S3500 Series

Full Gigabit L2 Managed Switches

Data Sheet

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Overview

The S3500 series are L2 gigabit Ethernet Switches developed by TG. 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 two models: S3500-10G-2F, S3500-26G-2F, S3500-28G-4F,

Appearance

	S3500-10G-2F 8*10/100/1000 Base-T ports; 2*1000 Base-X SFP ports; 1*Console port;		**S3500-26G-2F** 24*10/100/1000 Base-T ports; 2*1000 Base-X SFP ports; 1*Console port;
	;		**S3500-28G-4F** 24*10/100/1000 Base-T ports; 4*1000 Base-X SFP ports; 4*10/100/1000 Base-T ports (combo); 1*Console port;

Features

- **Non-blocking High-speed Forwarding**

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

- **Comprehensive Security Control Policies**

  Support link aggregation to enhance the network bandwidth and defend the network security with link backup.

  Support multiple spanning tree protocols: STP, RSTP, provide rapid convergence and improved fault-tolerant capacity. The network sable operation and load balance are well guaranteed, also improved the reasonable use of network channels and redundant link;

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

  Support attacks defense strategies, against for Land attacks, Blat attacks, Ping attacks, TCL controled flag attacks.

  Support IEEE 802.1x port authentication, process security authentication for access users.

  Support storm suppression based on bandwidth adjustment, storm flitering and ACL strategie.

  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.

- **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 Port Mirror Function, can monitor the ingress, egress or bi-direction packets.

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

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

Supports 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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Specifications

Item	S3500-10G-2F	S3500-26G-2F	S3500-28G-4F
Service Ports	8*10/100/1000 Base-T ports; 2*1000 Base-X SFP ports;	24*10/100/1000 Base-T ports; 2*1000 Base-X SFP ports	24*10/100/1000 Base-T ports; 4*1000 Base-X SFP ports; 4*10/100/1000 Base-T ports (combo);
Management Port	1* Console port		
Reset	N/A	1	
Switching Capacity	128Gbps	256Gbps	
Packet Forwarding Capacity	42Mpps	96Mpps	
Operation Temperature	-20~50°C		
Storage Temperature	-40~70°C		
Operation Humidity	10%~90%(non-condensing)		
Storage Humidity	5%~95%(non-condensing)		
Dimensions	230（L)*154(W)*44(H)mm	440（L)×285(W)×44.5(H) mm	
Weight	<4Kg		
Input Voltage(AC)	AC：110~240V/50~60Hz		
Power Consumption	<10W	<30W	
LED Indicator	Power, System, Link/Act		
Energy Saving	Comply with "EEE" Energy Efficient Ethernet		

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Application

Item	S3500-10G-2F	S3500-26G-2F	S3500-28G-4F	
Standards and Protocols	IEEE 802.3u,100BASE-TX			
	IEEE 802.3ab,1000 BASE-T			
	IEEE 802.3z,1000 BASE-X			
	IEEE 802.3ad,Static or Dynamic Link Aggregation			
	IEEE 802.3x,Full-Duplex Flow Control			
	IEEE 802.3az,EEE(Energy Efficient Ethernet)			
	IEEE 802.1q,VLAN			
	IEEE 802.1p,QoS/CoS			
	IEEE 802.1d,STP(Spanning Tree Protocol)			
	IEEE 802.1w,Rapid Spanning Tree Protocol			
MAC Address Table	Up to 8K MAC addresses			
	Support auto-update, two-way learning			
Buffer Memory	4.2Mbit			
Jumbo Frame	9K Bytes		10K Bytes	
VLAN	Port-based VLANs			
	4K-entry Vlan Table			
	VLANs based on IEEE 802.1q			
Spanning Tree	Support Spanning Tree Protocol			
	Support Rapid Spanning Tree Protocol			
	N/A			
Link Aggregation	Support 8 aggregation groups, and a maximum of 8 ports in each aggregation group			
	Static aggregation and LACP			

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Port Mirroring	Support bi-direction port mirroring
Port Isolation	Isolation between downlink ports without influence the communication between downlink and uplink ports
Port Flow Control	Back-pressure traffic control under Half-Duplex mode
	IEEE 802.3x traffic control under Full-Duplex mode
Port Rate Restriction	Port-based ingress or egress rate limiting
DHCP	DHCP Snooping
	N/A
Storm Suppression	Support the suppression of broadcast storm based on forwarding rate
Multicast Control	Support IGMPv1/2/3 and MLDv1/2 Snooping;
Security	Attack Prevention(Land attack\Blat attck\Ping attack\TCP control flag attrck)
	MAC or Port based Security
	IP ACL,MAC ACL,Vlan ACL
	N/A
	N/A
	N/A
	N/A
QOS	802.1p(Port Queuing Priority)
	WRR (Weighted Round Robin)
	Cos/Tos, QOS
Physic Medium	10/100Base-TX:UTP category 3/4/5 cables(Maximum 100m)
	1000Base-T:UTP Category 5 cable(Maximum 100m)
	1000Base-SX:fiber with 850nm wavelength, supports a max transmission distance of 550m
	1000Base-LX:fiber with 1310nm / 1550nm wavelength, supports a max transmission distance of 80km
Network Cable Deployment	Support Auto-MDIX function, automatically identify straight forward cable and cross-over cable
Negotiation Pattern	Support port auto-negotiation function(automatically negotiate transmission rate and Duplex modes)
Maintenance	Detect the connectivity of network cables
	Uploading or downloading of the configuration data

	Uploading of upgrade patch
	Support system logs
	WEB-based reset to factory defaults
Management	WEB-based management
	CLI Management (Command Line Interface)
	Telnet
	SNMP
	TG Cloud box management, TG Cloud management

Order Information

Model Number	Detailed information
S3500-10G-2F	8*10/100/1000 Base-T ports; 2*1000 Base-X SFP ports;1*Console ports;
S3500-26G-2F	24*10/100/1000 Base-T ports; 2*1000 Base-X SFP ports;1*Console ports;
S3500-28G-4F	24*10/100/1000 Base-T ports;4*1000 Base-X SFP ports;4*10/100/1000 Base-T ports (combo);1*Console port;