IPS-1080A

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Industrial Ethernet Switch

❯ *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
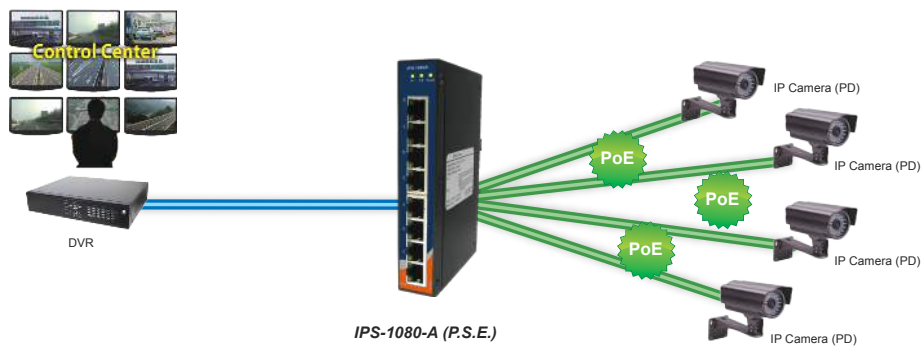- DIN-Rail and wall mounting enabled

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.
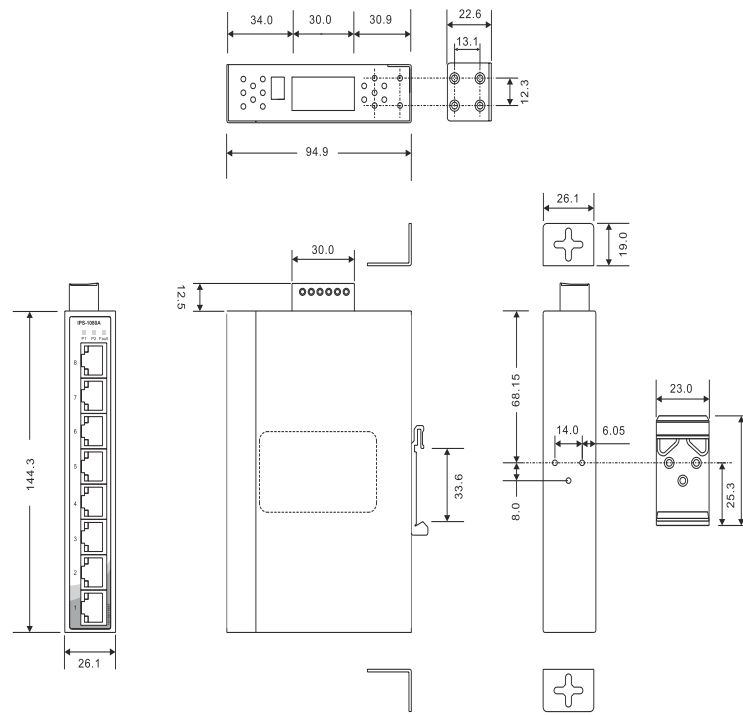
Practical Operation

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.

IPS-1080-A (P.S.E.)

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

Industrial
Ethernet Switch

Industrial
Media Converter

Industrial
Device Server

Industrial Wireless
Access Point

Industrial Cellular
VPN Router

Industrial
M2M Gateway

Accessories

Network
Management Software

MAC Table	2048 MAC addresses
Processing	Store-and-Forward
LED Indicators	
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. Green for PoE power injected.
DIP-Switch	
DIP-Switch 1	Power-1 failed warning : (ON) enable, (OFF) disable
DIP-Switch 2	Power-2 failed warning : (ON) enable, (OFF) disable
Fault contact	
Relay	Relay output to carry capacity of 1A at 24VDC
Power	
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
Physical Characteristics	
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
Environmental	
Storage temperature	–40 to 85℃ (–40 to 185℉)
Operating temperature	–40 to 70℃ (–40 to 158℉)
Operating humidity	5% to 95% Non-condensing
Regulatory Approvals	
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 B A

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

Packing List
- IPS-1080A
- DIN-Rail Kit
- Wall-mount Kit
- Quick Installation Guide

Optional Accessories (Can be purchased separately)
- DR-75-48 : 75 Watts@48VDC DIN-Rail power supply
- DR-120-48 : 120 Watts@48VDC DIN-Rail power supply
- SDR-240-48 : 240 Watts@48VDC DIN-Rail power supply
- SDR-480-48 : 480 Watts@48VDC DIN-Rail power supply