

# IPS-1080A

➤ **Industrial 8-port slim type unmanaged PoE Ethernet switch with 8x10/100Base-T(X) P.S.E.**

## Features

- Provide 8x10/100Base-T(X) PoE (P.S.E.) ports
- Supports IEEE 802.3at compliant PoE and total power budget is 180Watts with maximum 30Watts per port
- Support auto-negotiation and auto-MDI/MDI-X
- Support store and forward transmission
- Support flow control
- Warning system by relay output
- Slim type rigid IP-30 housing design
- DIN-Rail and wall mounting enabled

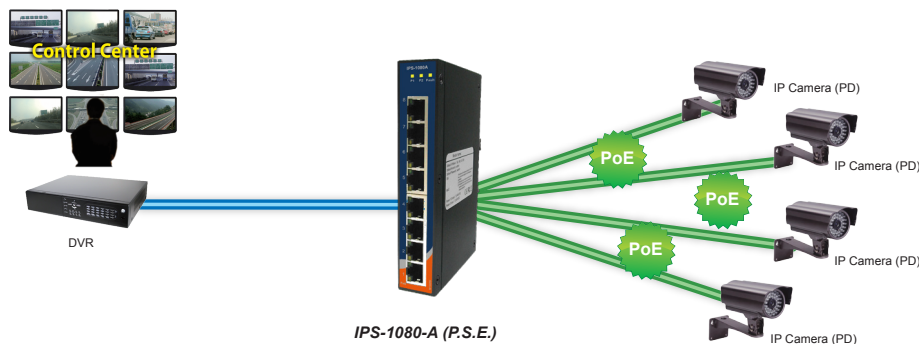


## Introduction

IPS-1080A is slim type unmanaged PoE Ethernet switch with P.S.E. function. IPS-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. IPS-1080A switch has 8X10/100Base-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 to 70°C can satisfy most of operating environment. Therefore, the switch is one of the most reliable choices for PoE Ethernet application.

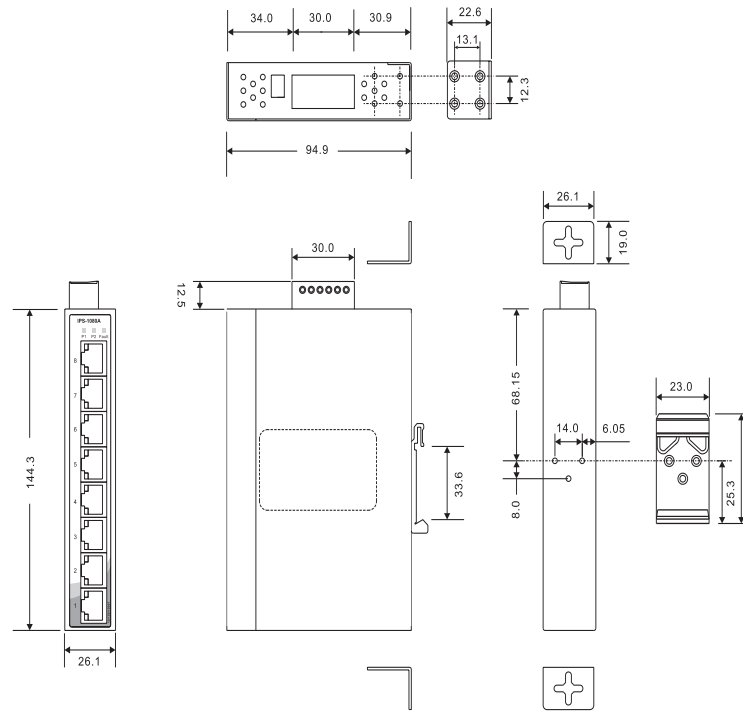
## Practical Operation

IPS-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.



Connections of Ethernet devices

## Dimensions



(Unit=mm)

## PoE Pin Assignment

| 10/100Base-T(X) P.S.E. RJ-45 Port |                            |
|-----------------------------------|----------------------------|
| RJ-45 Pin Definition              |                            |
| Pin No.                           | Description                |
| #1                                | TD+ with PoE Power input + |
| #2                                | TD- with PoE Power input + |
| #3                                | RD+ with PoE Power input - |
| #6                                | RD- with PoE Power input - |

## Specifications

| ORing Switch Model                                      | IPS-1080A  |
|---|--|
| <b>Physical Ports</b>                                   |  |
| 10/100Base-T(X) Ports in RJ45 Auto MDI/MDIX with P.S.E. | 8  |
| <b>Technology</b>                                       |  |
| Ethernet Standards                                      | IEEE 802.3 for 10Base-T<br>IEEE 802.3u for 100Base-TX<br>IEEE 802.3x for Flow control<br>IEEE 802.3at PoE specification (total power budget is 180Watts with maximum 30Watts per port) |

|   |  |
|---|--|
| MAC Table   | 2048 MAC addresses   |
| Processing  | Store-and-Forward  |
| <b>LED Indicators</b>                                 |  |
| Power indicator                                       | Green : Power LED x 2  |
| Fault indicator                                       | Amber : Indicates PWR1 or PWR2 failure occurred  |
| 10/100Base-T(X) RJ45 Port Indicator and PoE 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 24VDC  |
| <b>Power</b>  |  |
| Redundant Input power                                 | Dual DC inputs. 50~57VDC on 6-pin terminal block.  |
| Power consumption (Typ.)                              | 4.5 Watts (power consumption of P.S.E. is not included)  |
| Overload current protection                           | Present  |
| Reverse polarity protection                           | NOT Present  |
| <b>Physical Characteristics</b>                       |  |
| Enclosure   | IP-30  |
| Dimensions (W x D x H)                                | 26.1 (W) x 94.9 (D) x 144.3 (H) mm   |
| Weight (g)  | 412 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  |
| Warranty  | 5 years  |

### Ordering Information

**IPS-1 AA BA**

| Code Definition | 10/100 Base-T(X) P.S.E. Port Number | Additional Port Number |
|-----------------|-------------------------------------|------------------------|
| <b>Option</b>   | - <b>08</b> : 8 ports               | - <b>0</b> : 0 ports   |

| Available Model | Model Name | Description   |
|-----------------|------------|---|
|                 | IPS-1080A  | Industrial 8-port slim type unmanaged PoE Ethernet switch with 8x10/100Base-T(X) P.S.E. |

|   |  |
|---|--|
| <b>Packing List</b> <ul style="list-style-type: none"> <li>IPS-1080A</li> <li>DIN-Rail Kit</li> <li>Wall-mount Kit</li> <li>Quick Installation Guide</li> </ul> | <b>Optional Accessories (Can be purchased separately)</b> <ul style="list-style-type: none"> <li>DR-75-48 : 75 Watts@48VDC DIN-Rail power supply</li> <li>DR-120-48 : 120 Watts@48VDC DIN-Rail power supply</li> <li>SDR-240-48 : 240 Watts@48VDC DIN-Rail power supply</li> <li>SDR-480-48 : 480 Watts@48VDC DIN-Rail power supply</li> </ul> |
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