

S5500E Series
L3 10G Routing Switches

Datasheet



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Overview

The S5500E series switches are next-generation L3 10G box switches based on high-performance hardware and TG-NET Operating System Platform (TGOS). The S5500E can work as an Access switch, Aggregation Switch or Core Switch.

The S5500E has industry-leading performance and provides up to 4 line-speed 10GE ports.

Product Appearance

	S5500E-24G-4TF 24*10/100/1000 Base-T ports 4* 1G SFP/10 GE SFP+ ports 1 * Console port
	S5500E-48G-4TF 48*10/100/1000 Base-T ports 4* 1G SFP/10 GE SFP+ ports 1 * Console port

Product Features and highlights

■ Various Port Types and Flexible Port Expansion

The S5500E comes with fixed 4*10G ports. The series also provides multiple gigabit ports (24 or 48 Base-T ports) it can be used as an access or aggregation switch on campus networks or an access switch in data centers.

■ Comprehensive Security Control Policies

Support address authentication based on IP +MAC addresses, 802.1x authentication, radius and TACACS+ based on user interfaces, and also support IP ACL, MAC ACL, VLAN ACL and L3 / L4 based ACL, can 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.

■ Convenient and Quick Management and Maintenance

Adopt simple visual Web-based interface (http / https), 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 telnet, suitable for professional network administrators.

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

Support PDP/LLDP protocol for simpler management.

Support NTP protocol for time synchronization automatically.

Support resetting to factory defaults, which makes the maintenance more easily.

Product Specifications

Items	S5500E-24G-4TF	S5500E-48G-4TF
Fixed port	24*10/100/1000 Base-T ports	48*10/100/1000 Base-T ports
	4* 10GE SFP+ ports	
	1*Console port	
Switching Capacity	128Gbps	176Gbps
Packet Forwarding Capacity	96Mpps	131Mpps
Operating environment	Operating temperature: 0℃-50℃	
	Relative humidity: 5%-95% (non-condensing)	
Dimensions	440 (L)×285(W)×44.5(H)mm	
Weight	<5Kg	
Input Voltage	AC:110~240V/50~60Hz, Optional 2 Modular Power Supply	
Power Consumption	<50W	<70W

Service Features

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	
MAC Address	16K MAC addresses	
	MAC address learning and aging	
Traffic Control	Back-pressure traffic control for Half-Duplex mode	
	IEEE 802.3x traffic control for Full-Duplex mode	
VLAN	4K VLANs	
	Port-based VLANs	
Spanning Tree	STP(Spanning Tree Protocol)	
	RSTP(Rapid Spanning Tree Protocol)	
	MSTP(Multiple Spanning Tree Protocol)	
Link Aggregation	Max 14 aggregation groups each supports 8 ports	Max 26 aggregation groups each supports 8 ports
Port Mirroring	Many-to-one port mirroring , 4 groups	
Ring Protection	Supports Industrial-level Ethernet Ring Protection Switching ERPS	
IP Routing	Static Routing	
	OSPF	
	VRRP	
Multicast	IGMP snooping	
	IGMP Proxy	
Storm Suppression	Suppress broadcast, multicast and unicast	
DHCP	DHCP Server	
	DHCP Snooping	

	DHCP Relay
QoS	SP (Strict Priority)
	WFQ (Weighted Fair Queuing)
	802.1p
Security	Binding of the IP address, MAC address, port;
	Port isolation
	IP ACL, MAC ACL on hardware
	802.1x authentication
	IP Source Guard
	ARP Detection
Management and maintenance	SNMP V1/V2c
	Remote configuration and maintenance via Telnet
	Web
	CLI

Ordering Information

Items	Product Description
S5500E-24G-4TF	24*10/100/1000 Base-T ports; 4 *10G SFP+ ports
S5500E-48G-4TF	48*10/100/1000 Base-T ports; 4 * 10G SFP+ ports
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