





Overview

The S3100 series are L2 gigabit Ethernet Switches developed by TG-NET. Except for excellent non-blocking line-speed data switching, the series support diversified service features as well. The switches supports easy-to-use Web management and comprehensive security policies, which enable to establish high security and easy-managed access network environments in government networks, campus networks, enterprise networks and other public networks.

The series consist of four models: S3100-16F-8G、S3100-8F-8G、S3100-24G-2F、S3100-24G.

Hardware Features

	<p>S3100-16F-8G</p> <p>16* 1000 Base-X SFP ports; 8*10/100/1000 Base-T ports; 1*Console port;</p>		<p>S3100-8F-8G</p> <p>8* 1000 Base-X SFP ports; 8*10/100/1000 Base-T ports; 1*Console port;</p>
	<p>S3100-24G-2F</p> <p>24*10/100/1000 Base-T ports; 2* 1000 Base-X SFP combo ports; 1*Console port;</p>		<p>S3100-24G</p> <p>24*10/100/1000 Base-T ports; 1*Console port;</p>

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Characteristics

■ Flexible and Diversified Ports

The S3100 series consist of four models, which provides diverse port groups, for example: 16* 1000 Base-X SFP + 8*10/100/1000M Base-T, or 8* 1000 Base-X SFP + 8*10/100/1000M Base-T, or 24 *10/100/1000M Base-T + 2 * 1000 Base-X multiplex SFP, or 24 *10/100/1000M Base-T. Users can choose one suitable model according to different network situation and demands.

■ Non-blocking High-speed Forwarding

Support L2 level wire-speed port switching, which enables all ports to forward packets without blocking.

■ Convenient and Quick Management and Maintenance

The network switch 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 manage the switch easily.

Support CLI command line management, suitable for professional network administrators.

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

■ Comprehensive Security Control Policies

Support link aggregation to enhance the network bandwidth, which also defend the network security together with link backup.

Support port ring detection and ring avoidance.

Support the binding of user access interface, IP addresses and MAC addresses, to defend against inner network ARP attacks and Dos attacks.

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Support storm control function, can efficiently suppress the broadcast, multicast, DLF and ICMP flood attacks.

Support the Back-pressure traffic control under Half-Duplex mode and IEEE 802.3x traffic control under Full-Duplex mode. The heavy traffic data peak can be switched stably without the concern of network paralysis caused by overload.

■ Carrier-class High-reliable Power Protection

Adopt carrier-class switching power supply, which support 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.

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Product Specifications

Item	S3100-16F-8G	S3100-8F-8G	S3100-24G-2F	S3100-24G
Service Ports	16*1000 Base-X SFP	8*1000 Base-X SFP	2*1000 Base-X combo SFP	24*10/100/1000 Base-T
	8*10/100/1000 Base-T	8*10/100/1000 Base-T	24*10/100/1000 Base-T	
Management Port	1* Console port			
Switching Capacity	≥48Gbps			
Packet Forwarding Capacity	36Mpps			
Operation Temperature	-20~50°C			
Storage Temperature	-40~70°C			
Operation Humidity	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	<30W			

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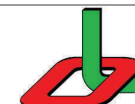
Service Features

Item	S3100-16F-8G	S3100-8F-8G	S3100-24G-2F	S3100-24G
Protocol and Standards	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 802.3x, Full-Duplex Flow Control;			
	IEEE 802.1q, VLAN;			
	IEEE 802.1p, QoS/CoS;			
	IEEE 802.1d, Spanning Tree Protocol;			
	IEEE 802.1w, Rapid Spanning Tree Protocol;			
MAC Address	16K MAC addresses;			
	Support auto-update, two-way learning;			
VLAN	256 VLANs;			
	Port-based VLANs;			
	VLANs based on IEEE 802.1q;			
Spanning Tree	STP Spanning Tree Protocol;			
	RSTP Rapid Spanning Tree Protocol;			
Port Aggregation	12 aggregation groups, each containing up to 12 ports;			
	Static aggregation and dynamic aggregation;			
Port Mirroring	Many-to-one mirroring (that is, multiple mirroring ports, and one monitor port)			
Ring Guard	Ring detection and avoidance			
Traffic Control	Back-pressure traffic control under Half-Duplex mode			
	IEEE 802.3x traffic control under Full-Duplex mode			

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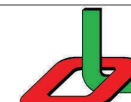


Flow Rate Limitation	Port-based ingress or egress rate limiting
Multicast	IGMP Snooping
Storm Suppression	Support the suppression of broadcast, multicast, DLF flooding and ICMP flooding
Security	Binding of the User port, IP addresses and MAC addresses;
	802x1 port authentication;
QOS	SP (Strict Priority);
	WFQ (Weighted Fair Queuing);
	WRR (Weighted Round Robin);
	802.1p (Port Queuing Priority);
Configuration and Management	DSCP Priority(Differentiated Service Code Point) ;
	Uploading or downloading of the configuration data;
	Uploading of upgrade patch;
	WEB-based reset to factory defaults;
	WEB-based interface management;
	CLI interface management;
	SNMP management;

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Ordering Information

Module Number	Product Information
S3100-16F-8G	16* 1000 Base-X SFP ports; 8*10/100/1000 Base-T ports; 1*Console ports;
S3100-8F-8G	8* 1000 Base-X SFP ports; 8*10/100/1000 Base-T ports; 1*Console ports;
S3100-24G-2F	24*10/100/1000 Base-T ports; 2* 1000 Base-X Combo SFP ports; 1*Console ports;
S3100-24G	24*10/100/1000 Base-T ports; 1*Console ports;
Fiber Optic Module	Module Information
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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