

Overview

The S2100 series are gigabit Web Smart Switches developed by TG-NET. Except for excellent non-blocking line-speed data switching, the series support excellent ring protection performance and can easily solve diversified loop problem, which make the series best choice for ring networks like residential building networks, campus dormitory networks, hotel networks.

The S2100 series adopt high security policies as well, supporting carrier-class power protection to prevent against lightning, overpressure and surging, keeping excellent performance in bad environments. With IEEE 802.3az(Energy Efficient Ethernet), port energy detection, CPU variable-frequency and device hibernate technology, the switches are cost-efficient choice for users.

The series consist of two models:S2100-26G-2F、S2100-10G-2F

Hardware Features

 <p>S2100-26G-2F 24*10/100/1000 Base-T ports; 2*1000Base-X Independent SFP ports;</p>	 <p>S2100-10G-2F 8*10/100/1000 Base-T ports; 2*1000Base-X Independent SFP ports;</p>
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Characteristics

■ High Speed and Efficiency Ring Protection

Real-time Monitoring: Built-in configuration-free ring protection, can provide real-time monitoring and find the network rings without delay.

Quick Alarm: The built-in buzzer quickly alarm when a ring is found , to warn the network administrator of ring problems.

Precise Localization: The ring problem interface indicator will flash slowly and periodically to help the network administrator precisely localize the ring port without any delay.

Intelligent Blocking: The switch can automatically block ring port when detect a ring problem, which can efficiently avoid broadcast storm caused by ring problem and secure the normal network communication.

Auto-recovery: After the ring problem is removed, the network will recover automatically, the buzzer stop alarming and ring port back to normal work.

■ Non-blocking High Speed Forwarding

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

■ Convenient and Quick Management and Maintenance

Adopts simple visual Web-based interface, which helps users to handle various functions easily and conveniently.

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

■ Carrier-class High-reliable Power Protection

Adopts carrier-class switching power supply, which supports 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.

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

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Product Specifications

Item	S2100-26G-2F	S2100-10G-2F
Service Ports	24*10/100/1000 Base-T ports 2* 1000 Base-X independent SFP ports	8*10/100/1000 Base-T ports 2* 1000 Base-X independent SFP ports
Switching Capacity	≥52Gbps	20Gbps
Packet Forwarding Capacity	39Mpps	15Mpps
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	230(L)×148(W)44.5(H)mm
Weight	<4Kg	<2Kg
Input Voltage(AC)	AC: 90~264V/50~60Hz	
Power Consumption	<30W	

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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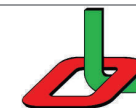
Service Features

Item	S2100-26G-2F	S2100-10G-2F
Standards and Protocols	IEEE 802.3u,100BASE-TX	
	IEEE 802.3ab,1000 BASE-T	
	IEEE 802.3z,1000 BASE-X	
	IEEE 802.3x,Full-Duplex Flow Control	
	IEEE 802.3az,EEE(Energy Efficient Ethernet)	
	IEEE 802.1q,VLAN	
	IEEE 802.1p,QoS/CoS	
MAC address	16K MAC addresses	
VLAN	4096 VLANs	
	Port-based VLANs	
	VLANs based on IEEE 802.1Q	
Ring Protection	Ring Protection, real-time detecting, quick alarm,precise localization, smart blocking and auto-recovery	
Port Isolation	Isolation between downlink ports without influence the communication between downlink and uplink ports	
Traffic 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 limiting	
Jumbo Frame	Maximum 9216Byte	
Storm Suppression	Suppression of broadcast storm based on forwarding rate	
QOS	SP (Strict Priority)	
	WFQ (Weighted Fair Queuing)	
	WRR (Weighted Round Robin)	
	802.1p (Port Queuing Priority)	
	Differentiated Service Code Point(DSCP Priority)	
Configuration and	Uploading or downloading of the configuration data	

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Management	Uploading of upgrade patch
	WEB-based reset to factory defaults
	Support WEB-based management

Ordering Information

Item	Product Information
S2100-26G-2F	24*10/100/1000 Base-T ports;2* 1000Base-X independent SFP ports
S2100-10G-2F	8*10/100/1000 Base-T ports;2* 1000Base-X independent SFP 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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