

Installation Guide

5/8-Port Gigabit Desktop Switch

* MS108GS is used for demonstration in this guide.
Images may differ from actual product.

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LED Explanation

Power

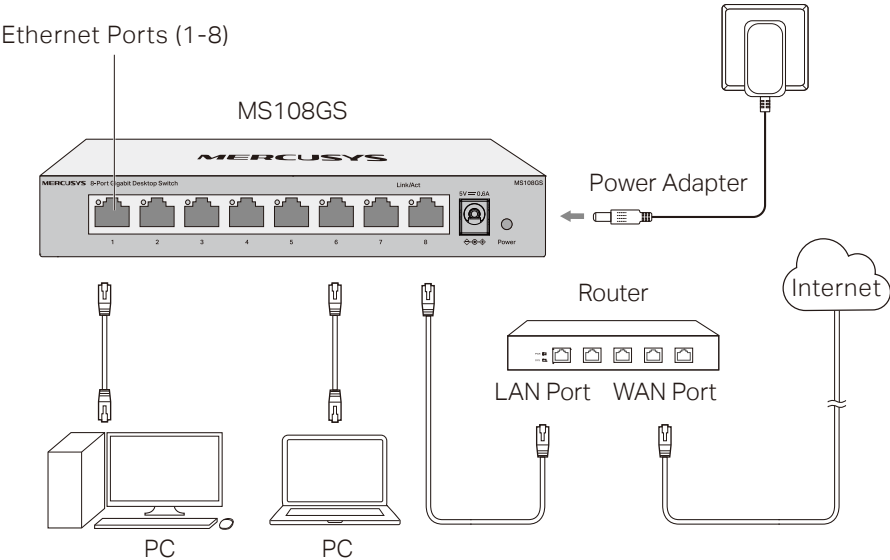
- On: Power on
- Off: Power off or power supply is abnormal
- Flashing: Power off or power supply is abnormal

Link/Act

- On: Running at 10/100/1000Mbps
- Off: No device is linked to the corresponding port
- Flashing: Transmitting/receiving data

Connection

Connect the hardware according to the connection diagram.



Specifications

General Specifications

| | |
|------------------------------------|--|
| Standard | IEEE 802.3, IEEE 802.3u, IEEE 802.3x |
| Protocol | CSMA/CD |
| Ethernet Cable (Twisted Pair) | 10BASE-T: 2-pair UTP/STP of Cat. 3 or above (≤100m) |
| | 100BASE-TX: 2-pair UTP/STP of Cat. 5e or above (≤100 m) |
| | 1000Base-T: 4-pair UTP/STP of Cat. 5e or above (≤100 m) |
| | |
| Interface | 5/8 10/100/1000 Mbps Auto-Negotiation RJ45 Ports |
| External Power Supply | MS105G/MS105GS/MS108GS: 5V/0.6A |
| | MS108G: 9V/0.6A |
| LED | Power, Link/Act |
| 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 | MS105G: 56.5 mm |
| | MS108G: 62 mm |
| | MS105GS: 76 mm |
| | MS108GS: 65.02 mm |

Environmental and Physical Specifications

| | |
|-----------------------|------------------------------------|
| 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 |

EU declaration of conformity

Mercusys 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.mercusys.com/en/cel/>.

UK declaration of conformity

Mercusys 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.mercusys.com/support/ukca/>



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 right and left LED are 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).

 For technical support, replacement services, user guides, and other information, please visit <https://www.mercusys.com/support/>.

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.
- 運作溫度：0°C~40°C (32°F~104°F)

Please read and follow the above safety information when operating the device. We cannot guarantee that no accidents or damage will occur due to improper use of the device. Please use this product with care and operate at your own risk.



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

| Model | Power Adapter | Brand |
|------------------------------|----------------------------|--------|
| MS105G MS105GS MS108GS | P050060-2C1 P050060-2D1 | VASATA |
| MS108G | P090060-2C1 P090060-2D1 | VASATA |

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。

限用物質含有情況標示聲明書

| 單元 Unit | 限用物質及其化學符號 | | | | | |
|------------|-------------------|----------------------|----------------------|---|--|--|
| | 鉛 Lead (Pb) | 汞 Mercury (Hg) | 鎘 Cadmium (Cd) | 六價鉻 Hexavalent chromium (Cr ⁺) | 多溴聯苯 Polybrominated biphenyls (PBB) | 多溴二苯醚 Polybrominated diphenyl ethers (PBDE) |
| PCB | ○ | ○ | ○ | ○ | ○ | ○ |
| 外殼 | ○ | ○ | ○ | ○ | ○ | ○ |
| 電源供應器 | - | ○ | ○ | ○ | ○ | ○ |
| 其他及其配件 | - | ○ | ○ | ○ | ○ | ○ |

備考1. “超出0.1 wt %”及“超出0.01 wt %”係指限用物質之百分比含量超出百分比含量基準值
Note 1: “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.
備考2. “○”係指該項限用物質之百分比含量未超出百分比含量基準值。
Note 2: “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.
備考3. “-”係指該項限用物質為排除項目。
Note 3: The “-” indicates that the restricted substance corresponds to the exemption.

Wall Mounting Specifications

嵌牆安裝規格

| Model 型號 | Screw Standard of ANSI B1.1 ANSI B1.1 的螺絲 規格 | Minimum Length of Screw 螺絲的最小長度 | Screw-Head-to-Wall Minimum Distance 螺絲頭到牆壁最短距離 | Wall-Mounting-Holes Distance 壁掛孔距離 |
|-------------|---|---------------------------------------|--|--|
| MS105G | 4#, (5#), 6# | 8.5 mm | 1.5 mm | 56.5 mm |
| MS108G | 4#, (5#), 6# | 8.5 mm | 1.5mm | 62 mm |
| MS105GS | 4#, (5#), 6# | 7.5 mm | 1.5mm | 76 mm |
| MS108GS | 4#, (5#), 6# | 7.5 mm | 1.5mm | 65.02 mm |

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 and its I.T.E. power supply.
Symbols may vary from products.
注意：產品標籤可以在產品底部和其I.T.E. 電源供應

| 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 直流電 |
| | Polarity of d.c. 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 earth 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. 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。 User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment. 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 |
| m | Switch of mini-gap construction 迷你間隙結構開關 |
| μ | 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） |
| ε | Switch without contact gap (Semiconductor switching device) 無接觸間隙的開關（半導體開關設備） |