

Datasheet



Shenzhen TG-NET Botone Technology Co., Ltd.

# **TG-NET**

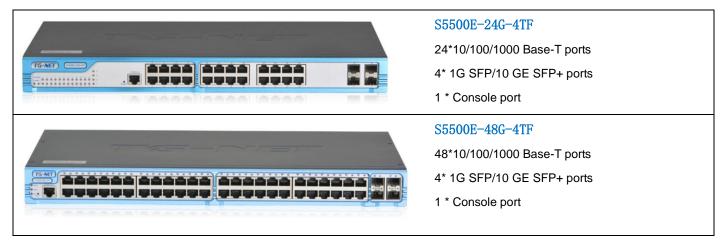
## **Overview**

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**



## 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.

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### **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	06Mppg	131Mpps
Capacity	96Mpps	
Operating environment	Operating temperature: 0°C-50°C	
	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**

IEEE 802.3d, Link Aggregation           IEEE 802.3, 10BASE-T           IEEE 802.3u, 100 BASE-TX           IEE 802.3u, 100 Free Protocol           Marrey Free Protocol           IEI Pouting Tee Protocol           IEI Pouting Tee Protocol           IEI Pouting IEI Pouting IEI Pouting IEI Pouting IEI Pouting IEI Pouti				
Standards         IEEE 802.3u,100 BASE-TX           IEEE 802.3ab,1000 BASE-T           IEEE 802.3ac,1000 BASE-X           IEEE 802.3ac,1000 BASE-X           IEEE 802.3ac, 100b/s Ethernet           MAC Addresse           MAC addresses           MAC addresse learning and aging           Back-pressure traffic control for Half-Duplex mode           IEEE 802.3x traffic control for Full-Duplex mode           IEEE 802.3x traffic control for Full-Duplex mode           VLNN           4K VLANs           Port-based VLANs           Port-based VLANs           RSTP(Spanning Tree Protocol)           MSTP(Multiple Spanning Tree Protocol)           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 Protocol         Static Routing           OSPF         VRP           VIRP         IGMP Proxy           IGMP Proxy	Standards	IEEE 802.3ad, Link Aggregation		
Standards       IEEE 802.3ab,1000 BASE-T         IEEE 802.3ac,1000 BASE-X         IEEE 802.3ac, 100b/s Ethernet         MAC Address         MAC addresses         MAC address learning and aging         Back-pressure traffic control for Half-Duplex mode         IEEE 802.3x traffic control for Full-Duplex mode         IEEE 802.3x traffic control for Full-Duplex mode         VLAN       4K VLANs         Port-based VLANs         Port-based VLANs         StP(Spanning Tree Protocol)         MSTP(Rapid Spanning Tree Protocol)         MSTP(Multiple Spanning Tree Protocol)         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 Swit-Free         IPRouting       OSPF         VRP       VRP         Multicast       IGMP snooping         IGMP Proxy       IGMP snooping         IGMP Proxy       Supports Industrial-level and unicast         DHCP Server       DHCP Server		IEEE 802.3,10BASE-T		
IEEE 802.3ab,1000 BASE-T         IEEE 802.3z,1000 BASE-X         IEEE 802.3ae, 10Gb/s Ethernet         MAC Addresse         MAC Addresses         MAC Addresses         MAC addresses         Mack Addresse         Back-pressure traffic control for Half-Duplex mode         IEEE 802.3x traffic control for Full-Duplex mode         VLAN         4K VLANs         Port-based VLANs         STP(Spanning Tree Protocol)         RSTP( Rapid Spanning Tree Protocol)         MSTP(Multiple Spanning Tree Protocol)         Mary -one port mirroring , 4 groups         Ring Protection       Supports Industrial-level Ethernet Ring Protection Switching ERPS         IPRouting       Supports Industrial-level Ethernet Ring Protection Switching ERPS         IRing Protection       Supports Industrial-level Ethernet Ring Protection Switching ERPS         Multicast       GMP snooping         IGMP snooping       IGMP snooping         IGMP Proxy       IGMP snooping         Supports broaccast, multicast and unicast       UHCP Server		IEEE 802.3u,100 BASE-TX		
IEEE 802.3ae, 10Gb/s Ethernet         IEEE 802.3ae, 10Gb/s Ethernet         MAC Addresses         MAC Address       MAC addresses         MAC Address learning and aging       Back-pressure traffic control for Half-Duplex mode         IEEE 802.3x traffic control for Half-Duplex mode         IEEE 802.3x traffic control for Full-Duplex mode       IEEE 802.3x traffic control for Full-Duplex mode         VLAN         VLAN       Port-based VLANs         STP(Spanning Tree Protocol)       STP(Rapid Spanning Tree Protocol)         MSTP(Multiple Spanning Tree Protocol)       MSTP(Multiple Spanning Tree Protocol)         Max 14 aggregation groups each supports 8 ports       Max 26 aggregation groups each supports 8 ports         Port Mirroring       May-to-one port mirroring , 4 groups         Ring Protection       Supports Industrial-level Ethernet Ring Protection Switching ERPS         Ring Protection       Static Routing         OSPF       VRRP         VRRP       IGMP snooping         IgMP Proxy       IGMP Proxy         Storm Suppression       Suppress broadcast, multicast and unicast         DHCP Server       DHCP Server		IEEE 802.3ab,1000 BASE-T		
MAC Address         16K MAC addresses           MAC address learning and aging         mAC address learning and aging           Traffic Control         Back-pressure traffic control for Half-Duplex mode           IEEE 802.3x traffic control for Full-Duplex mode         IEEE 802.3x traffic control for Full-Duplex mode           VLAN         K VLANs           Port-based VLANs         Fort-based VLANs           STP(Spanning Tree Protocol)         STP(Rapid Spanning Tree Protocol)           MSTP(Multiple Spanning Tree Protocol)         MSTP(Multiple Spanning Tree Protocol)           Mitroring         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         Max 26 aggregation groups each supports 8 ports           IP Routing         Static Routing         Static Routing         VRRP           Multicast         IGMP snooping         IGMP proxy         IGMP proxy           Storm Suppression         Suppress broadcast, multicast and unicast         DHCP Server		IEEE 802.3z,1000 BASE-X		
MAC Address         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)         Max 26 aggregation groups each supports 8 ports           Mirroring         May-to-one port mirroring , 4 groups           Ring Protection         Supports Industrial-level Ethernet Ring Protection Switching ERPS           Static Routing         OSPF           VRRP         VRRP           Multicast         IGMP snooping           IGMP Proxy         Suppress broadcast, multicast and unicast           DHCP         DHCP Server		IEEE 802.3ae, 10Gb/s Ethernet		
MAC address learning and aging Back-pressure traffic control for Half-Duplex mode IEEE 802.3x traffic control for Full-Duplex mode IEEE 802.3x traffic control for Full-Duplex mode AK VLANs VLAN 4K VLANs Port-based VLANs Fort-based VLANs STP(Spanning Tree Protocol) RSTP(Rapid Spanning Tree Protocol) KSTP(Multiple Spanning Tree Protocol) MSTP(Multiple Spanning Tree Protocol) Kat 4 aggregation groups each supports 8 ports Nat 4 aggregation groups each supports 8 ports Nat 4 aggregation groups each supports 8 ports As 14 aggregation groups each supports 8 ports Nat 4 aggregation groups each supports 8 ports Kate Routing Nat 4 aggregation groups each supports 8 ports Kate Routing National Supports Industrial-level Ethernet Ring Protection Switcher ERPS Static Routing National Supports Industrial-level Ethernet Ring Protection Switcher ERPS National Supports Industrial-level Ethernet Ring Protection Switcher ERPS Static Routing National Supports Industrial-level Ethernet Ring Protection Switcher ERPS Static Routing National Supports Industrial-level Ethernet Ring Protection Switcher ERPS Static Routing National Supports Industrial-level Ethernet Ring Protection Switcher ERPS Static Routing National Supports Industrial-level Ethernet Ring Protection Switcher ERPS Static Routing National Supports Industrial-level Ethernet Ring Protection Switcher ERPS Static Routing Stati	MAC Address	16K MAC addresses		
Traffic Control       IEEE 802.3x traffic control for Full-Duplex mode         VLAN       4K VLANs         Port-based VLANs		MAC address learning and aging		
IEEE 802.3x traffic control for Full-Duplex mode 4K VLANs Port-based VLANs STP(Spanning Tree Protocol) STP(Spanning Tree Protocol) KTP(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 Static Routing IP Routing Static Routing IP Routing IGMP Snooping IGMP Snooping IGMP Proxy DHCP Server	Traffic Control	Back-pressure traffic control for Half-Duplex mode		
VLAN         Port-based VLANs           STP(Spanning Tree Protocol)         STP(Spanning Tree Protocol)           RSTP( Rapid Spanning Tree Protocol)         MSTP(Multiple Spanning Tree Protocol)           MSTP(Multiple Spanning Tree Protocol)         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           Static Routing         OSPF           VRRP         VRRP           IGMP snooping         IGMP Proxy           Storm Suppression         Suppress broadcast, multicast and unicast           DHCP Server         DHCP Server		IEEE 802.3x traffic control for Full-Duplex mode		
Port-based VLANs           STP(Spanning Tree Protocol)           RSTP(Rapid Spanning Tree Protocol)           MSTP(Multiple Spanning Tree Protocol)           Link Aggregation           Max 14 aggregation groups each supports 8 ports           Many-to-one port mirroring , 4 groups           Ring Protection           Supports Industrial-level Ethernet Ring Protection Switching ERPS           Static Routing           OSPF           VRRP           IGMP snooping           IGMP Proxy           Storm Suppression           Suppress broadcast, multicast and unicast           DHCP	VLAN	4K VLANs		
Spanning Tree       RSTP( Rapid Spanning Tree Protocol)         MSTP(Multiple Spanning Tree Protocol)         Link Aggregation       Max 14 aggregation groups each supports 8 ports         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         Static Routing       OSPF         VRRP       OSPF         Nulticast       IGMP snooping         IGMP Proxy       IGMP Proxy         Storm Suppression       Suppress broadcast, multicast and unicast         DHCP       DHCP Server		Port-based VLANs		
MSTP(Multiple Spanning Tree Protocol)         Link Aggregation       Max 14 aggregation groups each supports 8 ports         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         Static Routing       OSPF         VRRP       IGMP snooping         IGMP Proxy       IGMP Proxy         Storm Suppression       Suppress broadcast, multicast and unicast         DHCP       DHCP Server	Spanning Tree	STP(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         IGMP snooping       IGMP snooping         IGMP Proxy       Suppress broadcast, multicast and unicast         DHCP       DHCP Server		RSTP( Rapid Spanning Tree Protocol)		
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         IIGMP snooping       IGMP Proxy         Storm Suppression       Suppress broadcast, multicast and unicast         DHCP       DHCP Server		MSTP(Multiple Spanning Tree Protocol)		
Ring Protection       Supports Industrial-level Ethernet Ring Protection Switching ERPS         IP Routing       Static Routing         OSPF       VRRP         Multicast       IGMP snooping         IGMP Proxy       IGMP Proxy         Storm Suppression       Suppress broadcast, multicast and unicast         DHCP       DHCP Server	Link Aggregation	Max 14 aggregation groups each supports 8 ports	Max 26 aggregation groups each supports 8 ports	
IP Routing       Static Routing         OSPF       VRRP         IGMP snooping       IGMP Proxy         Storm Suppression       Suppress broadcast, multicast and unicast         DHCP       DHCP Server	Port Mirroring	Many-to-one port mirroring , 4 groups		
IP Routing OSPF VRRP Multicast IGMP snooping IGMP Proxy Storm Suppression Suppress broadcast, multicast and unicast DHCP	Ring Protection	Supports Industrial-level Ethernet Ring Protection Switching ERPS		
Nulticast     IGMP snooping       IGMP Proxy     IGMP Proxy       Storm Suppression     Suppress broadcast, multicast and unicast       DHCP     DHCP Server	IP Routing	Static Routing		
Multicast     IGMP snooping       IGMP Proxy       Storm Suppression     Suppress broadcast, multicast and unicast       DHCP     DHCP Server		OSPF		
Multicast     IGMP Proxy       Storm Suppression     Suppress broadcast, multicast and unicast       DHCP     DHCP Server		VRRP		
IGMP Proxy       Storm Suppression     Suppress broadcast, multicast and unicast       DHCP     DHCP Server	Multicast	IGMP snooping		
DHCP Server		IGMP Proxy		
DHCP	Storm Suppression	Suppress broadcast, multicast and unicast		
DHCP Snooping	DHCP			
		DHCP Snooping		

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## **TG-NET**

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

# **TG-NET**

### **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