

10 Port Full Gigabit 8 Port Poe

L2 Managed Fiber Switch

Description

TS-SG2208P supports 8 * 10/100/1000 adaptive electrical ports, 2 * SFP fiber ports, is a layer 2 managed switch. All RJ45 Ports support the 802.3af/at (PoE+) standard, supplying total PoE power of 150W.

With abundant layer 2 management features supported. TS-SG2208P is capable of delivering high throughput to even the most demanding edge-of-network workgroups, while in small networks it can act as a backbone for gigabit switches and high-speed servers. 2 SFP slots provide greater network flexibility. The TS-SG2208P is designed exclusively for the networking needs of growing businesses, with an extensive suite of management and security features available. These devices are cost-effective for small and medium-sized businesses, providing ideal solutions for a variety of network scenarios.

View:



Features

- 8 x 10/100/1000Mbps auto-sensing Ports, 2x 1000Mbps SFP Ports, 1 x Console Port;
- 8x IEEE802.3at/af, with total Poe budget 150W.
- Support IEEE802.3/IEEE802.3u/IEEE802.3ab/IEEE802.3z, store-and-forward;

- Flow control mode: full-duplex adopts IEEE 802.3x standard, half-duplex adopts Back pressure standard;
- Support port auto flip (Auto MDI/MDIX);
- Supports MAC address auto-learning and auto-aging.
- Store and forward mode operates.
- LED indicators for monitoring power, link/activity
- Support QoS, port mirroring, link aggregation protocol.
- Supports Web-based GUI, Command Line Interface (CLI) , through telnet, SNMP
- 19 inches full metal iron shell and internal power adapter design, suitable for rack installation.

Application

- Metro Optical Broadband Network: Data network operators such as telecommunications, cable TV, and network system integration,etc.
- Broadband private network: Suitable for financial, government, oil, railway, electric power, public security, transportation, education and other industries
- Multimedia transmission: Integrated transmission of images, voice and data, suitable for remote teaching, conference TV, videophone and other applications
- Real-time monitoring: Simultaneous transmission of real-time control signals, images and data

Specification

I/O Interface	
Ethernet	8*10/100/1000Mbps Ethernet Port 2*1000Mbps SFP Port 1*Console Port
Performance	
Bandwidth	20Gbps (non-blocking)
Packet Forwarding rate	41.67Mpps
Packet Buffer	4.1Mbit
Jumbo Frame	12KBytes
MAC Address	8K
VLANs	VLAN range 1-4094, with a maximum active VLAN of 256
Transfer Mode	Store and forward
PoE Ports	8× IEEE802.3at/af
Power Pin Assignment	1/2(+),3/6(-)
Poe Budget	150W@100~260VAC,50/60HZ

Standard	
Network protocol	IEEE802.3: 10Base-T IEEE802.3u :100Base-TX IEEE802.3ab: 1000Base-TX IEEE802.3z :1000Base-FX IEEE 802.3x: Flow control IEEE 802.1ab: LLDP/LLDP-MED (Link Layer Discovery Protocol) IEEE 802.1p: LAN Layer QoS/CoS Protocol Traffic Prioritization(Multicast filtering function) IEEE 802.1q: VLAN Bridge Operation IEEE 802.1x: Client/Server Access Control and Authentication Protocol IEEE 802.3ad: Standard method for performing link aggregation IEEE 802.1d: STP IEEE 802.1s: MSTP IEEE 802.1w: RSTP IEEE 802.3 af IEEE 802.3at
Industry Standard	EMS: EN61000-4-2 (ESD)、 EN61000-4-5 (Surge)
Network Medium	10Base-T : Cat3、4、5 or above UTP(≤100m) 100Base-TX : Cat5 or above UTP(≤100m) 1000Base-TX : Cat5 or above UTP(≤100m)
optical characteristics	multi mode: 850/1310nm (0-2KM) Single mode: 1310/1550/1490nm (0-120KM)
Protection	
Security Certificate	CE、FCC、RoHS
Environment	
Working Environment	Working Temperature: -10~50°C Storage Temperature: -40~70°C Working Humidity : 10%~90%, non-condensing Storage Temperature: 5%~95%, non-condensing
Indication	
LED Indicators	PWR、SYS、Link、ACT
Mechanical	
Structure Size	Product Size: 230*150*44.5mm Product Net-Weight: 1KG Product Gross-Weight: 1.5KG
Package List	Ethernet switch: 1 Set、Instruction manual: 1 PCS、Certificate: 1 PCS、Power cord:1PCS Serial cable: 1PCS、Power:1PCS

 Software Function

L2 Features	
Flow Control	802.3x (Full-duplex)
	Back-Pressure (Half-duplex)
Spanning Tree	IEEE 802.1D (STP)
	IEEE 802.1w (RSTP)
	IEEE 802.1s (MSTP)
	Auto Edge Port
	BPDU Filtering
	ERPS
	Self Loop Detection
Link Aggregation	IEEE 802.3ad LACP
	Static Trunk
	Max. Group
	Max. Ports/Group
	Traffic Load Balancing

VLAN	
VLAN Voice VLAN	Static
	VLAN 256
	Port-based
	IEEE 802.1Q Tagged-based
	Protocol-based
	MAC-based
	OUI Mode (Auto/Manual)
Surveillance VLAN	OUI Mode (Auto/Manual)
QinQ (IEEE 802.1ad)	Basic
GARP VLAN Registration Protocol (GVRP)	Yes

Multicast		
Common	Multicast Groups 256	
	Immediate Leave	
	Static/Forbidden Forward Port	
	Filtering 128 profiles	
	Throttling	
IGMP Snooping	IGMP v1/v2	
	IGMP v3 Basic (BISS)	
	IGMP v2/v3 Querier	
MLD Snooping	MLD v1/v2	
Multicast VLAN Registration (MVR)	Yes (IPv4)	
QoS Features		
Priority Queue	8 queues/port	
Queue Scheduling	WRR	
	WFQ	
	Strict Pripority	
	Hybrid(WRR+SP or WFQ+SP)	
Class of Service	Port-based	
	802.1p	
	IP TOS Precedence	
	IP DSCP	
Trusted QoS	Yes	
Rate Limit	Port-based (Ingress/Egress)	
Access Control List (ACL)		
Access Rules	1024	
ACL Type	L2/L3/L4	
	MAC-based	512
	IPv4-based	
	IPv6-based	
Poe Function	Poe Dog	
Security		
AAA	Authentication	
TACACS+	8	
RADIUS	8	

Authentication Manager	IEEE 802.1X
	MAC Auth
	Web Auth
	Guest VLAN
	Port-based
	Host-based
Account Manager	Local Authenticoitin
	Multiple User Account
	Multi-Level Security (Manager/Operator)
	Password Recovery Procedures
Management Access	Management VLAN
	Management ACL
WebUI	HTTPS
CLI	SSH v1/v2
Port Security	Dynamic Lock
Storm Control	Broadcast
	Unknown Multicast
	Unknown Unicast
Spanning Tree	BPDU Guard
Protected Port (Port Isolation)	
Black Hole MAC	
CPU Defence Engine	
DoS Prevention	
DHCP Snooping (with Option 82)	
Dynamic VLAN Assignment	
Dynamic ARP Inspection	
IP Source Guard	
IP/MAC/Port Binding (IMPB)	
IPv6	
IPv6 Host	Auto Configuration
	Static IPv6 Address and Prefix Length
	Static IPv6 Default Gateway
	IPv6 Neighbor Discovery (ND)
	IPv6 Duplicate Address Detection
	ICMPv6
	HTTP/HTTPS

IPv6 Application	TELNET	
	SSH	
	SNMP	
	TFTP	
	Syslog	
	PING	
	DHCPv6	
Management		
CLI	Console	
	Telnet (RFC854)	
WebUI	HTTP	
SNMP	v1	
	v2c	
	v3	
File Management	Firmware Upgrade/Backup	
	Dual Images	
	Configuration Download/Backup	
	Multiple Configurations	
Upload/Download	TFTP (RFC783)	
	HTTP	
	UART	
Time Management	Local	
	SNTP	
Port Management	Friendly Port Name (Port Description)	
	Error Disabled Recovery	
	Console	
Line Management	Telnet (RFC854)	
	SSH v1/v2	
DHCP	Client	
DNS	Client	
Software Reset Button		
EEE (802.3az)		
RMON Management		32 entries / type
Discovery		

IEEE 802.1AB Link Layer Discovery Protocol (LLDP)	
ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)	
Diagnostics	
Mirroring	Port-based (Many to One)
Syslog (RFC3164)	Local RAM
	Local Flash
	Remote Server
System Diagnostics	CPU Utilization
	Memory Utilization
	Port Utilization
Port Diagnostics	Cable Test
	Fiber Module Status
Network Diagnostics	Ping Test
	Traceroute
UDLD	
MIB	
RFC1213 MIBII (System & Interface groups)	
RFC2819 RMON I (1,2,3, & 9 groups)	
RFC1215 Generic Traps	
RFC1493 Bridge	
RFC2674 Bridge MIB Extensions	
RFC2737 Entity	
RFC3635 Ethernet-Like	
RFC2863 Interface Group	
SNMP-Community-MIB	
SNMPv3-MIB	