# TP-LINK

## 8-Port Gigabit Smart PoE Switch with 2 SFP Slots

TL-SG2210P

## ◤ Overview

TP-LINK Gigabit Smart Switch TL-SG2210P is equipped with 8 gigabit RJ45 ports and 2 SFP slots, all RJ45 Ports support the PoE standard with total PoE power budget of 53W and useful PoE power management features. The switch provides high performance, enterprise-level QoS, useful security strategies and rich layer 2 management features.

TP-LINK's Gigabit Smart Switch TL-SG2210P is especially designed for the small and medium business networks that require efficient network management. TL-SG2210P comes with a comprehensive set of features, such as Link Aggregation Group, 802.1Q VLAN, Access Control Lists (ACL), Quality of Service(QoS L2 to L4), Storm Control and IGMP Snooping to provide a small or medium-sized business with a network that is geared for growth while ensuring performance and reliability. What's more, its easy-to-use web management interface means faster setup and configuration with less downtime, providing the ideal solution for your business network.

## PoE Features

- Standard: 802.3af compliant
- PoE Ports: 8 Ports
- Power Supply: 53W

## Layer 2 Features

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

## Quality of Service

- 4 priority queues
- Support IEEE 802.1P
- DSCP QoS
- Rate limit feature

## Security Strategies

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

## Management

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

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Global technical support

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

# TP-LINK
# 8-Port Gigabit Smart PoE Switch
# with 2 SFP Slots
# TL-SG2210P

## IEEE 802.3af-compliant Power over Ethernet

The TL-SG2210P supports 8 ports of IEEE 802.3af-compliant PoE and has a total power supply of 53W to power any 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-SG2210P 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.In conjunction with the Voice VLAN the switch supports, the voice applications will operate with much smoother performance.

## Abundant Layer 2 Features

For more application of layer 2 switches, TL-SG2210P supports a complete lineup of layer 2 features, including 802.1Q tag VLAN, Port Isolation, Port Mirroring, STP/RSTP/MSTP; Link Aggregation Control Protocol and 802.3x Flow Control function. Any more, the switches provide 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-SG2210P 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-SG2210P** |
| **Physical Features** | |
| Interface | 8 10/100/1000Mbps RJ45 Ports<br>2 1000Mbps SFP Slots<br>(Auto-Negotiation/Auto MDI/MDIX) |
| Power Supply | 100-240VAC, 50/60Hz |
| Fan Quantity | Fanless |
| Certification | CE, FCC |
| Dimensions (W x D x H) | 8.2 x 4.9 x 1.0 in (209 x 126 x 26mm) |
| Environment | Operating Temperature: 0℃~40℃(32℉~104℉);  Storage Temperature: -40℃~70℃(-40℉~158℉);<br>Operating Humidity: 10%~90% non-condensing;  Storage Humidity: 5%~90% non-condensing |
| **Performance** | |
| Switch Capacity | 20Gbps |
| Forwarding Rate | 14.9Mpps |
| Mac Address Table | 8k |
| Package Buffer Memory | 512KB |
| Jumbo Frame | 9216 Bytes |

### 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)
- **LLDP(LLDP-MED)**
- **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
- SSL and SSH encryptions

## 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
- CPU Monitoring
- Port Mirroring (Many to One)

- Cable Diagnostics feature
- Ping/Tracert 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 802.3x 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 (RFC843)
- 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-SG2210P | 8-Port Gigabit Smart PoE Switch with 2 SFP Slots |
| **Routers** | |
| **Product Model** | **Description** |
| TL-ER604W | SafeStream Wireless N Gigabit Broadband VPN Router |
| TL-R470T+ | Load Balance Broadband Router |
| **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 Converters** | |
| **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 |