



TP-LINK

24-Port Gigabit Smart PoE Switch with 4 Combo SFP Slots

TL-SG2424P

Overview

The TL-SG2424P provides 24 10/100/1000Mbps ports that supports 802.3at/af-compliant PoE, with a total PoE power supply up to 180W, powerful and flexible enough for users to deploy wireless access points or IP-based network surveillance cameras. The switch also comes equipped with 4 combo SFP slots, expanding your network flexibly. In addition, it provides high performance, enterprise-level QoS, useful security strategies and rich layer 2 management features. With all these advanced features, the Gigabit Smart PoE Switch is an ideal choice for small and medium business networking.

TL-SG2424P has useful security features. The Storm Control feature protects against Broadcast, Multicast and Unknown unicast Storm. Quality of Service (QoS, L2 to L4) provides enhanced traffic management capabilities to move your data smoother and faster. Any more, the easy-to-use web management interfaces, along with CLI, SNMP and RMON, mean faster setup and configuration with less downtime. For workgroup and departments requiring cost-sensitive layer 2 switch and gigabit capability, TP-LINK Gigabit Smart PoE Switch TL-SG2424P provides you the ideal access-edge solution.

PoE Features

- Standard: 802.3at/af compliant with up to 30W per port
- PoE+ Ports: 24 Ports
- Power Supply: 180W
- PoE Schedule (Time-based Settings)

Layer 2 Features

- Link Aggregation Control Protocol (LACP)
- 512 VLANs
- STP/RSTP/MSTP
- IGMP Snooping
- LLDP (LLDP-MED)

Security Strategies

- Access Control List (L2~L4 ACL)
- Storm Control
- Port Security
- SSL and SSH encryptions

Quality of Service

- 4 priority queues
- IEEE 802.1P
- DSCP QoS

Management

- Web-based GUI
- Command Line Interface
- SNMP v1/v2c/v3
- RMON (1, 2, 3, 9 group)



- Details: <http://www.tp-link.com/support/Localesupport.asp>
- German/Austrian/Swiss users are not included



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TL-SG2424P

IEEE 802.3at/af-compliant Power over Ethernet

The TL-SG2424P supports 24 ports of IEEE 802.3at/af-compliant PoE and has a total power supply of 180W to power any 802.3at or 802.3af compliant power device. It's an efficient and cost-effective choice to work with wireless access points, surveillance cameras, IP phones and other PoE supported devices, while getting rid of cables or power lines running around. Compact and flexible, the TL-SG2424P is ideal to flexibly use PoE to deploy wireless access points or IP-based network surveillance cameras for projects or small business networks.

Advanced QoS features

To integrate voice, data and video service on one network, the switch applies rich QoS policies. Administrator can designate the priority of the traffic based on a variety of means including Port Priority, 802.1P Priority and DSCP Priority, to ensure that voice and video are always clear, smooth and jitter free.

Abundant Layer 2 features


For more application of layer 2 switches, TL-SG2424P provides comprehensive layer 2 features, including 802.1Q tag VLAN, Port Mirroring, STP/RSTP/MSTP, Link Aggregation Control Protocol and 802.3x Flow Control function. Any more, the switch provides advanced features for network maintenance. Such as Loop Back Detection, Cable Diagnostics and IGMP Snooping. IGMP snooping ensures the switch intelligently forward the multicast stream only to the appropriate subscribers while IGMP throttling & filtering restrict each subscriber on a port level to prevent unauthorized multicast access.

Enterprise Level Management Features

TL-SG2424P is easy to use and manage. It supports various user-friendly standard management features, such as intuitive web-based Graphical User Interface(GUI) or industry-standard Command Line Interface (CLI), SNMP (v1/2/3) and RMON support enables the switch to be polled for valuable status information and send traps on abnormal events.

Specifications

Hardware Features & Performance

Product Picture		
Model		TL-SG2424P
Hardware Features		
Connector	10/100/1000Mbps Base-T Ports	24
	Combo 100/1000Mbps SFP slots*	4
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: 180W	
Dimensions (W × D × H)	17.3 × 13 × 1.7 in. (440 × 330 × 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 802.3ad LACP
 - Support static link aggregation
 - Up to 6 aggregation groups, containing 4 ports per group
- **Spanning Tree Protocol(STP)**
 - IEEE 802.1D Spanning Tree Protocol
 - IEEE 802.1W Rapid Spanning Tree Protocol
 - IEEE 802.1S Multiple 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 512 VLANs simultaneously (out of 4K VIDs)
- **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

- Support Broadcast, Multicast and Unknown unicast Storm Control
- Static/Dynamic Port Security (MAC-based)
- Access Control List (ACL)
 - L2~L4 package filtering based on source and destination MAC address, IP address, TCP/UDP Ports
 - Time based ACL
- 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 telnet management mode
- SNMP v1/v2c/v3
- RMON (1, 2, 3, 9 groups)
- DHCP/BOOTP Client
- DHCP Filtering

- CPU Monitoring
- Port Mirroring (Many to One)
- Cable Diagnostics feature
- Ping/Tracert feature
- SNTP
- 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 802.3ad Link Aggregation
- IEEE 802.3x Flow control
- IEEE 802.1p QoS
- IEEE 802.1q VLANs / VLAN tagging
- IEEE 802.1D Spanning Tree Protocol (STP)
- IEEE 802.1W Rapid Spanning Tree (RSTP)
- IEEE 802.1S Multiple Spanning Tree (MSTP)

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)
- Remote Ping, Traceroute MIB (RFC2925)
- Support TP-LINK private MIBs

Ordering Information

Host Switch	
Product Model	Description
TL-SG2424P	24-Port Gigabit Smart PoE Switch with 4 Combo SFP Slots
SFP Modules	
Product Model	Description
TL-SM311LS	Gigabit SFP module, Single-mode, LC interface, Up to 10km distance
TL-SM311LM	Gigabit SFP module, Multi-mode, LC interface, Up to 550m distance
TL-SM321A	Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX:1550nm/RX:1310nm, 10km
TL-SM321B	Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector, TX:1310nm/RX:1550nm, 10km

Media Converter	
Product Model	Description
MC210CS	Gigabit single-mode SC SFP Transceiver, up to 15Km, chassis mountable
MC200CM	Gigabit multi-mode SC SFP Transceiver, up to 550m, chassis mountable
MC220L	Gigabit SFP slot supporting mini-GBIC modules, chassis mountable
MC1400	14-slot power supply chassis for TP-LINK Media Converter, 19-inch rack-mountable

* The switch supports 100/1000Mbps SFP module at full-duplex mode. When using the SFP port with a 100M module or a gigabit module, you need to configure its corresponding Speed and Duplex mode through firmware.

By factory default, the Speed and Duplex mode of SFP port is 1000Mbps Full-duplex.