


Specifications

Hardware Features & Performance

Product Picture		
Model		TL-SG3424P
Hardware Features		
Connector	10/100/1000Mbps Base-T Ports	24
	Combo 100/1000Mbps SFP slots*	4
	Console Port	1
Power Supply		100-240VAC, 50/60Hz
FAN Quantity		3
Certifications		CE, FCC
PoE Features		Standard: 802.3at/af compliant
		PoE Ports: 24 Ports
		PoE Power Supply: 320W
Dimensions (W x D x H)		17.3 x 13 x 1.7 in. (440 x 330 x 44 mm)
		19-inch Rack mount Steel Case, 1U Height
Environment		Operating Temperature: 0°C~40°C (32°F~104°F), Storage Temperature: -40°C~70°C (-40°F~158°F) Operating Humidity: 10%~90% non-condensing, Storage Humidity: 5%~90% non-condensing
Performance		
Switch Capacity		48Gbps
Forwarding Rate		35.7Mpps
MAC Address Table		8k
Jumbo Frame		10KB

Software Features

L2 Switching Features

- **Link Aggregation**
 - Support static link aggregation
 - Support 802.3ad LACP
 - Up to 8 aggregation groups, containing 8 ports per group
- **Spanning Tree Protocol(STP)**
 - IEEE 802.1D Spanning Tree Protocol
 - IEEE 802.1s Multiple Spanning Tree Protocol
 - IEEE 802.1w Rapid Spanning Tree Protocol
 - STP Security: Loop back detection, TC Protect, BPDU Filter/Protect, Root Protect
- **Multicast**
 - Support IGMP Snooping V1/V2/V3, up to 256 groups
 - Support multicast VLANs, IGMP Immediate Leave, Unknown IGMP Throttling, IGMP Filtering, Static Multicast IP
- **VLAN**
 - Support IEEE802.1Q with 4K VLAN groups and 4K VIDs
 - Support Port VLAN, Protocol VLAN and MAC-based VLAN
 - Support GARP/GVRP feature
- **IEEE 802.3x flow control for Full Duplex mode and backpressure for Half Duplex mode**

Quality of Service (QoS)

- Support 802.1p CoS/DSCP priority
- Support 4 priority queues
- Queue scheduling: SP, WRR, SP+WRR
- Port/Flow- based Rate Limiting
- Voice VLAN assure voice applications much smoother performance

Advanced Security Strategies

- IP-MAC-Port-VID Binding
- Static/Dynamic Port Security (MAC-based)
- DoS defend feature
- Dynamic ARP Inspection
- 802.1x authentication
 - Support 802.1x port/MAC based authentication
 - Support Radius authentication and accountability
 - Guest VLAN
- Access Control List (ACL)
 - L2~L4 package filtering based on source and destination MAC address, IP address, TCP/UDP ports, 802.1p, DSCP, protocol and VLAN ID
 - Time based ACL
- Support Broadcast, Multicast and Unknown unicast Storm Control
- Secure web management through HTTPS and SSLv2/v3/TLSv1
- Secure remote command line interface(CLI) management with SSH v1/V2

Management

- Support Web-based GUI management mode
- Support Command Line Interface(CLI) through console port, telnet management mode
- SNMP v1/v2c/v3
- RMON (1, 2, 3, 9 groups)
- DHCP/BOOTP Client
 - DHCP Snooping

- DHCP Option 82
- CPU Monitoring
- Port Mirroring (Many to One)
- Cable Diagnostics feature
- Ping/Tracert feature
- SNTP
- Integrated NDP/NTDP feature
- System Log

Ethernet Protocols

- IEEE 802.3i 10BASE-T
- IEEE 802.3u 100BASE-TX/FX
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3z 1000BASE-X
- IEEE 802.3av GVRP
- IEEE 802.3ad Link Aggregation
- IEEE 802.3x Flow control
- IEEE 802.1p QoS
- IEEE 802.1q VLANs / VLAN tagging
- IEEE 802.1v Protocol VLAN
- IEEE 802.1d Spanning Tree Protocol (STP)
- IEEE 802.1s Multiple Spanning Tree (MSTP)
- IEEE 802.1w Rapid Spanning Tree (RSTP)
- IEEE 802.1x Network Login Security

MIBs

- MIB II (RFC1213)
- Interface MIB (RFC2233)
- Ethernet Interface MIB (RFC1643)
- Bridge MIB (RFC1493)
- P/Q-Bridge MIB (RFC2674)
- RMON MIB (RFC2819)
- RMON2 MIB (RFC2021)
- Radius Accounting Client MIB (RFC2620)
- Radius Authentication Client MIB (RFC2618)
- Remote Ping, Traceroute MIB (RFC2925)
- Support TP-LINK private MIBs