



10-Port Gigabit Easy Smart Switch with 8-Port PoE+

MODEL: TL-SG1210MPE Datasheet



Overview

The TL-SG1210MPE is an 10-port Gigabit Easy Smart Switch with 8 PoE+ ports, represents a powerful upgrade from an unmanaged switch. It is designed specially for small businesses that require simple network management and PoE function. The TL-SG1210MPE can connect and power up to 8 PoE devices, such as wireless access points (APs), IP cameras, and IP phones. Through its web-based user interface and management utility, the TL-SG1210MPE offers a variety of useful features, including network monitoring, traffic prioritization, PoE Auto Recovery and enhanced QoS. Additionally, with port-based, tag-based and MTU VLAN, TL-SG1210MPE can improve security and meet more network segmentation requirements.

Power Over Ethernet

8 of the 10 Auto-Negotiation RJ45 ports (port 1 to port 8) of the switch support Power over Ethernet (PoE) function. These PoE ports can automatically detect and supply power with those IEEE 802.3af/at compliant Powered Devices (PDs).

Overload Arrangement

TL-SG1210MPE has the priority function which will help protect the system when the system power is overloaded. If all PoE PDs power consumption is ≥ 123 W, a priority will be arranged among the PoE ports, then the system will cut off the power of the lowest-priority port.

Port Priority Function

Priority (port 1 > port 2 > port 3>... > port 8): This function will help protect the system when the system power is overloaded. For example, port 1, 2, 3 and 5 is using 25 W respectively (maximum power per port is 30 W); the system power is 100 W in total. If there is an additional PD inserted to port 4 with 30 W, and then the system will cut off the power of port 5 because of the overloaded power, this means port 1, 2, 3 will use 25 W respectively and port 4 will use 30 W, no power will be supplied to port 5.

Effective Management

TL-SG1210MPE offers network monitoring for users to observe traffic behavior. Through its web-based user interface and management utility, the TL-SG1210MPE offers a variety of useful features, including network monitoring, traffic prioritization, PoE Auto Recovery and enhanced QoS.

With Port Mirroring, Loop Prevention and Cable Diagnostics features, TL-SG1210MPE can identify and even locate connection problems on your business network. Also, administrators can designate the priority of the traffic based on Port Priority, 802.1P Priority and DSCP Priority, to ensure that voice and video are always clear, smooth and lag-free.

Additionally, to improve security and network performance, TL-SG1210MPE supports MTU VLAN, port-based VLAN and 802.1Q-based VLAN functions. PoE Auto Recovery automatically reboots your dropped or unresponsive PoE-powered devices.


TL-SG1210MPE is an upgrade from the plug-and-play Unmanaged Switch, delivering great value while empowering your network and similarly delivering great value to the end user.

Easy to Use

TL-SG1210MPE is easy to use and manage. Auto MDI/MDI-X crossover on all ports eliminate the need for crossover cables or uplink ports. Auto-negotiation on each port senses the link speed of a network device (either 10, 100, or 1000 Mbps) and intelligently adjusts for compatibility and optimal performance. Its compact size makes it ideal for desktops with limited space. Dynamic LED lights provide real-time work status display and basic fault diagnosis.

Specifications

Hardware Features & Performance

| | | |
|-------------------|-----------------------|--|
| Product Picture | |  |
| Model | | TL-SG1210MPE |
| Physical Features | Interface | 10 10/100/1000 Mbps RJ45 Ports 1 1000 Mbps SFP Slot (Combo) |
| | PoE Standard | 802.3af/at |
| | PoE Ports | Port 1-8, up to 30 W per port |
| | PoE Power Budget | 123 W |
| | External Power Supply | External Power Adapter(output: 53.5 VDC/2.43 A) |
| | Max Power Consumption | 7.66 W (220 V/50 Hz. no PD connected) 141.54 W (220 V/50 Hz. with 123 W PD connected) |
| | Max Heat Dissipation | 26.12 BTU/h (220 V/50 Hz. no PD connected) 482.65 BTU/h (220 V/50 Hz. with 123 W PD connected) |
| | Fan Quantity | Fanless |
| | LED | Power, PoE Max, Speed/Link/Act, PoE Status |
| | Certification | CE, FCC |
| | Dimensions | 8.2 × 4.9 × 1.0 in (209 × 126 × 26 mm) |
| | Environment | Operating Temperature: 0°C to 40°C (32°F to 104°F) Storage Temperature: -40°C to 70°C (-40°F to 158°F) Operating Humidity: 10% to 90% RH, non-condensing Storage Humidity: 5% to 95% RH, non-condensing |
| Performance | Switching Capacity | 20 Gbps |
| | Forwarding Rate | 14.88 Mpps |
| | MAC Address Table | 4K |
| | Jumbo Frame | 16 KB |

PoE Disclaimer

The speed of the ports in extend mode will downgrade to 10 Mbps. The actual transmission distance may vary due to power consumption of PoE-powered devices or the cable quality and type.

PoE budget calculations are based on laboratory testing. Actual PoE power budget is not guaranteed and will vary as a result of client limitations and environmental factors.

Specifications

Software Features

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|--------------------------|---|
| L2 Switching Features | <ul style="list-style-type: none">• IGMP Snooping<ul style="list-style-type: none">- IGMP Snooping- Supports 128 Groups• Link Aggregation<ul style="list-style-type: none">- Supports static link aggregation- Supports up to 4 aggregation groups, containing 4 ports per group• Port Mirroring<ul style="list-style-type: none">- One to One- Many to One• Cable Test• Loop Prevention |
| VLAN | <ul style="list-style-type: none">• Supports up to 32 VLANs (out of 4K VLAN IDs)• MTU/Port/802.1Q VLAN |
| Quality of Service (QoS) | <ul style="list-style-type: none">• Support Port-based/802.1p/DSCP priority• Support 4 priority queues• Rate Limit• Storm Control |
| PoE | <ul style="list-style-type: none">• Extend Mode• PoE Auto Recovery |
| Management | <ul style="list-style-type: none">• Web-based Graphic User Interface (GUI)• Easy Smart Conguration Utility<ul style="list-style-type: none">- Central Management- Friendly user interface |
| Ethernet Protocols | <ul style="list-style-type: none">• IEEE 802.3i 10BASE-T• IEEE 802.3u 100BASE-TX/FX• IEEE 802.3ab 1000BASE-T• IEEE 802.3x Flow Control• IEEE 802.1q VLANs/VLAN tagging• IEEE 802.1p QoS |