

Overview

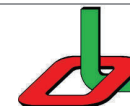
TG-NET S5300 series switches are L2+ 10G Switches based on new generation of high-performance hardware and TG-NET Operating System Platform (TOS). It provides a large capacity, high-density GE interfaces, and 10GE uplink interfaces. With extensive service features and IPv6 forwarding capabilities, the S5300 series switches is applicable to various scenarios. For example, it can be used as an access or aggregation switch on campus networks or an access switch in data centers. The S5300 series switches integrates many advanced technologies in terms of reliability, security, and energy saving. It employs simple and convenient means of installation and maintenance to reduce customers' OAM cost and help enterprise customers build a next-generation IT network.

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Quality Link Connections



Product Appearance

	<p>S5300-28G-4TF 24*10/100/1000 Base-T ports 4 * 1000 Base-X SFP combo ports 1-4*x10GE SFP+ subcard 1 * Console port</p>		<p>S5300-32F-4TF 24*1000 Base-X SFP ports 8*10/100/1000 Base-T combo ports 1-4*x10GE SFP+ subcard 1* Console port</p>
	<p>S5300-52G-4TF 48*10/100/1000 Base-T ports 4 * 1000 Base-X SFP combo ports 1-4*x10GE SFP+ subcard 1 * Console port</p>		<p>S5300-52F-4TF 48* 1000 Base-X SFP ports 4*10/100/1000 Base-T combo ports 1-4*x10GE SFP+ subcard 1 * Console port</p>

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Quality Link Connections



Product Features and highlights

■ Various Port Types and Flexible Port Expansion

The S5300 supports 2*10G subcard and each contains one or two 10G SFP+ ports. The users can flexibly adopt 1~4*10G ports expansion. The series also provides multiple gigabit ports (24 or 48 Base-T ports and Base-X ports), it can be used as an access or aggregation switch on campus networks or an access switch in data centers.

■ Comprehensive QoS policies and security mechanisms

The S5300 supports strict ARP learning, which prevents ARP spoofing attacks that exhaust ARP entries, The S5300 also provides IP source guard to prevent DoS attacks caused by MAC address spoofing, IP address spoofing, and MAC/IP spoofing.

The S5300 supports DHCP snooping, which generates user binding entries based on users' access interfaces, MAC addresses, IP addresses, IP address leases, and VLAN IDs. DHCP snooping discards invalid packets that do not match any binding entries, such as ARP spoofing packets and IP spoofing packets. This prevents hackers from using ARP packets to initiate man-in-the-middle attacks on campus networks. The interface connected to a DHCP server can be configured as a trusted interface to protect the system against bogus DHCP server attacks.

■ Comprehensive reliability mechanisms

Besides STP, RSTP, and MSTP, the S5300 supports enhanced Ethernet reliability technologies such as Ethernet Ring Protection Switching (ERPS), also referred to as G.8032. As the latest ring network protocol, ERPS was developed based on traditional Ethernet MAC and bridging functions and uses mature Ethernet OAM function and a ring automatic protection switching (R-APS) mechanism to implement millisecond-level protection switching. ERPS supports various services and allows flexible networking, helping customers build a network with lower OPEX and CAPEX.

■ Powerful support for services

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The S5300 supports IGMP v1/v2/v3 snooping, IGMP filter, IGMP fast leave, and IGMP proxy. The S5300 supports wire-speed replication of multicast packets between VLANs, multicast load balancing among member interfaces of a trunk, and controllable multicast, meeting requirements for IPTV and other multicast services.

■ **Easy deployment and maintenance free**

Supports SNMP v1/v2/v3 and provides flexible methods for managing devices. Users can manage the S5300 using the CLI and Web NMS.

Supports SSH2.0 and other encryption, which makes management much more secured.

Supports LLDP protocol for simpler management.

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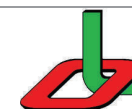
Product Specifications

Items	S5300-28G-4TF	S5300-32F-4TF	S5300-52G-4TF	S5300-52F-4TF
Fixed port	24*10/100/1000 Base-T ports	24*1000 Base-X SFP ports	48*10/100/1000 Base-T ports	48*1000 Base-X SFP ports
	4*1000 Base-X SFP combo ports	8*10/100/1000 Base-T combo ports	4*1000 Base-X SFP combo ports	4*10/100/1000 Base-T combo ports
	1*Console port			
Extended slot	2* 10G extended slot (rear panel)			
10G subcard	1*10G SFP+ subcard			
	2*10G SFP+ subcard			
Switching Capacity	240Gbps		280Gbps	
Packet Forwarding Capacity	96Mpps		131Mpps	
Operating environment	Operating temperature: 0°C–50°C			
	Relative humidity: 5%–95% (non-condensing)			
Dimensions	440(L)×285(W)×44.5(H)mm			
Weight	<4Kg			
Input Voltage	AC:110~240V/50~60Hz			
Power Consumption	<60W		<60W	

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Service Features

Item	S5300-28G-4TF	S5300-32F-4TF	S5300-52G-4TF	S5300-52F-4TF
Standards	IEEE 802.3ad, Link Aggregation			
	IEEE 802.3,10BASE-T			
	IEEE 802.3u,100 BASE-TX			
	IEEE 802.3ab,1000 BASE-T			
	IEEE 802.3z,1000 BASE-X			
	IEEE 802.3ae, 10Gb/s Ethernet			
	IEEE 802.3x, Ethernet flow control			
	IEEE 802.1AB-2005,LLDP(Link Layer Discovery Protocol)			
	IEEE 802.1d, Spanning Tree Protocol			
	IEEE 802.1w, Rapid Spanning Tree Protocol			
	IEEE 802.1s,Multiple Spanning Tree Protocol			
	IEEE 802.1q, VLAN			
	IEEE 802.1p,QoS			
MAC Address	32K MAC addresses			
	MAC address learning and aging			
VLAN	4K VLANs			
	Port-based VLANs			
	VLAN assignment based on MAC addresses, protocols, and IP subnets			
Spanning Tree	STP(Spanning Tree Protocol)			
	RSTP(Rapid Spanning Tree Protocol)			
	MSTP(Multiple Spanning Tree Protocol)			
Link Aggregation	Max 14 aggregation groups, each supports 16 ports		Max 26 aggregation groups,each supports 8 ports	
	Static aggregation and dynamic aggregation			
Port Mirroring	Many-to-one port mirroring			
Reliability	ERPS(G.8032)			

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Flow Rate Limitation	Rate limiting on packets sent and received by an interface
IP Routing	Static Routing
Multicast	IGMP v1/v2/v3 snooping and IGMP fast leave
	MVR (Multicast VLAN Registration)
DHCP	DHCP Server/Client
	DHCP Snooping
	DHCP Relay
Security	Binding of the IP address, MAC address, interface
	Port isolation
	802.1x authentication
	AAA authentication, RADIUS authentication
	SSH v2.0
	User privilege management and password protection
Management and maintenance	SNMP V1/V2c/V3 and RMON
	Remote configuration and maintenance using Telnet
	Web NMS
	System logs and alarms of different levels

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Ordering Information

Items	Product Description
S5300-28G-4TF	24*10/100/1000 Base-T ports;4 *1000 Base-X SFP combo ports;2* 10G extended slot (Max 4 * 10G ports);
S5300-32F-4TF	24 *1000 Base-X SFP ports;8*10/100/1000 Base-T combo ports;2* 10G extended slot (Max 4 * 10G ports);
S5300-52G-4TF	48*10/100/1000 Base-T ports;4 *1000 Base-X SFP combo ports;2* 10G extended slot (Max 4 * 10G ports);
S5300-52F-4TF	48 *1000 Base-X SFP ports;4*10/100/1000 Base-T combo ports;2* 10G extended slot (Max 4 * 10G ports);
10G subcard	Subcard Description
S5300-1SFP+	1*10G SFP+ subcard
S5300-2SFP+	2*10G SFP+ subcard
Optical module	Module Description
SFP+-10GE-SX-MM850	10G BASE-X SFP+ optical transceiver-850nm-0.3km-LC
SFP+-10GE-LX-SM1310	10G BASE-X SFP+ optical transceiver-1310nm-10km-LC
SFP-GE-SX-MM850	1000 Base-X SFP optical transceiver-850nm-0.55km-LC
SFP-GE-LX-SM1310	1000 Base-X SFP optical transceiver-1310nm-20km-LC
SFP+-10GE-CU24-3M	10G SFP+ Copper Twinax cable 3 Meters, passive
SFP+-10GE-AOC-5M	10G SFP+ Active Optical Cable-5M
Optical fiber armored -LC/PC-LC/PC-GE-MM-3m	1000 Base-X SFP Optical fiber armored -850nm-3m-LC/PC-LC/PC
Optical fiber armored -LC/PC-LC/PC-OM3-10GE-MM-3m	10G BASE-X SFP+ Optical fiber armored -850nm-3m-LC/PC-LC/PC

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