



IGPS-1080-24V

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Industrial 8-port unmanaged Gigabit PoE Ethernet switch with 8x10/100/1000Base-T(X) P.S.E., 24VDC power inputs

Features

- IGPS-1080-24V provides 8x10/100/1000Base-T(X) PoE (P.S.E.) ports
- Supports IEEE 802.3at compliant PoE and total power budget is 120Watts with maximum 30 Watts per port
- Supports dual wide range 12~36VDC power inputs for power redundancy
- Supports auto-negotiation and auto-MDI/MDI-X
- Supports store-and-forward transmission
- Supports flow control
- Rigid IP-30 housing design
- DIN-Rail and wall mounting enabled

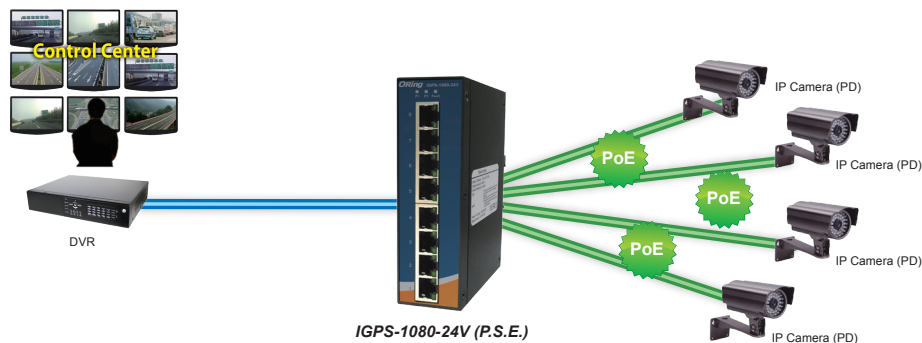


Industrial Ethernet Switch

Introduction

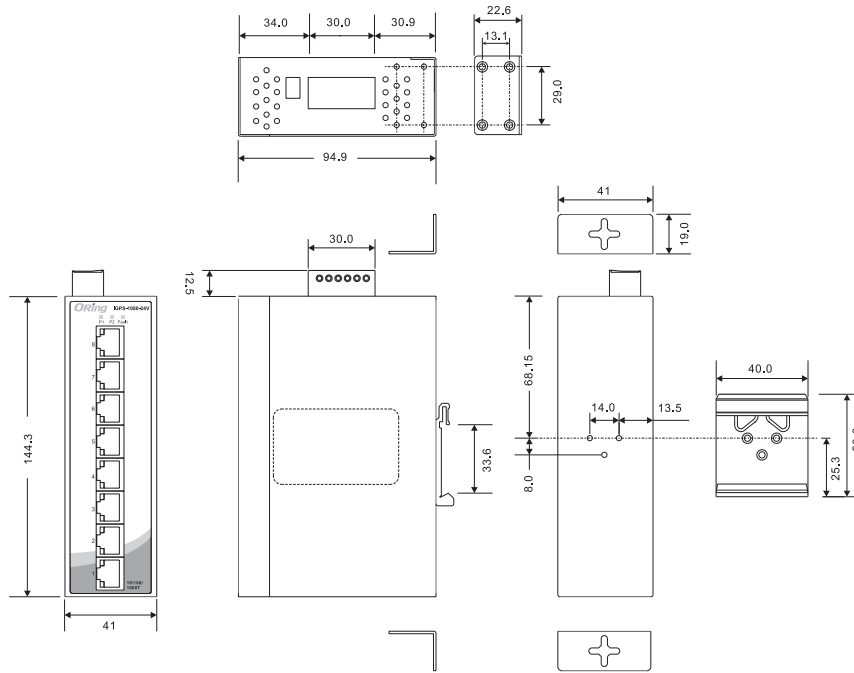
IGPS-1080-24V is the unmanaged Gigabit PoE Ethernet switch with P.S.E. function and relay output of 24VDC at 1A. IGPS-1080-24V supports Power over Ethernet, a system to transmit electrical power, along with data, to remote devices over standard twisted-pair cable in an Ethernet network. IGPS-1080-24V supports wide-range 12~36VDC power inputs and generates 50VDC P.S.E. power output per port. IGPS-1080-24V PoE switch has 8 x 10/100/1000Base-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 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



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 -

1000Base-T P.S.E. RJ-45 Port	
RJ-45 Pin Definition	
Pin No.	Description
#1	BI_DA+ with PoE Power input +
#2	BI_DA- with PoE Power input +
#3	BI_DB+ with PoE Power input -
#4	BI_DC+
#5	BI_DC-
#6	BI_DB- with PoE Power input -
#7	BI_DD+
#8	BI_DD-

Specifications

ORing Switch Model	IGPS-1080-24V
Physical Ports	
10/100/1000Base-T(X) Ports in RJ45 with P.S.E.	8
Technology	
Ethernet Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.3x for Flow control IEEE 802.3at compliant PoE specification (up to 30 Watts per port for P.S.E.) 12~24VDC : PoE output 60Watts Max 24~36VDC : PoE output 120Watts Max
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
10/100/1000Base-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. 12~36VDC on 6-pin terminal block.
Power consumption (Typ.)	7.8 Watts
Overload current protection	Present
Reverse polarity protection	NOT Present
Physical Characteristics	
Enclosure	IP-30
Dimensions (W x D x H)	41(W) x 94.9(D) x 144.3(H) mm
Weight (g)	452 g
Environmental	
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
Regulatory Approvals	
EMI	FCC Part 15, CISPR (EN55022) class A, E-MARK
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
MTBF(Hours) (MIL-HDBK-217F2, GB, GC, 25°C)	123,291
Warranty	5 years

Ordering Information

IGPS-1 AA B -24V

Code Definition	10/100/1000Base-T(X) P.S.E. Port Number	Additional Port Number
Option	- 08: 8 ports	- 0: 0 ports

Available Model	Model Name	Description
	IGPS-1080-24V	Industrial 8-port unmanaged Gigabit PoE Ethernet switch with 8x10/100/1000Base-T(X) P.S.E., 24VDC power inputs

Packing List

- IGPS-1080-24V
- DIN-Rail Kit
- Wall-mount Kit
- Quick Installation Guide

Optional Accessories (Can be purchased separately)

- DR-45-12/24 : 45 Watts@12/24VDC DIN-Rail power supply
- DR-75-12/24 : 75 Watts@12/24VDC DIN-Rail power supply
- DR-120-12/24 : 120 Watts@12/24VDC DIN-Rail power supply