5-Port 2.5G Desktop Switch with 4-Port PoE++

MODEL: TL-SG105PP-M2 Datasheet

Highlights

- With 4 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 each PoE++ port

- Supports PoE power up to 123 W* for all PoE ports

- With PoE Auto Recovery, the switch will automatically reboot your dropped or unresponsive PoE-powered devices connected to port 1–4

- Provides super-fast connections to 2.5G NAS, Server, 2.5G PCIe Adapter/ NIC, gaming computer, 2.5G WiFi 6 AP, 8K video, and more

- Auto-negotiation for 10Mbps/100Mbps/1Gbps/2.5Gbps connections provide optimal performance

- Requires no configuration and installation

- Fanless Design

- Supports desktop and wall mountable installation methods

Overview

TL-SG105PP-M2 is an unmanaged switch with 5 Gigabit ports that requires no configuration and provides 4 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 1-4. 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 fix devices such as APs, IP Cameras or IP Phones, etc.

The 2.5G ports support automatic negotiation to 10Mbps/100Mbps/1Gbps/2.5Gbps according to the type of connected device and provide sufficient bandwidth to unlock the highest performance of 2.5G/Multi-Gigabit devices, including NAS, a personal workstation, 8K video stream, and 2.5G Wi-Fi 6 AP.

Power Over Ethernet

4 RJ45 ports (port 1 to port 4) of the switch support Power over Ethernet (PoE) function. They can automatically detect and supply power with those connected IEEE 802.3af/at/bt compliant Powered Devices (PDs).

Overload Arrangement

TL-SG105PP-M2 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.

Intelligent Power Management

Priority (port 1 > port 2 > port 3 > port 4): This function will help protect the system when the system power is overloaded. For example, port 2, 3, and 4 is using 35 W respectively (maximum power per port is 60 W); the system power is 105W in total. If there is an additional PD inserted to port 1 with 23 W, and then the system will cut off the power of port 4 because of the overloaded power, this means port 1 will use 23 W respectively and port 2&3 will use 35 W, no power will be supplied to port 4.

Highlight Performance

- With PoE Auto Recovery, the switch will constantly detect the data transmission with PoE-powered devices (PD) for port 1-4. When the switch finds that a PD stops sending data packets to the switch for a long period, the switch will reboot it automatically.

- Provides super-fast connections to 2.5G NAS, Server, 2.5G PCIe Adapter/ NIC, gaming computer, 2.5G WiFi 6 AP, 8K video, and more.

- Auto-negotiation for 10Mbps/100Mbps/1Gbps/2.5Gbps connections provide optimal performance.

Easy to Use

TL-SG105PP-M2 is easy to install and use. It requires no configuration and installation. With desktop and wall mountable design, outstanding performance and quality, the TP-Link 5-Port 2.5G Desktop Switch with 4-Port PoE++ TL-SG105PP-M2 is a great selection for expanding your network.

Specifications

Hardware Features & Performance

Product Picture	
Model	TL-SG105PP-M2
Interface	5× 10Mbps/100Mbps/1Gbps/2.5Gbps RJ45 Ports
Network Media (Cable)	10BASE-T: UTP category 3, 4, 5 cable (maximum 100m) EIA/TIA-568 100Ω STP (maximum 100m) 100BASE-TX: UTP category 5, 5e cable (maximum 100m) EIA/TIA-568 100Ω STP (maximum 100m) 1000BASE-T: UTP category 5, 5e, 6 or above cable (maximum 100m) EIA/TIA-568 100Ω STP (maximum 100m)
PoE Ports (RJ45)	Standard: 802.3 af/at/bt type3 compliant PoE Ports: Port 1- Port 4 PoE Power Budget: 123 W
Auto-Negotiation	YES
Auto MDI/MDIX	YES
Power Supply	External Power Adapter (Output: 53.5 VDC / 2.43 A)
Max Power Consumption	7.57W (220 V/50 Hz with no PD connected) 143.37 W (220 V/50 Hz with 123W PD connected)
Max Heat Dissipation	25.81BTU/h (220 V/50 Hz with no PD connected) 488.89 BTU/h (220 V/50 Hz with 123W PD connected)
Forwarding Mode	Store and Forward
Switch Capacity	25 Gbps
MAC Address Table	4K, Auto-learning, Auto-aging
PoE Auto Recovery	YES (For Ports 1-4)
Flow Conrol	YES
Fan Quantity	Fanless
LED	Power, Link/Act, PoE Status, PoE MAX
Dimensions	8.2×4.9×1.0 in (209×126×26 mm)
Certification	FCC, CE, RoHS
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 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.

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