

Installation Guide

5/8/16-Port Gigabit Desktop Switch

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Panel Explanation

Power LED

- **Power**
- On:** Power on
- Off:** Power off
- Flashing:** (TL-SG105/TL-SG105S/TL-SG108/TL-SG108S)
Loop occurs in the network topology

Link/Act LED

For TL-SG116:

- **1000M (Green)**
- On:** Running at 1000 Mbps
- Flashing:** Transmitting/receiving data
- **10/100M (Yellow)**
- On:** Running at 10/100 Mbps
- Flashing:** Transmitting/receiving data

For other models:

- **On:** Running at 10/100/1000 Mbps
- Off:** No device is linked to the corresponding port
- Quick flashing:** Transmitting/receiving data
- Slow flashing:** Loop is detected on the corresponding port

Switch

For TL-SG105/TL-SG105S/TL-SG108/TL-SG108S:

- Off On
- Loop Prevention**
- On:** The switch will monitor and address loop-related issues within the network structure to prevent disruptions caused by redundant pathing
- Off: (default)** The switch will not try to monitor or address loop-related issues

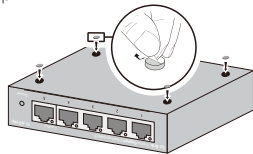
Note:

For simplicity, we will take TL-SG105 for example throughout this Guide.

Installation

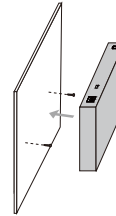
Desktop:

Attach the supplied feet to the bottom of the switch to prevent it from slipping when placed on a desktop.



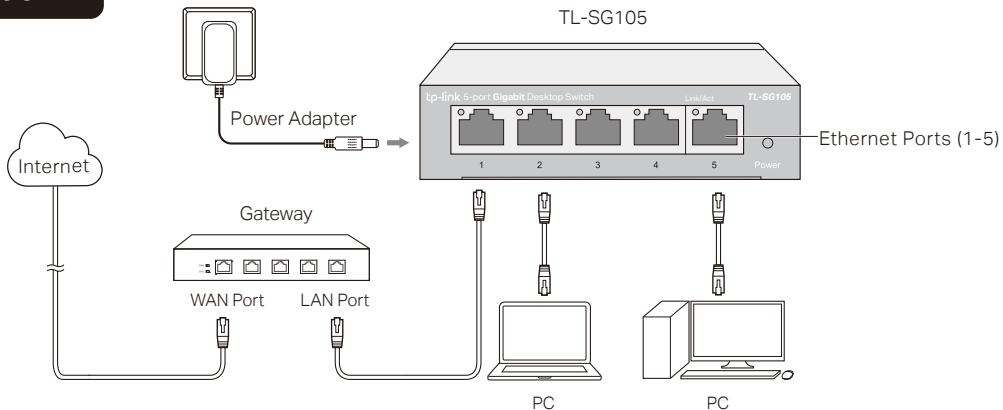
Wall-mounting:

Drill two holes on the wall according to the mounting holes on the bottom of the switch, then secure the switch to the wall with two suitable screws (not provided).



Note: For detailed information, please refer to the Wall Mounting Guide on the device's support page.

Connection



Specifications

General Specifications

Standard	IEEE802.3, IEEE802.3i, IEEE802.3u, IEEE802.3ab, IEEE802.3x, IEEE802.1p
Protocol	CSMA/CD
	Ethernet: 10 Mbps (Half Duplex), 20 Mbps (Full Duplex)
Data Transfer Rate	Fast Ethernet: 100 Mbps (Half Duplex), 200 Mbps (Full Duplex)
	Gigabit Ethernet: 2000 Mbps (Full Duplex)
	10BASE-T: 2-pair UTP/STP (≤100m) of Cat. 3 or above
Network Media (Cable)	100BASE-TX: 2-pair UTP/STP (≤100m) of Cat. 5 or above
	1000BASE-T: 4-pair UTP/STP (≤100m) of Cat. 5e or above
Interface	5/8/16 10/100/1000 Mbps Auto-Negotiation RJ45 Ports
LED Indicators	Power, Link/Act LED
Transfer Method	Store-and-Forward
MAC Address Learning	Automatically learning, automatically aging
Frame Forward Rate	10Base-T: 14881pps/Port 100Base-TX: 148810pps/Port 1000Base-T: 1488095pps/Port
Wall Mountable	Yes
Distance Between Mounting Holes	TL-SG105/TL-SG105S: 39 mm TL-SG108/TL-SG108S: 94 mm TL-SG116: 204.8 mm

Environmental and Physical Specifications

Operating Temperature	TL-SG116: -5 °C to 40 °C (23 °F to 104 °F) Other models: 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

Safety Information

- Keep the device away from water, fire, humidity or hot environments.
- Do not attempt to disassemble, repair, or modify the device. If you need service, please contact us.
- Do not use damaged charger or USB cable to charge the device.
- Do not use any other chargers than those recommended.
- Adapter shall be installed near the equipment and shall be easily accessible.
- Use only power supplies which are provided by manufacturer and in the origin packing of this product. If you have any questions, please don't hesitate to contact us.



For the EU countries, use only the power adapters listed below:

Model	Power Adapter	Manufacturer
TL-SG105	T050060-2C1	TP-Link
TL-SG105S	T050060-2C1	TP-Link
TL-SG108	T050060-2C1	TP-Link
TL-SG108S	T050060-2C1	TP-Link
TL-SG116	T120100-2C1	TP-Link



FCC STATEMENT

Product Name: 5-Port Gigabit Desktop Switch

Model Number: TL-SG105

Product Name: 5-Port Gigabit Desktop Switch

Model Number: TL-SG105S

Product Name: 8-Port Gigabit Desktop Switch

Model Number: TL-SG108

Product Name: 8-Port Gigabit Desktop Switch

Model Number: TL-SG108S

Component Name	Model
Power Adapter	T050060-2B1

Responsible party:

TP-Link Systems Inc.

Address: 10 Mauchly, Irvine, CA 92618

Website: <https://www.tp-link.com/us/>

Tel: +1 626 333 0234

Fax: +1 909 527 6804

E-mail: sales.usa@tp-link.com

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Product Name: 16-Port Gigabit Desktop Switch

Model Number: TL-SG116

Component Name	Model
Power Adapter	T120100-2B1

Responsible party:

TP-Link Systems Inc.

Address: 10 Mauchly, Irvine, CA 92618

Website: <https://www.tp-link.com/us/>

Tel: +1 626 333 0234

Fax: +1 909 527 6804

E-mail: sales.usa@tp-link.com

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Product Name: Power Adapter

Model Number: T050060-2B1

Responsible party:

TP-Link Systems Inc.

Address: 10 Mauchly, Irvine, CA 92618

Website: <https://www.tp-link.com/us/>

Tel: +1 626 333 0234

Fax: +1 909 527 6804

E-mail: sales.usa@tp-link.com

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Product Name: Power Adapter

Model Number: T120100-2B1

Responsible party:

TP-Link Systems Inc.

Address: 10 Mauchly, Irvine, CA 92618

Website: <https://www.tp-link.com/us/>

Tel: +1 626 333 0234

Fax: +1 909 527 6804

E-mail: sales.usa@tp-link.com

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

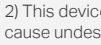
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

We, **TP-Link Systems Inc.**, has determined that the equipment shown as above has been shown to comply with the applicable technical standards, FCC part 15. There is no unauthorized change is made in the equipment and the equipment is properly maintained and operated.



Issue Date: 2025-10-17

Продукт сертифіковано згідно з правилами системи УкрСЕПРО на відповідність вимогам нормативних документів та вимогам, що передбачені чинними законодавчими актами України.

Frequently Asked Questions (FAQ)

Q1. The Power LED is not lit.

The Power LED should be lit when the power system is working normally. If the Power LED is not lit, check as follows:

A1: Make sure the power adapter is connected to the switch with power source properly.

A2: Make sure the voltage of the power supply meets the requirements of the input voltage of the switch.

A3: Make sure the power source is ON.

Q2. The Link/Act LED is not lit when a device is connected to the corresponding port.

It is recommended that you check the following items:

A1: Make sure that the cable connectors are firmly plugged into the switch and the device.

A2: Make sure the connected device is turned on and works normally.

A3: The cable must be less than 100 meters long (328 feet).

Q3. Why does the switch fail to detect and block a loop from occurring in the network topology when Loop Prevention is enabled?

A: When this switch is connected to other non-terminal devices, such as switches of other brands, and the device is incapable of correctly processing or forwarding loop detection packets, the Loop Prevention function will be limited. It is recommended to connect the terminal devices directly to this switch or connect non-terminal devices with complete forwarding capability to this switch.

EU Declaration of Conformity

For TL-SG116:

TP-Link hereby declares that the switch is in compliance with the essential requirements and other relevant provisions of directives 2014/30/EU, 2014/35/EU, 2011/65/EU and (EU)2015/863.

The original EU declaration of conformity may be found at <https://www.tp-link.com/en/support/tce/>

For other models:

TP-Link hereby declares that the switch is in compliance with the essential requirements and other relevant provisions of directives 2014/30/EU, 2014/35/EU, 2009/125/EC, 2011/65/EU and (EU)2015/863.

The original EU declaration of conformity may be found at <https://www.tp-link.com/en/support/tce/>

UK Declaration of Conformity

TP-Link hereby declares that the switch is in compliance with the essential requirements and other relevant provisions of the Electromagnetic Compatibility Regulations 2016 and Electrical Equipment (Safety) Regulations 2016.

The original UK declaration of conformity may be found at <https://www.tp-link.com/support/tuka/>

Wall Mounting Requirements

For TL-SG105/TL-SG105S/TL-SG108S:

To mount the device on a wall, use 2 screws which complies with ANSI B1.1 4#, (5#), 6#, 8# standard and are more than 7.5 mm in length. When the screws are fixed on the wall, the distance between the screw head and the wall should be more than 1.5 mm.

TL-SG108:
To mount the device on a wall, use 2 screws which complies with ANSI B1.1 4#, (5#), 6#, 8# standard and are more than 8.5 mm in length. When the screws are fixed on the wall, the distance between the screw head and the wall should be more than 1.5 mm.

TL-SG116:
To mount the device on a wall, use 2 screws which complies with ANSI B1.1 4#, (5#), 6# standard and are more than 8.5 mm in length. When the screws are fixed on the wall, the distance between the screw head and the wall should be more than 1.5 mm.

牆面安裝要求

TL-SG105/TL-SG105S/TL-SG108S

將設備安裝到牆上，需使用 2 顆符合 ANSI B1.1 4#、(5#)、6#、8# 標準、長度大於 7.5mm 的螺絲，螺絲固定在牆上時，螺絲頭與牆面的距離應大於 1.5mm。

TL-SG108:
將設備安裝到牆上，需使用 2 顆符合 ANSI B1.1 4#、(5#)、6#、8# 標準、長度大於 7.5mm 的螺絲，螺絲固定在牆上時，螺絲頭與牆面的距離應大於 1.5mm。

TL-SG116:
將設備安裝到牆上，需使用 2 顆符合 ANSI B1.1 4#、(5#)、6# 標準、長度大於 8.5mm 的螺絲，螺絲固定在牆上時，螺絲頭與牆面的距離應大於 1.5mm。

Explanation of the symbols on the product label

產品標籤上符號的解釋

Note: The product label can be found at the bottom of the product.

Symbols may vary from products.

注意：產品標籤可在產品底部找到。符號可能因產品而異。

Symbol 符號	Explanation 說明
	Class II equipment 二級設備
	Class II equipment with functional earthing 具有接地功能的二級設備
	Alternating current 交流電
	Direct current DC 電壓
	Polarity of DC power connector 輸出端點的極性
	For indoor use only 僅供室內使用
	Dangerous voltage 危險電壓
	Caution, risk of electric shock 請注意，有觸電的危險
	Energy efficiency marking 能源效率標誌
	Protective earthing 保護接地
	Earth 接地
	Frame or chassis 框架或外殼
	Functional earthing 功能接地
	Caution, hot surface 請注意，表面過熱
	Caution 警告
	Operator's manual 操作手冊
	Stand-by 待機
	"ON"/"OFF" (push-push) "開啟" / "關閉" (按壓式)
	Fuse 保險絲
	Fuse is used in neutral N 保險絲用於中性線 N
	RECYCLING 回收 This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment. Users have the choice to give their product to a competent recycling organization or to the retailer when they buy new electrical or electronic equipment. 這個產品帶有歐盟指令 2012/19/EU 中關於廢棄電氣電子設備 (WEEE) 的選擇性分類標誌。這意味著，該產品必須按照該指令處理，以便進行回收或拆解，從而最大限度地減少對環境的影響。 用戶可以選擇將產品交給有資格的回收機構，或在購買新的電器或電子設備時將其交給零售商進行回收。
	Caution, avoid listening at high volume levels for long periods 請小心，避免長時間以高音量收聽。
	Disconnection, all power plugs 斷線，所有電源插頭
	Switch of mini-gap construction 迷你間隙結構開關
	Switch of micro-gap construction (for US version) Switch of micro-gap / micro-disconnection construction (for other versions except US) 小間隙結構開關 (US 版本) 小間隙 / 小斷開結構的開關 (非 US 版)
	Switch without contact gap (Semiconductor switching device) 無接觸間隙的開關 (半導體開關設備)

限用物質含有情況標示聲明書

產品元件名稱	限用物質及其化學符號					
	鉛 Pb	鎘 Cd	汞 Hg	六價鉻 Cr ⁶⁺	多氯聯 苯 PCB	多溴二苯 醚 PBDE
PCB	○	○	○	○	○	○
外殼	○	○	○	○	○	○
電源供應器	-	○	○	○	○	○
其他及其配件	-	○	○	○	○	○

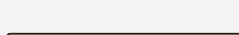
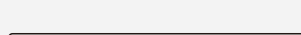
備考1: "○"系指該項限用物質之百分比含量未超出百分比含量基準值。
備考2: "-"系指該項限用物質為排除項目。

BSMI Notice

安全諮詢及注意事項

- 請使用原裝電源供應器或只能按照本產品注明的電源類型使用本產品。
- 清潔本產品之前請先拔掉電源線。請勿使用液體、噴霧清潔劑或濕布進行清潔。
- 注意防潮，請勿將水或其他液體潑灑到本產品上。
- 插槽與開口供通風使用，以確保本產品的操作可靠並防止過熱，請勿堵塞或覆蓋開口。
- 請勿將本產品置放於靠近熱源的地方。除非有正常的通風，否則不可放在密閉位置中。
- 請不要私自拆開機殼或自行維修，如產品有故障請與原廠或代理商聯繫。
- 警告：為避免電磁干擾，本產品不應安裝或使用於住宅環境。(For TL-SG116 only)

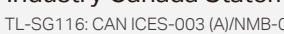
この装置は、クラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。 VCCI-A



Industry Canada Statement

TL-SG116: CAN ICES-003 (A)/NMB-003(A)

TL-SG105/TL-SG105S/TL-SG108/TL-SG108S: CAN ICES-003 (B)/NMB-003(B)



For TL-SG116: This is a class A product. In a domestic environment, this product may cause radio interference. It is recommended that you take adequate measures.