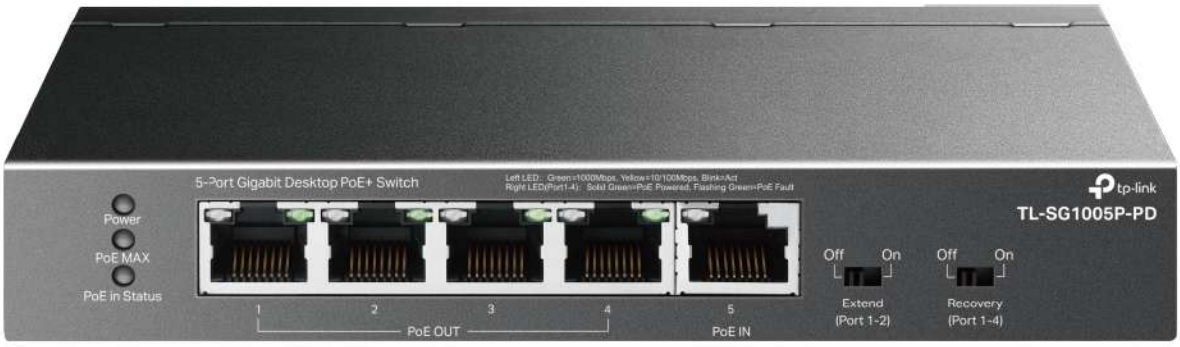
5-Port Gigabit Desktop PoE+ Switch with 1-Port PoE++ In and 4-Port PoE+ Out

MODEL: TL-SG1005P-PD Datasheet



Highlights

- With 1-Port Gigabit PoE++ In and 4-Port PoE+ Out, supports up to 66 W / 47 W / 21 W/ 9 W PoE budget output when powered by 802.3bt Type 4, 802.3bt Type 3, 802.3at, and 802.3af PoE standard, respectively.*
- With Extend Mode**, PoE transmission distance reaches up to 250 m, perfect for surveillance camera deployment in large areas.
- PoE Auto Recovery guarantees stable operation of PoE devices by automatically rebooting the dropped or unresponsive PD devices.
- Durable metal casing and desktop/wall-mounting design are well-suited for different environments.
- Industry-leading fanless design ensures silent operation, ideal for any home or business.
- Plug and Play, no configuration or central management required.***
- PoE power supply, no AC or DC power supply required.

Overview

TL-SG1005P-PD is an unmanaged switch with 5 Gigabit ports that requires no AC or DC power supply. It provides 1 PoE (Power over Ethernet) IN port and 4 PoE OUT ports. It can automatically detect and get power from all IEEE 802.3af/at/bt compliant Power Sourcing Equipment (PSE) at port 5 and provide power for IEEE 802.3af/at 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.

Power Over Ethernet

5 RJ45 ports (port 1 to port 5) of the switch support Power over Ethernet (PoE) function. They can automatically detect and get power from all IEEE 802.3af/at/bt compliant Power Sourcing Equipment (PSE) at port 5 and provide power for IEEE 802.3af/at compliant Powered Devices (PDs) at port 1-4.

Overload Arrangement

TL-SG1005P-PD has the priority function which will help protect the system when the system power is overloaded. If all PoE PDs power consumption exceeds the PoE power budget, 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. if the switch is powered by 802.3bt (type 4) with port 1, 2 and 4 consuming 15.4 W respectively, and an additional PoE device with 20 W is connected to port 3, the system will cut off the power of port 4 to compensate for the overload.

Highlight Performance

- Up to 250 m PoE power supply and data transmission under Extend Mode** for port 1-2.
- 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.

Easy to Use

TL-SG1005P-PD 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 Gigabit Desktop PoE+ Switch with 1-Port PoE++ In and 4-Port PoE+ Out TL-SG1005P-PD is a great selection for expanding your network.

Specifications

Hardware Features & Performance

Product Picture	
Model	TL-SG1005P-PD
Standards	IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, IEEE 802.3af, IEEE 802.3at, (For PoE IN Port only) IEEE 802.3bt
Network Ports	5 10/100/1000 Mbps RJ45 Ports;
Network Media (Cable)	UTP/STP of Cat. 5E or above (based on the standards that the connected devices comply with)
PoE INPUT	Compliance with 802.3af/at/bt
PoE OUTPUT	Compliance with 802.3af/at
PoE Budget (for different PoE INPUT types*)	802.3af (type 1): 9W 802.3at (type 2): 21W 802.3bt (type 3): 47W 802.3bt (type 4): 66W
Auto-Negotiation	YES
Auto MDI/MDIX	YES
PoE Power on RJ45	Port 1-4: Power+: pin 3 & pin 6 Power -: pin 1 & pin 2
Max Power Consumption	2.68 W (90W PoE In, with no PD connected) 68.59 W (90W PoE In, with 66 W PD connected)
Max Heat Dissipation	9.11 BTU/h (90W PoE In, with no PD connected) 233.21 BTU/h (90W PoE In, with 66 W PD connected)
Forwarding Mode	Store and Forward
Switch Capacity	10 Gbps
Packet Forwarding Rate	7.44 Mpps
MAC Address Table	2K, Auto-learning, Auto-aging
Extend Mode	YES (for Ports 1–2)
PoE Auto Recovery	YES (for Ports 1-4)
Flow Conrol	YES
Fanless	YES
LED	Power, Link/Act, PoE in Status, PoE MAX
Dimensions	6.2x4.0x1.0 in (158x101x25 mm)
Certification	CE, FCC
Environment	Operating Temperature: -30°C to 70°C (-22°F to 158°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.

**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.

***Omada Unmanaged Switches do not support Omada SDN central management.