

Overview

TG-NET S5500 series switches are the next-generation enhanced IPv6 Layer 3 Core Switches. They adopt modular design, support up to four 10GB ports, can achieve flexible port scalability. The switches support IPv4/IPv6 dual stack and line speed forwarding, which allow users to prepare for upcoming IPv6 era with ease. With cutting-edge hardware capabilities and rich service features, S5500 series can be used in multiple network environments like campus LAN core and aggregation, the edge of Metropolitan Area Networks(MANs) and Data Centers(DCs).

S5500 series switches support Simple Network Management Protocol(SNMP), can get easy configuration and management by Web-based interface. The switches integrate multiple services such as IPv6, comprehensive network security, high reliability CPU protection, ring network protection and carrier-class power supply, ensuring maximum uptime and reduce user's cost.

The series consist of four models: S5500-28G-4TF、S5500-28F-4TF、S5500-52G-4TF、S5500-52F-4TF.

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Hardware Features

 <p>S5500-28G-4TF 24*10/100/1000 Base-T ports; 4* 1000 Base-X SFP combo ports; 4*10GB SFP+ ports(work with expansion module); 1 * Console port; 1*RPS power supply backup port;</p>	 <p>S5500-28F-4TF 24* 1000 Base-X SFP ports; 4*10/100/1000 Base-T combo ports; 4*10GB SFP+ ports(work with expansion module); 1 * Console port; 1*RPS power supply backup port;</p>
 <p>S5500-52G-4TF 48*10/100/1000 Base-T ports; 4* 1000 Base-X SFP combo ports; 4*10GB SFP+ ports(work with expansion module); 1 * Console port; 1*RPS power supply backup port;</p>	 <p>S5500-52F-4TF 48* 1000 Base-X SFP ports; 4*10/100/1000 Base-T combo ports; 4*10GB SFP+ ports(work with expansion module) ; 1 * Console port; 1*RPS power supply backup port;</p>

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Characteristics

■ Various Port Types and Flexible Port Expansion

Support 2 pieces of 10G expansion cards and each has one or two 10G SFP+ ports. Users can flexibly choose to adopt 1~4 10G ports according to different network requirements. The series also provides multiple gigabit ports(Base-T ports and Base-X ports), can well satisfy the demand of large-scale aggregation network or small-and-medium size core networks.

■ Comprehensive Security Control Policies

Support port-based IP +MAC address authentication, MAC address filtering, 802.1x authentication, remote Radius and TACACS+ authentication. They also support users classification management and password protection, support IP ACL and MAC ACL which helps efficiently defend against ARP attacks and viruses. Besides, the switch can provide comprehensive storm control function by suppress broadcast, multicast, DLF flooding and ICMP flooding. The comprehensive secure controls can efficiently guarantee the real-time effectiveness of all security policies.

■ Enhanced Reliability Protection Mechanism

Support CPU packed classification and rate restriction by CPU protection policies, which can prevent against illegal Packet attacks to CPU and reduce the resource consumption.

Support Rapid Spanning Tree Protocol(RSTP), provide rapid convergence and improved fault-tolerant capacity. The network stable operation and load balance are well guaranteed, also improved the reasonable use network channels and redundant link;

Support Ethernet Ring Protection Switching(ERPS), can provide millisecond-level service rearrangement function, keep the continuity of services. With the simple and reliable protocols, high-performance rearrangement function, easy-to-do maintenance and flexible topology, the users can easily manage and deploy the network.

Adopt Carrier-class switching power supply also supports RPS power supply hot backup, which supports functions to prevent against lightning, overpressure and surging. The device can work normally in bad natural wether and instable voltage environment, suitable for 100~265V voltage.

■ Convenient and Quick Management and Maintenance

Adopt simple visual Web-based interface, which helps users to handle various functions easily and conveniently.

Support Simple Network Management Protocol (SNMP) that the devices are convenient to configure and manage. Small and medium-sized enterprise customers can centralized manage the switch easily.

Support CLI command line management and remote Telnet management, can well satisfy the management requirement from network administrators.

Support SSH2.0 and other encryption, provides safer management.

Support PDP and LLDP protocol, enables a easier management.

Support SNTP time protocol, can automatically synchronize with the Internet time server.

Provide high stacking capacity. Multiple switches in a stack system are virtualized into one logical device, making it possible to build a scalable and easy-to-manage data center network platform.

■ Various IPv6 Features

The hardware of S5500 series 10G switch support IPv4/IPv6 dual stack, support a variety of IPv4 and IPv6 Layer 3 routing protocols, multicast protocols and policy routing mechanism, can smoothly upgrade from an IPv4 network to an IPv6 network.

This Ethernet Switch have passed the most authoritative international authentication, the IPv6 Ready gold authentication. And the series has passed the IPv6 access network test by Ministry of Information Industry. The switch can be used on single IPv4 or single IPv6 networks, or the the combined networks of IPv4 and IPv6. The flexible network deployment can well satisfy the transition time from IPv4 network to IPv6 network.

Product Specifications

Item	S5500-28G-4TF	S5500-28F-4TF	S5500-52G-4TF	S5500-52F-4TF
Service 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 combo SFP	4*10/100/1000 combo Base-T	4*1000 Base-X combo SFP	4*10/100/1000 combo Base-T
Management Port	1*Console port			
Expansion Slot	1* 10G expansion slot (rear panel)		2* 10G expansion slot (rear panel)	
10G Expansion Module	One-port 10G SFP+ module		One-port 10G SFP+ module	
	Dual-port 10G SFP+ module		Dual-port 10G SFP+ module	
	Three-port 10G SFP+ module			
	Four-port 10G SFP+ module			
Switching Capacity	240Gbps		280Gbps	
Packet Forwarding Capacity	96Mpps		131Mpps	
Operation Temperature	-20~50°C			
Storage Temperature	-40~70°C			
Operation Humidity	10%~90%(non-condensing)			
Storage Humidity	5%~95%(non-condensing)			
Dimensions	442 (L)×316(W)×44.5(H)mm		442 (L)×374(W)×44.5(H)mm	
Weight	<4Kg			
Input Voltage(AC)	AC: 90~264V/50~60Hz, supports RPS power supply hot backup			
Power Consumption	<80W			

Service Features

Item	S5500-28G-4TF	S5500-28F-4TF	S5500-52G-4TF	S5500-52F-4TF
Standards & Protocols	IEEE 802.3ad, Static or Dynamic Link Aggregation			
	IEEE 802.3u, 100 BASE-TX			
	IEEE 802.3ab, 1000 BASE-T			
	IEEE 802.3z, 1000 BASE-X			
	IEEE 802.3ae, 10G Base Ethernet			
	IEEE 802.3x, Full-Duplex Flow Control			
	IEEE 802.1AB-2005, LLDP Protocol			
	IEEE 802.1d, STP (Spanning Tree Protocol)			
	IEEE 802.1w, Rapid Spanning Tree Protocol			
	IEEE 802.1q, VLAN			
MAC Address	8K MAC addresses			
	Adding of dynamic/static MAC address			
VLAN	4096 VLANs			
	Port-based VLANs			
	VLANs based on IEEE 802.1q			
	Super Vlan;			
	Private Vlan;			
	GVRP dynamic VLAN configuration;			
Spanning Tree	Flexible QinQ;			
	Spanning Tree Protocol			
	Rapid Spanning Tree Protocol (RSTP)			

	Multiple Spanning Tree Protocol (MSTP)
Port Aggregation	Maximum 32 aggregation groups, each supports 8 ports
	Static aggregation and dynamic aggregation
Port Mirroring	Many-to-one port mirroring (that is, multiple mirroring ports, and one monitor port)
Ring Protection	Supports Industrial-level Ethernet Ring Protection Switching(ERPS)/EAPS
Traffic Control	Back-pressure traffic control for Half-Duplex mode
	IEEE 802.3x traffic control for Full-Duplex mode
Flow Rate Limitation	Port-based ingress or egress rate limitation
IP Routing	Static routing
	OSPF
	Policy Routing
	Routing Policies
IPv6 Routing	IPv6 static routing
	Manual tunnels
	6 to 4 tunnels
Multicast	IGMP Snooping;
	Multicast VLAN;
	IGMP Proxy;
	PIM-SM、PIM-DM、PIM-SSM;
	MLD v1/MLDv2 snooping;
DHCP	DHCP Client;
	DHCP Snooping;
	DHCP Relay;
	DHCP Server;
Storm Suppression	Suppress broadcast, multicast and unicast

Security	Standard IP ACL (IP-based hardware ACL)
	Extended IP ACL (Hardware ACL based on the IP address and TCP/UDP port number)
	IEEE 802.1x port authentication
	Radius authentication
	TACACS+ authentication
QOS	Support the binding of IP + MAC + port
	SP (Strict Priority)
	WFQ (Weighted Fair Queuing)
	WRR (Weighted Round Robin)
	Random Early Detect (RED)
	Head Of Line
	Best-Effort Service
	First come first served
	802.1p(Port Queuing Priority)
	Cos/Tos, QOS
Configuration & Management	Differentiated Service
	Uploading or downloading of the configuration data;
	Configuration via the console port;
	WEB-based reset to factory defaults;
	Ping
	System logs
	Stacking
	WEB-based interface management
CLI interface management	

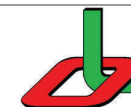
	Telnet remote management
	Support SSH 2.0
	SNMP Management
	RMON
	PDP
	LLDP
	SNTP server

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Ordering Information

Item	Product information
S5500-28G-4TF	24*10/100/1000 Base-T ports;4 *1000 Base-X SFP combo ports;1*10G expansion slots(Maximum 4 * 10G ports);1*Console port;With RPS power supply backup port;
S5500-28F-4TF	24 *1000 Base-X SFP ports;4*10/100/1000 Base-T combo ports;1*10G expansion slots(Maximum 4 * 10G ports);1*Console port;With RPS power supply backup port;
S5500-52G-4TF	48*10/100/1000 Base-T ports;4 *1000 Base-X SFP combo ports;2*10G expansion slots(Maximum 4 * 10G ports);1*Console port;With RPS power supply backup port;
S5500-52F-4TF	48 *1000 Base-X SFP ports;4*10/100/1000 Base-T combo ports;2*10G expansion slots(Maximum 4 * 10G ports);1*Console port;With RPS power supply backup port;
10G Expansion slot	Expansion Card Information
S5500-1SFP+	One-port 10G SFP+ expansion card (work with SFP+ Optic Module)
S5500-2SFP+	Dual-port 10G SFP+ expansion card (work with SFP+ Optic Module)
S5500-3SFP+	Three-port 10G SFP+ expansion card (work with SFP+ Optic Module)
S5500-4SFP+	Four-port 10G SFP+ expansion card (work with SFP+ Optic Module)
Fiber Optic Module	Module Information
SFP+-10GE-SX-MM850	10G SFP+ Multimode Module-(850nm,0.3km,LC)
SFP+-10GE-LX-SM1310	10G SFP+ Single Mode Module-(1310nm,10km,LC)
SFP-GE-SX-MM850	Gigabit SFP Multimode Module-(850nm,0.55km,LC)
SFP-GE-LX-SM1310	Gigabit SFP Single Mode Module-(1310nm,20km,LC)
SFP-GE-LX-SM1550	Gigabit SFP Single Mode Module-(1550nm,80km,LC)

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