IPGS-5506A

Unmanaged GbE PoE+ Switch

Quick Installation and

Initial Configuration

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# Chapter 1 Introduction

## Overview

This user guide describes how to install, configure, and troubleshoot the IPGS-5506A, 6 Ports Industrial unmanaged GbE PoE+ Switch.

By reading this user guide, users can perform the following tasks:

* To check the switch status by reading the LED behavior
* To reset the switch
* To install the switch
* To troubleshoot the switch

## Front View of the Switch

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**Figure 1: Front panel of the switch**

## Rear View of the Switch

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**Figure 2: Rear panel of the switch**

## Bottom View of the Switch

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**Figure 3: Bottom panel of the switch**

## LED Descriptions

The LEDs on the front panel provide users with switch status checking and monitoring. There are three types of LEDs as follows:

* **Power LEDs**

indicates if the switch is powered up correctly or not.

* **System LED**

indicates if the system is ready or not.

* **Port Status LEDs**

indicates the current status of each port. Users can check these LEDs to understand the port status.

The following table details the functions and descriptions of various LED indicators.

**Table 1: Power LEDs**

|  |  |  |  |
| --- | --- | --- | --- |
| **LED**  | **Color** | **State** | **Description** |
| Power1 | Green | On | The switch is powered ON correctly. |
| Off | The switch is not receiving power from power1. |
| Power2 | Green | On | The switch is powered ON correctly. |
| Off | The switch is not receiving power from power2. |

**Table 2: System LED**

|  |  |  |  |
| --- | --- | --- | --- |
| **LED**  | **Color** | **State** | **Description** |
| System | Green | On | The switch is ready. |
| Off | The switch is not ready. |

Users can check the port status by reading the LED behaviors per the table below.

**Table 3: Port Status LEDs**

|  |  |  |  |
| --- | --- | --- | --- |
| **LED** | **Color** | **State** | **Description** |
| RJ45 Ports(Left Side) | Green | On | The port is enabled and established a link to connected device, and the connection speed is 1000Mbps. |
| Green | Blinking | The port is transmitting/receiving packets, and the connection speed is 1000Mbps. |
| Amber | On | The port is enabled and established a link to connected device, and the connection speed is 10/100Mbps. |
| Amber | Blinking | The port is transmitting/receiving packets, and the connection speed is 10/100Mbps. |
| -- | Off | The port has no active network cable connected, or it is not established a link to connected device. Otherwise, the port may have been disabled through the switch user interface. |
| RJ45 Ports(Right Side) | Green | On | The port is enabled and supplying power to connected device. |
| Green | Blinking | An abnormal state, such as overload status, has been detected in the switch. |
| -- | Off | The port has no active network cable connected, or it is not connected a PoE PD device. Otherwise, the port may have been disabled through the switch user interface. |
| SFP Ports | Green | On | The port is enabled and established a link to connected device, and the connection speed is 1000Mbps. |
| Green | Blinking | The port is transmitting/receiving packets, and the connection speed is 1000Mbps. |
| Amber | On | The port is enabled and established a link to connected device, and the connection speed is 100Mbps. |
| Amber | Blinking | The port is transmitting/receiving packets, and the connection speed is 100Mbps. |
| -- | Off | The port has no active network cable connected, or it is not established a link to connected device. Otherwise, the port may have been disabled through the switch user interface. |

## Reset Button

By pressing the Reset Button for certain period of time, users can perform the following task.

* **Reset the Switch**

to reboot the switch.

# Chapter 2 Installing the Switch

## Package Contents

* The Switch
* Terminal Block
* Installation Guide
* Mounting kit

**Note**:

The switch is an indoor device. If you need to use it to connect outdoor devices such as outdoor IP cameras or outdoor WiFi Aps with cable, then you need to install an arrester on the cable between outdoor device and the switch.


**Fig. Addition an arrester between outdoor device and this switch**

## Mounting the Switch on a DIN Rail

**Step 1:** Attach the DIN Rail mounting kit to rear panel of the chassis. Insert screws and tighten then with a screwdriver to secure the kit.

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**Figure 4: Attaching DIN Rail Kit to the Switch**

**Step 2:** Insert the upper lip of the DIN rail into the DIN-rail mounting kit. And press the switch towards the DIN rail until it snaps into place.



**Figure 5: Insert switch to the DIN Rail**

**Step 3:** Make sure that the switch is attached securely to DIN Rail.

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**Figure 6: The switch is attached to DIN Rail**

## Mounting the Switch on Wall (Optional)

**Step 1:** Attach the wall mounting plates to rear panel of the chassis. Insert screws and tighten then with a screwdriver to secure the plates.

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**Figure 7: Attaching Wall Mounting Plates to the Switch**

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**Figure 8: The Dimension of Wall Mounting Plates**

**Step 2:** Install user-supplied screws on the appropriate location on the wall.

**Step 3:** Make sure that the switch is attached securely to wall.

## Connecting the DC Power Cord

**Step 1:** Insert the negative/positive DC wires into the V-/V+ terminals, respectively.

**Step 2:** To keep the DC wires from pulling loose, use a small flat-blade screwdriver to tighten the wire-clamp screws on the front of the terminal block connector.

**Step 3:** Insert the terminal block connector prongs into the terminal block receptor.

**Step 4:** Check the SYS LED. If it is ON, the power connection is correct.

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**Figure 9: Connecting DC power cord**

**FAULT:**

The two contacts of the terminal block connector are used to detect user-configured events. The two wires attached to the fault contacts form an open circuit when a user-configured event is triggered. If a user-configured event does not occur, the fault circuit remains closed.

## Installing SFP Modules

You can install or remove a mini-GBIC SFP module from a SFP port without having to power off the switch.

**Step 1:** Insert the module into the SFP port.

**Step 2:** Press firmly to ensure that the module seats into the connector.



**Figure 10: Installing a SFP Module into a SFP Port**

**Note**:

The SFP ports should use UL Listed Optional Transceiver product, Rated 3.3Vdc, Laser Class 1.

# Chapter 3 Troubleshooting

The following table provides information for users to easily troubleshoot problems by taking actions based on the suggested solutions within.

**Table 4: Troubleshooting Table**

|  |  |  |
| --- | --- | --- |
| **Symptoms** | **Possible Causes** | **Suggested Solutions** |
| System LED is Off | The switch is not receiving power. | 1. Check if correct power cord is connected firmly to the switch and to the DC outlet socket. 2. Perform power cycling the switch by unplugging and plugging the power cord back into the switch.3. If the LED is still off, try to plug power cord into different DC outlet socket to make sure correct DC source is supplied.  |
| Port (Left Side) Status LED is Off | The port is not connected or the connection is not working. | 1. Check if the cable connector plug is firmly inserted and locked into the port at both the switch and the connected device.2. Make sure the connected device is up and running correctly.3. If the symptom still exists, try different cable or different port, in order to identify if it is related to the cable or specific port. |
| Port (Right Side) Status LED is Off  | The port is not supplying power | 1. Check if the cable connector plug is firmly inserted and locked into the port at both the switch and the connected device.2. Make sure the correct Ethernet cables are used.3. If the symptom still exists, try different cable or different port, in order to identify if it is related to the cable or specific port. |