

# Quick Installation Guide

# IGPS-1080A

## Industrial Unmanaged Gigabit PoE Switch

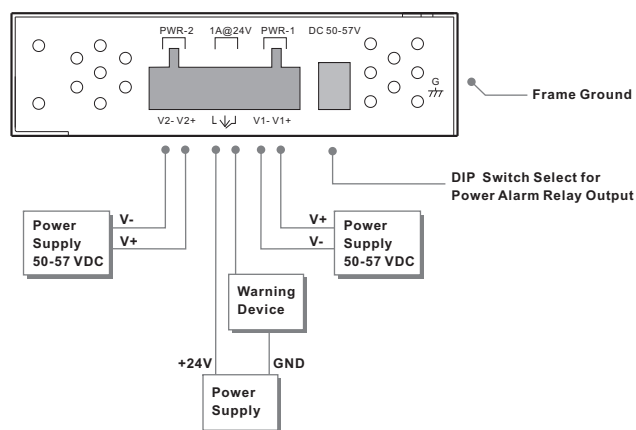
### Introduction

**IGPS-1080A** is unmanaged PoE Ethernet switch with P.S.E. function. **IGPS-1080A** supports Power over Ethernet, a system to transmit electrical power, along with data, to remote devices over standard twisted-pair cable in an Ethernet network. **IGPS-1080A** switch has 8X10/100/1000Base-T(X) P.S.E (Power Sourcing Equipment) ports. P.S.E. is a device (switch or hub for instance) that will provide power in a PoE setup. The wide operating temperature range from -40°C to 70°C can satisfy most of operating environment. Therefore, the switch is one of the most reliable choices for PoE Ethernet application.

### Features

- > Provide 8x10/100/1000Base-T(X) PoE (P.S.E.) ports
- > Support P.S.E. based on IEEE 802.3at standard up to 30 Watts per port
- > Support auto-negotiation and auto-MDI/MDI-X
- > Support store and forward transmission
- > Support flow control
- > Rigid IP-30 housing design
- > DIN-Rail and wall mounting enabled

### Power Connection Guide



● **DIP Switch Function**

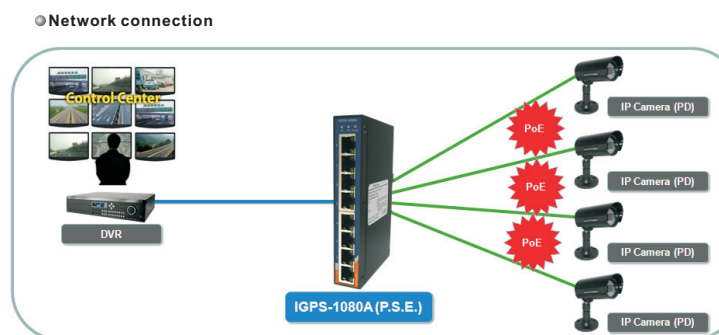
| DIP-1 | DIP-2 | Description                                 |
|-------|-------|---|
| OFF   | OFF   | Power failure relay alarm disabled          |
| ON    | OFF   | PWR-1 failure, relay alarm enabled          |
| OFF   | ON    | PWR-2 failure, relay alarm enabled          |
| ON    | ON    | PWR-1 or PWR-2 failure, relay alarm enabled |

### Specifications

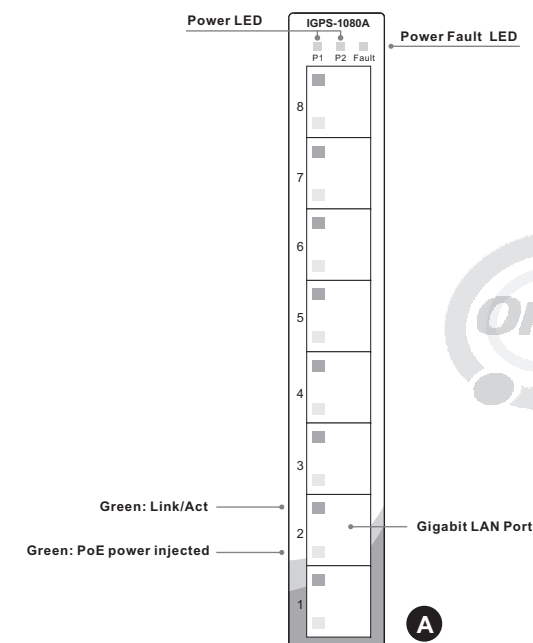
| ORing Switch Model                                     | IGPS-1080A   |
|--|--|
| <b>Physical Ports</b>                                  |  |
| 10/100/1000Base-T(X) P.S.E. Port in RJ45 Auto MDI/MDIX | 8  |
| <b>Technology</b>                                      |  |
| Ethernet Standards                                     | IEEE 802.3 for 10Base-T,<br>IEEE 802.3u for 100Base-TX<br>IEEE 802.3ab for 1000Base-T<br>IEEE 802.3x for Flow control<br>IEEE 802.3at PoE specification (up to 30 Watts per port for P.S.E.) |
| MAC Table  | 2048 MAC addresses   |
| <b>LED Indicators</b>                                  |  |
| Power indicator  | Green: Power LED x2  |
| Fault indicator  | Amber: Indicate PWR1 or PWR2 failure   |
| 10/100/1000Base-T(X) RJ45 port indicator               | Green for port Link/Act.<br>Green for PoE power injected.  |
| <b>DIP-Switch</b>                                      |  |
| DIP-Switch 1   | Power-1 failed warning : (ON) enable, (OFF) disable  |
| DIP-Switch 2   | Power-2 failed warning : (ON) enable, (OFF) disable  |
| <b>Fault contact</b>                                   |  |
| Relay  | Relay output to carry capacity of 1A at 24 VDC   |
| <b>Power</b>   |  |
| Redundant Input power                                  | Dual DC input 50-57VDC on 6-pin terminal block   |
| Power consumption(Typ.)                                | 8 Watts (Power device not included)  |
| Overload current protection                            | Present  |
| Reverse polarity protection                            | Not Present  |
| <b>Physical Characteristic</b>                         |  |
| Enclosure  | IP-30  |
| Dimension (W x D x H)                                  | 26.1(W)x94.9(D)x144.3(H) mm (1.03x3.74x5.68inch.)  |
| Weight (g)   | 390 g  |
| <b>Environmental</b>                                   |  |
| Storage Temperature                                    | -40 to 85°C (-40 to 185°F)   |
| Operating Temperature                                  | -40 to 70°C (-40 to 158°F)   |
| Operating Humidity                                     | 5% to 95% Non-condensing   |
| <b>Regulatory approvals</b>                            |  |
| EMI  | FCC Part 15, CISPR (EN55022) class A   |
| EMS  | EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11   |
| Shock  | IEC60068-2-27  |
| Free Fall  | IEC60068-2-32  |
| Vibration  | IEC60068-2-6   |
| Safety   | EN60950-1  |
| <b>Warranty</b>  | 5 years  |

### Practical Operation

**IGPS-1080A** can be used in connecting several PoE P.D. Ethernet devices like IP-Camera or other Ethernet devices. In addition, there are two different power inputs at terminal block to avoid interruption caused by power down. When the primary DC power input fails, the backup power input will take over immediately to guarantee a non-stop operation.



### Practical Operation



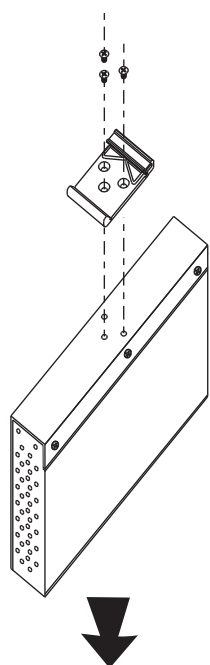
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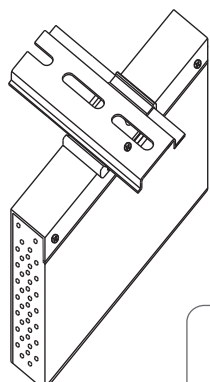
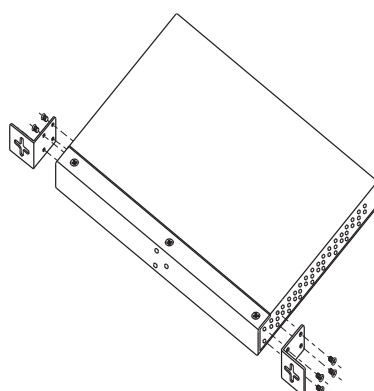
### Industrial Unmanaged Gigabit PoE Switch

#### Installation

##### DIN-Rail Install Step



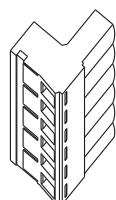
##### Wall-mounted Install Step



**ORing** ORing Industrial Networking Corp.  
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 TEL: +886-2-2918-3036 Website: www.oring-networking.com  
 FAX: +886-2-2918-3084 E-mail: support@oring-networking.com

#### Accessory

##### ① 6-Pin Terminal block



##### ② Dust Cover (RJ-45)



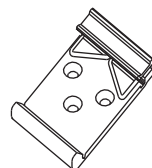
##### ③ Round Screw (M3 X3)



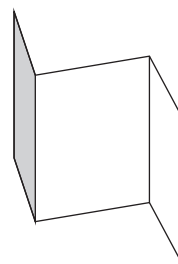
##### ④ Wall-mounted kit (for Slim Type)



##### ⑤ 25mm DIN-Rail kit



##### ⑥ QIG



#### Packing list

| Model name | Front Panel: | Model Description  | Accessory                    |
|------------|--------------|--|------------------------------|
| IGPS-1080A | <b>A</b>     | Industrial 8-port slim type unmanaged Gigabit PoE Ethernet switch with 8x10/100/1000Base-T(X) P.S.E. | ⊙X1, ⊙X8, ⊙X8, ⊙X2, ⊙X1, ⊙X1 |

#### Communication Connections

##### 1000Base-T Ethernet Connection

###### RJ45 (8-pin, MDI) Port Pinouts

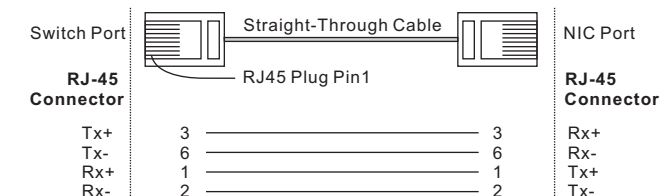
| Pin | MDI    |
|-----|--------|
| 1   | BI_DA+ |
| 2   | BI_DA- |
| 3   | BI_DB+ |
| 4   | BI_DC+ |
| 5   | BI_DC- |
| 6   | BI_DB- |
| 7   | BI_DD+ |
| 8   | BI_DD- |

###### RJ45 (8-pin, MDI-X) Port Pinouts

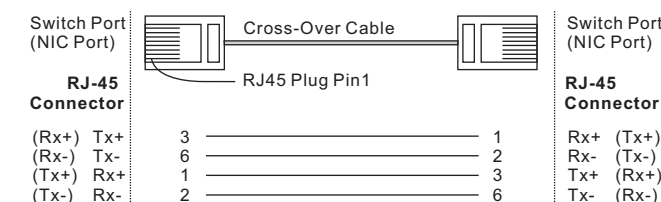
| Pin | MDI-X  |
|-----|--------|
| 1   | BI_DB+ |
| 2   | BI_DB- |
| 3   | BI_DA+ |
| 4   | BI_DD+ |
| 5   | BI_DD- |
| 6   | BI_DA- |
| 7   | BI_DC+ |
| 8   | BI_DC- |

##### 10/100Base-T(X) Ethernet Connection

###### RJ45 (8-pin) to RJ45 (8-Pin) Straight-Through Cable Wiring



###### RJ45 (8-pin) to RJ45 (8-Pin) Cross-Over Cable Wiring



##### RJ45 Pin Definition

| RJ45 Pin Definition |               |
|---------------------|---------------|
| Pin No.             | Description   |
| # 1                 | Rx+ with Vdc+ |
| # 2                 | Rx- with Vdc+ |
| # 3                 | Tx+ with Vdc- |
| # 6                 | Tx- with Vdc- |