**PSGS-5508F**

**Quick Installation Guide**

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# Chapter 1 Introduction

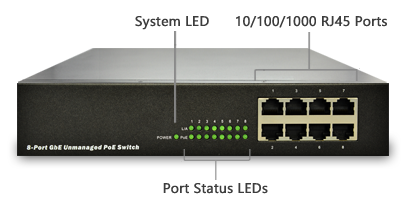
## Overview

PSGS-5508F is a 8 ports GbE Unmanaged PoE Switch. PSGS-5508F provide high-performance, IEEE-compliant network solutions. They include powerful management features that you can use to boost performance, and increase productivity.

This guide describes hardware installation and basic troubleshooting for these managed switches.

## Front panel of the Switch

**Figure 1 Front panel of the switch**



**Table 1 Port Status LEDs**

|  |  |  |
| --- | --- | --- |
| **LED** | **Condition** | **Status** |
| TP (Link/ACT) | Green/Blink | Lit Green when TP link good  Blinks when any traffic is present |

**Table 2 System Status LED**

|  |  |  |
| --- | --- | --- |
| **SYSTEM LED** | **Condition** | **status** |
| System | Green  OFF | Lit when power is coming up |

## Rear panel of the Switch

**Figure 2 Rear panel of the switch**

**AC Power Socket**

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# Chapter 2 Installing The Switch

|  |  |
| --- | --- |
| C:\Users\Jefferson\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\YPS5QSKC\QIG-icon4.png | **CAUTION:** Circuit devices are sensitive to static electricity, which can damage their delicate electronics. Dry weather conditions or walking across a carpeted floor may cause you to acquire a static electrical charge.  To protect your device, always:   * Touch the metal chassis of your computer to ground the static electrical charge before you pick up the circuit device. * Pick up the device by hold it on the left and right edges only. * If you use outdoor device connected to switch with cable then you need to install a surge arrester in between outdoor device and switch.   **Figure 3 Add a surge arrester between outdoor device and switch**  OUTDOOR |

|  |  |
| --- | --- |
| C:\Users\Jefferson\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\YPS5QSKC\QIG-icon3.png | **NOTE:** The switch is an indoor device; if it is to be used with outdoor devices such as outdoor IP camera or outdoor WiFi AP, then users must install a surge arrester to protect the switch |

|  |  |
| --- | --- |
| C:\Users\Jefferson\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\YPS5QSKC\QIG-icon2.png | **WARNING:**   * Self-demolition on Product is strictly prohibited. Damage caused by self-demolition will be charged for repairing fees. * Do not place the switch in outdoor environment. * Before installation, please make sure the input power source meeting the product specification * Before importing / exporting configuration file, please make sure the firmware version is always the same. |

## Package Contents

* PSGS-5508F GbE Unmanagement Switch
* Four adhesive rubber feet
* Mounting Accessory (for 19” Rack Shelf, Optional)
* Installation Guide
* AC Power cord

## Mounting the Switch in a 19-inch Rack

**Step1.** Attach the mounting brackets to both sides of the chassis with screws.

**Figure 4 Attaching mounting brackets to the switch**



**Step2.** Place the switch on a rack shelf in the rack. Push the switch in until the oval holes in the brackets align with the mounting holes in the rack posts.

**Step3.** Attach the mounting brackets to the rack posts with screws.

**Figure 5 Attaching mounting brackets to the rack post**



## Mounting the Switch on Desk or Shelf

**Step1.** Verify that the workbench is sturdy and reliably grounded.

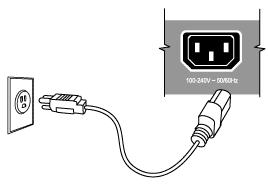
**Step2.** The rubber feet are included in the accessory kit. Attach the four adhesive rubber feet to the bottom of the switch.

**Figure 6 Attaching the Rubber Feet**



## Connecting the AC Power Cord

**Figure 7 Connecting the AC power cord to the AC power receptacle**

****

**Step1.** Connect one end of the AC power cord to the AC power receptacle on the switch.

**Step2.** Connect the other end of the AC power cord to the AC power outlet.

**Step3.** Examine the power LED. If it is ON, the power connection is correct.

# Chapter 3 Troubleshooting

**Troubleshooting Chart**

The following table lists Issues, Causes, and Action to possible problems.

**Table 3 Troubleshooting Chart**

|  |  |  |
| --- | --- | --- |
| **Issues** | **Cause** | **Action** |
| SYSTEM LED Off | No power is received. | Check the power cord connections for the switch at the switch and the connected device.  Make sure that all cables used are correct and comply with Ethernet specifications. |
| Link LED Off | Port connection is not working. | * Check the crimp on the connectors. Make sure that the plug is fully inserted and locked into the port at both the switch and the connecting device. * Make sure that all cables used are correct and comply with Ethernet specifications. * Check for a defective adapter card, cable, or port by testing it in an alternate environment where all products are functioning. |
| Slow file transfer or there is performance degradation. | Half- or full-duplex setting on the switch and the connected device are not the same. | * Make sure that the attached device is set to auto negotiate. |
| Device is not recognized as part of the network. | One or more devices are not properly connected, or cabling does not meet Ethernet guidelines. | Verify that the cabling is correct. Be sure that all connectors are securely positioned in the required ports. Equipment might have been accidentally disconnected. |

# Appendix A Technical Specifications

## Hardware Specification

**Table 4 Hardware Specification**

|  |  |
| --- | --- |
| **Port Configuration** | |
| 10M/100M/1G RJ45 Port | 8 |
| 100M/1G/2.5G RJ45 Port | -- |
| 100M/1G/10G RJ45 Port | -- |
| 100M/1G SFP Port | -- |
| 1G/2.5G SFP Port | -- |
| 1G/10G SFP+ Port | -- |
| GbE RJ45/SFP Combo Port | -- |
| Console Port | -- |
| Total Ports | 8 |
| **PoE Function** | |
| IEEE802.3at (PoE+ 30W) | **Y** |
| IEEE802.3af (PoE 15.4W) | **Y** |
| UPoE(60W) | -- |
| PoE Port | 8 |
| Available PoE Power | 130W |
| **HW Performance** | |
| Switching Bandwidth | 16Gbps |
| Forwarding Performance | 11.9Mpps |
| MAC Address | 8K |
| Jumbo Frames | 9216 Bytes |
| **Environemental Specification** | |
| Operating Temperature | 0°C to 40°C |
| Operating Humidity | 10 to 90% RH |
| Storage Temperature | -20 to 70°C |
| Storage Humidity | 10 to 90% RH |
| **Mechanical Specification** | |
| Dimensions (H) x (W) x (D) mm | 44 x 220 x 242 |
| Weight | 1.08 Kg |
| FAN Less | -- |
| **Power Source** | |
| AC Input | 100V-240V |
| DC Input | -- |
| AC/DC Dual Input | -- |

## 1000 MBPS Gigabit Ethernet Collision Domain

**Table 5 Maximum 1000BASE-T Gigabit Ethernet Cable Length**

|  |  |  |
| --- | --- | --- |
| **Cable Type** | **Maximum Cable Length** | **Connector** |
| Category 5, 5e or 6 100-ohm UTP or STP | 100.m (328 ft) | RJ-45 |

**Table 6 Maximum 1000BASE-SX Gigabit Fiber Cable Length**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fiber Size** | **Fiber Bandwidth** | **Maximum Cable Length** | **Connector** |
| 62.5/125 micron multimode fiber | 160 MHz/km  200 MHz/km | 220 m (722 ft)  275 m (902 ft) | LC  LC |
| 50/125 micron multimode fiber | 400 MHz/km  500 MHz/km | 500 m (1641 ft)  550 m (1805 ft) | LC  LC |

**Table 7 Maximum 1000BASE-LX/LHX/XD/ZX Gigabit Fiber Cable Length**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fiber Size** | **Fiber Bandwidth** | **Maximum Cable Length** | **Connector** |
| 9/125 micron single-mode fiber 1310nm | N/A | 10km (6.2 miles) | LC |
| 9/125 micron single-mode fiber 1550nm | N/A | 30km (18.64 miles)  50km (31.06 miles) | LC  LC |

**Table 8 Maximum 1000BASE-LX Single Fiber Gigabit Fiber Cable Length**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fiber Size** | **Fiber Bandwidth** | **Maximum Cable Length** | **Connector** |
| Single-mode  TX-1310nm  RX-1550nm | N/A | 20km (12.42miles) | BIDI  LC |
| Single-mode  TX-1550nm  RX-1310nm | N/A | 20km (12.42miles) | BIDI  LC |