# 10-Port Gigabit Desktop Switch with 6-Port PoE+ and 2-Port PoE++

MODEL: TL-SG1210PP Datasheet

## Highlights

- With 6 PoE+ and 2 PoE++ ports, transfers data and power on one single cable
- Working with IEEE 802.3af/at/bt compliant PDs, expands your network
- Supports PoE power up to 60 W for PoE++ port and 30 W for each PoE+ port
- Supports PoE power up to 123 W* for all PoE ports
- Priority Mode ensures high priority of ports 1–2 to guarantee the quality of the sensitive applications
- Isolation Mode allows one-click client traffic separation for higher security and performance
- Up to 250 m data and power transmission under Extend Mode** specially designed for surveillance system
- With PoE Auto Recovery, the switch will automatically reboot your dropped or unresponsive PoE-powered devices connected to port 1–8
- Requires no configuration and installation
- Fanless Design
- Supports desktop and wall mountable installation methods

# Overview

TL-SG1210PP is an unmanaged switch with 10 Gigabit ports that requires no conϔiguration and provides 8 PoE (Power over Ethernet) ports. It can automatically detect and supply power with all IEEE 802.3af/at/bt compliant Powered Devices (PDs) at port 1-2 and IEEE 802.3af/at compliant Powered Devices (PDs) at port 3-8. In this situation, the electrical power is transmitted along with data in one single cable allowing you to expand your network to where there are no power lines or outlets, where you wish to ϔix devices such as APs, IP Cameras or IP Phones, etc.

# Power Over Ethernet

8 RJ45 ports (port 1 to port 8) of the switch support Power over Ethernet (PoE) function. They can automatically detect and supply power with those IEEE 802.3af/at/bt compliant Powered Devices (PDs) at port 1-2 and IEEE 802.3af/at compliant Powered Devices (PDs) at port 3-8.

## Overload Arrangement

TL-SG1210PP has the priority function which will help protect the system when the system power is overloaded. If all PoE PDs power consumption is Ǩ 123 W*, a priority will be arranged among the PoE ports, then the system will cut oϘ the power of the lowest-priority port.

## Intelligent Power Management

Priority (port 1 > port 2 .....> port 8): This function will help protect the system when the system power is overloaded. For example, port 3, 4, 5 and 6 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 1 with 35 W, and then the system will cut oϘ the power of port 6 because of the overloaded power, this means port 3, 4 and 5 will use 25 W respectively and port 1 will use 35 W, no power will be supplied to port 6.

# Highlight Performance

- Up to 250 m PoE power supply and data transmission under Extend Mode** for port 1-4.
- Priority Mode ensures high priority of ports 1–2 to guarantee the quality of the sensitive applications
- Isolation Mode allows one-click client traȝc separation for higher security and performance
- With PoE Auto Recovery, the switch will constantly detect the data transmission with PoE-powered devices (PD) for port 1-8. When the switch ϔinds that a PD stops sending data packets to the switch for a long period, the switch will reboot it automatically.

# Easy to Use

TL-SG1210PP is easy to install and use. It requires no conϔiguration and installation. With desktop and wall mountable design, outstanding performance and quality, the TP-Link 10-Port Gigabit Desktop Switch with 8-Port PoE+ and 2-Port PoE++ TL-SG1210PP is a great selection for expanding your network.

# SpeciQcations

## Hardware Features & Performance

| | |
|---|---|
| Product Picture | |
| Model | TL-SG1210PP |
| Standards | IEEE 802.3i, IEEE 802.3u, IEEE 802.3x, IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt |
| Network Ports | 10 10/100/1000 Mbps RJ45 Ports; |
| Network Media (Cable) | 10BASE-T: UTP category 3, 4, 5 cable (maximum 100 m);<br>EIA/TIA-568 100DZ STP (maximum 100 m)<br>100BASE-TX: UTP category 5, 5e cable (maximum 100 m);<br>EIA/TIA-568 100DZ STP (maximum 100 m)<br>1000BASE-T: UTP category 5e cable or above (maximum 100 m);<br>EIA/TIA-568 100DZ STP (maximum 100 m) |
| PoE | PoE Standard: IEEE 802.3af/at/bt for ports 1-2, IEEE 802.3af/at for ports 3-8<br>PoE Port 1-2: up to 60 W per port<br>PoE Port 3–8: up to 30 W per port<br>PoE Power Budget: 123 W* |
| Auto-Negotiation | YES |
| Auto MDI/MDIX | YES |
| PoE Power on RJ45 | Port 1-2:<br>Power+: pin 3 & pin 6<br>Power -: pin 1 & pin 2<br>Power+: pin 4 & pin 5<br>Power -: pin 7 & pin 8<br>Port 3-8:<br>Power+: pin 3 & pin 6<br>Power -: pin 1 & pin 2 |
| Max Power Consumption | 8.7 W (220 V/50 Hz no PD connected)<br>144.1 W (220 V/50 Hz with 123 W* PD connected) |
| Max Heat Dissipation | 29.67 BTU/h (220 V/50 Hz no PD connected)<br>491.38 BTU/h (220 V/50 Hz with 123 W* PD connected) |
| Forwarding Mode | Store and Forward |
| Switch Capacity | 20 Gbps |
| MAC Address Table | 4K, Auto-learning, Auto-aging |
| Extend Mode | YES (for Ports 1–4) |
| PoE Auto Recovery | YES (for Ports 1-8) |
| Isolation Mode | YES (for Ports 1-4/5-8) |
| Priority Mode | YES (for Ports 1-2) |
| Flow Conrol | YES |
| Fanless | YES |
| LED | Power, Link/Act, PoE Status, PoE MAX |
| Dimensions | 8.2x5.0x1.0in (209x126x26 mm) |
| Certification | CE, FCC |
| Environment | Operating Temperature: 0ËC to 40ËC (32ËF to 104°F)<br>Storage Temperature: -40ËC to 70ËC (-40ËF to 158°F)<br>Operating Humidity: 10% to 90% RH, non-condensing<br>Storage Humidity: 5% to 90% RH, non-condensing |

Note:

* 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.

**The speed of the ports which are under extend mode will be downgraded to 10Mbps. Actual transmission distance may vary from the quality of the cables.



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