

Overview

TG-NET S5100 series switches are L2 10GE Switches. The series are cost-efficient design, support up to four 10GB expansion ports. With excellent security control policies, protection mechanism and convenient Web management, the S5100 series are the first choices for the convergence layer use in enterprise and campus networks, core layer use in medium-and-small sized enterprise networks, and the edge layer use of Metropolitan Area Network(MANs).

The series support easy configuration and management by Web-based interface. The switches integrate multiple services such as Simple Network Management Protocol(SNMP), comprehensive network security, high reliability CPU protection ,carrier class power protection and Energy Efficient Ethernet(EEE), ensuring maximum uptime and lower cost.

The series consist of four models: : S5100-28G-4TF,S5100-32F-4TF,S5100-52G-4TF and S5100-52F-4TF.

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Quality Link Connections



Hardware Features

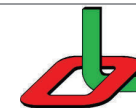
 <p>S5100-28G-4TF</p> <p>24*10/100/1000 Base-T ports; 4 * 1000 Base-X SFP combo ports; 1-4 *10GB SFP+ ports(work with expansion module); 1 * Console port;</p>	 <p>S5100-32F-4TF</p> <p>24*1000 Base-X SFP ports; 8*10/100/1000 Base-T Combo ports; 1-4 *10GB SFP+ ports(work with expansion module); 1* Console port;</p>
 <p>S5100-52G-4TF</p> <p>48*10/100/1000 Base-T ports; 4 * 1000 Base-X SFP combo ports; 1-4 *10GB SFP+ ports(work with expansion module); 1 * Console port;</p>	 <p>S5100-52F-4TF</p> <p>48* 1000 Base-X SFP ports; 4*10/100/1000 Base-T combo ports; 1-4 *10GB SFP+ ports(work with expansion module); 1 * Console port;</p>

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Characteristics

■ Various Port Types and Flexible Port Expansion

The S5100 supports 2 pieces of 10G expansion cards 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(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 address authentication based on IP +MAC addresses and 802.1x authentication 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.

■ 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 sable 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.

Carrier-class switching power supply, supporting 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, suitable for professional network administrators.

Support resetting to factory defaults, make the maintenance more easily.

■ Innovative Energy Saving Design, the leader of low-carbon communication

Support IEEE 802.3az(Energy Efficient Ethernet), port energy detection, CPU variable-frequency and device hibernate technology, greatly reducing energy consumption and noise without compromising performance and stability.

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Product Specifications

Item	S5100-28G-4TF	S5100-32F-4TF	S5100-52G-4TF	S5100-52F-4TF
Service Ports	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
Console Port	1*Console port			
Expansion Slots	2* 10G expansion slot (rear panel)			
10G Expansion Module	One-port 10G SFP+ module			
	Dual-port 10G SFP+ module			
Switching Capacity	192Gbps		240Gbps	
Packet Forwarding Capacity	96Mpps		131Mpps	
Operation Temperature	-20~50° C			
Storage Temperature	-40~70° C			
Operation Temperature	10%~90%(non-condensing)			
Storage Humidity	5%~95%(non-condensing)			
Dimensions	440 (L)×285(W)×44.5(H)mm			
Weight	<4Kg			
Input Voltage(AC)	AC: 90~264V/50~60Hz			
Power Consumption	<50W		<70W	

Service Features

Item	S5100-28G-4TF	S5100-32F-4TF	S5100-52G-4TF	S5100-52F-4TF
Standards and 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 802.3az,EEE(Energy Efficient Ethernet)			
	IEEE 802.1AB-2005,LLDP(Link Layer Discovery Protocol)			
	IEEE 802.1w,Rapid Spanning Tree Protocol			
	IEEE 802.1q,VLAN			
	IEEE 802.1p,QoS/CoS			
MAC Address	32K MAC addresses			
	Adding of dynamic/static MAC address			
VLAN	4096 VLANs			
	Port-based VLANs			
	VLANs based on IEEE 802.1q			
Spanning Tree	RSTP(Rapid Spanning Tree Protocol)			
Port 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 (that is, multiple mirroring ports, and one monitor port)			
Ring Protection	Industrial-level Ethernet Ring Protection Switching(ERPS)			
Flow 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
Multicast	IGMP Snooping
Storm Suppression	Suppression of broadcast, multicast, DLF flooding and ICMP flooding
Security	Standard IP ACL (IP-based hardware ACL)
	Extended IP ACL (Hardware ACL based on the IP address and TCP/UDP port number)
	Port based binding of IP+MAC addresses
	Port-based and MAC-based 802.1X authentication
QOS	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 tugs
	Differentiated Service
Configuration and Management	Uploading or downloading of the configuration data;
	Configuration via the console port
	WEB-based reset to factory defaults;
	System logs
	WEB-based interface management
	CLI (Command Line Interface) configuration mode
	SNMP management

Ordering Information

Items	Product Information
S5100-28G-4TF	24*10/100/1000 Base-T ports;4 *1000 Base-X SFP combo ports;2*10G expansion slots(Maximum support 4 * 10G ports);1*Console port;
S5100-32F-4TF	24 *1000 Base-X SFP ports;8*10/100/1000 Base-T combo ports;2*10G expansion slots(Maximum support 4 * 10G ports);1*Console port;
S5100-52G-4TF	48*10/100/1000 Base-T ports;4 *1000 Base-X SFP combo ports;2*10G expansion slots(Maximum support 4 * 10G ports);1*Console port;
S5100-52F-4TF	48 *1000 Base-X SFP ports;4*10/100/1000 Base-T combo ports;2*10G expansion slots(Maximum support 4 * 10G ports);1*Console port;
10G Expansion slot	Expansion Card Information
S5100-1SFP+	One-port 10G SFP+ expansion card (work with SFP+ Optic Module)
S5100-2SFP+	Dual-port 10G SFP+ expansion card (work with SFP+ Optic Module)
Fiber Optic Module	Module Information
SFP+-10GE-SX-MM850	10GE SFP+ Multimode Module-(850nm,0.3km,LC)
SFP+-10GE-LX-SM1310	10GE SFP+ Single Mode Module-(1310nm,10km,LC)
SFP-GE-SX-MM850	GE SFP Multimode Module-(850nm,0.55km,LC)
SFP-GE-LX-SM1310	GE SFP Single Mode Module-(1310nm,20km,LC)
SFP-GE-LX-SM1550	GE SFP Single Mode Module-(1550nm,80km,LC)

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