED Indicator</b>	SFP fiber port indicators, Power input indicator, System running indicator
<b>Dimensions</b>	430mm x 290mm x 46mm
<b>Working Environment</b>	Working Temperature: 0~45°C / Working Humidity: 10%~90%, non-condensing Storage Temperature: -40~70°C / Storage Temperature: 5%~95%, non-condensing
<b>Performance</b>	
<b>Switching Capacity</b>	216Gbps
<b>Packet Forwarding Rate</b>	160.704Mpps
<b>Packet Buffer Memory</b>	12Mbit
<b>MAC Address</b>	32K
<b>Jumbo Frame</b>	10KBytes
<b>VLANs</b>	VLAN Range 1-4094, with a maximum active VLAN of 4K

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<b>L3 Switching Features</b>	Static Routing - IPv4/IPv6 Address Resolution Protocol (ARP)- Dynamic ARP
<b>L2 Switching Features</b>	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
<b>VLAN</b>	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
<b>Multicast</b>	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
<b>Quality of Service (QoS)</b>	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)
<b>Access Control List (ACL)</b>	ACL Type-L2/L3/L4 512 MAC-based 512 IPv4-based 512 IPv6-based Access Rules - 1024

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<b>Security</b>	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 Defense Engine	
DoS Prevention	
DHCP Snooping (with Option 82)	
Dynamic ARP Inspection	
256 IP Source Guard	
IP/MAC/Port Binding (IMPB)	
Dynamic VLAN Assignment	
<b>IPv6</b>	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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<b>Management</b>	<ul style="list-style-type: none"> <li>CLI</li> <li>3 sessions Console</li> <li>3 sessions Telnet (RFC854)</li> <li>WebUI</li> <li>HTTPS</li> <li>SNMP(v1,v2c,v3)</li> <li>File Management</li> <li>Firmware Upgrade/Backup</li> <li>Dual Images</li> <li>Configuration Download/Backup</li> <li>Multiple Configurations</li> <li>Upload/Download</li> <li>TFTP (RFC783)</li> <li>HTTP</li> <li>UART</li> <li>Time Management</li> <li>Local</li> <li>Sntp</li> <li>Port Management</li> <li>Friendly Port Name (Port Description)</li> <li>Error Disabled Recovery</li> <li>Line Management</li> <li>Console</li> <li>Telnet (RFC854)</li> <li>SSH v1/v2</li> <li>DHCP - Client</li> <li>DNS - Client</li> <li>Software Reset Button</li> <li>IEEE (802.3az)</li> <li>32 entries / type RMON Management</li> </ul>		
	<ul style="list-style-type: none"> <li>IEEE 802.1AB Link Layer Discovery Protocol (LLDP)</li> <li>ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)</li> </ul>		
	<b>Diagnostics</b>	<ul style="list-style-type: none"> <li>UDLD</li> <li>Mirroring - 4 sessions port-based (Many to One)</li> <li>Syslog (RFC3164)</li> <li>Local RAM</li> <li>Local Flash</li> <li>8 Remote Server</li> <li>System Diagnostics</li> <li>CPU Utilization</li> <li>Memory Utilization</li> <li>Port Utilization</li> <li>Technical Support Log</li> <li>Port Diagnostics</li> <li>Cable Test</li> <li>Fiber Module Status</li> <li>Network Diagnostics</li> <li>Ping Test</li> <li>Traceroute</li> </ul>	
		<ul style="list-style-type: none"> <li>RFC1213 MIBII (System &amp; Interface groups)</li> <li>RFC2819 RMON I (1,2,3 &amp; 9 groups)</li> <li>RFC1215 Generic Traps</li> <li>RFC1493 Bridge</li> <li>RFC2674 Bridge MIB Extensions</li> <li>RFC2737 Entity</li> <li>RFC3635 Ethernet-Like</li> <li>RFC2863 Interface Group</li> <li>SNMP-Community-MIB</li> <li>SNMPv3-MIB</li> </ul>	
		<b>MIB</b>	