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Industrial Ethernet Switch

IGPS-1080-24V

IGPS-1080-24V

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

Features

- IGPS-1080-24V provide 8x10/100/1000Base-T(X) PoE (P.S.E.) ports
- Supports IEEE 802.3at compliant PoE and total power budget is 120Watts with maximum 30Watts per port
- Supports jumbo frame up to 9KBytes
- Support dual wide range 12~57VDC power inputs for power redundancy
- 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

Full Gigabit | P.S.E PoE | Redundant PWR | -40~75°C Temperature

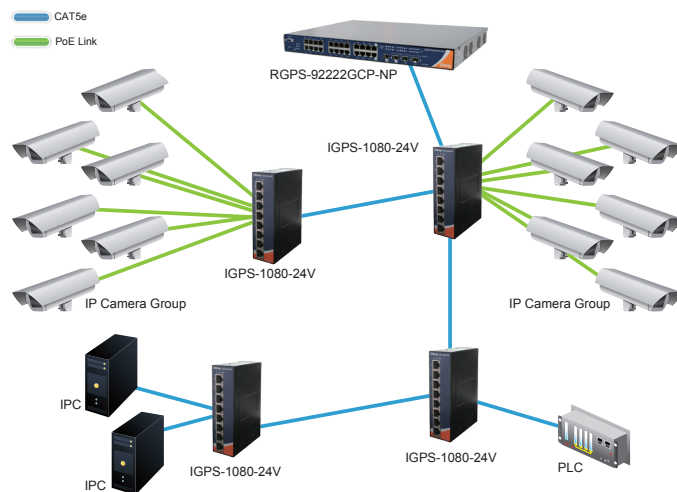E24 10R-030719   RoHS   Lead Free   CE   FC

Introduction

IGPS-1080-24V is an unmanaged Gigabit PoE Ethernet switch with P.S.E. function. 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 12~57VDC power inputs and generates 50VDC P.S.E. power output per port. IGPS-1080-24V PoE 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 75°C can satisfy most of operating environment. Therefore, the switch is one of the most reliable choices for PoE Ethernet application.
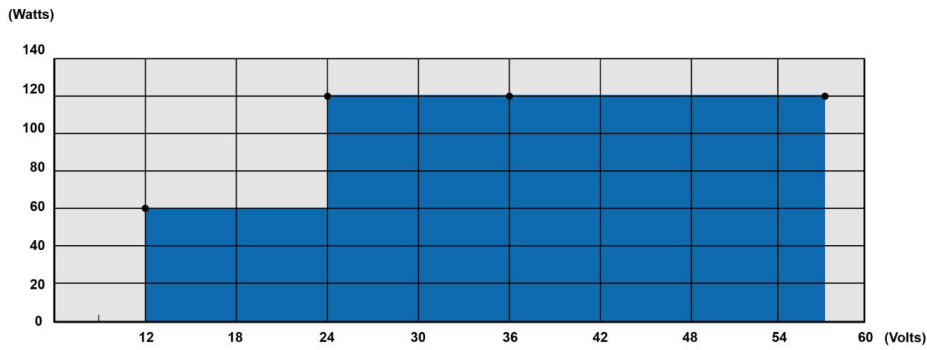
Practical Operation

IGPS-1080-24V 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.
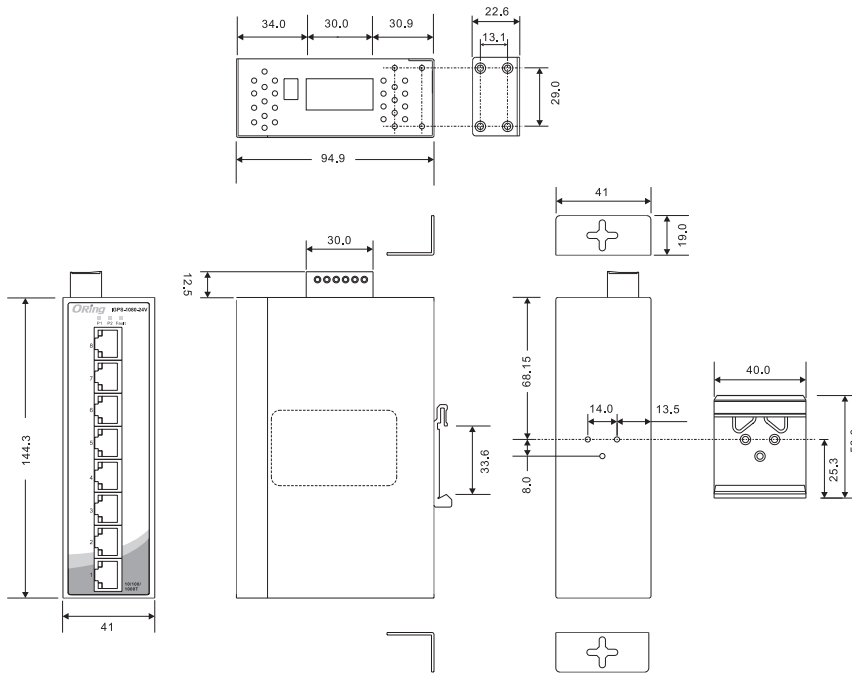

Connections of Ethernet devices

Industrial Ethernet Switch DIN-Rail Unmanaged Gigabit PoE Ethernet Switch

v1.7 / Apr, 2016

Industrial
Ethernet Switch

Industrial
Media Converter

Industrial
Device Server

Industrial Wireless
Access Point

Industrial Cellular
VPN Router

Industrial
M2M Gateway

Accessories

Network
Management Software

Diagram of PoE Output

(Watts)

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-

1 Industrial Ethernet Switch

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 60W Max.
	    24 ~ 57VDC : PoE output 120W Max.

MAC Table	4K MAC addresses
Processing	Store-and-Forward
Jumbo Frame	Up to 9KBytes
LED Indicators	
Power indicator	Green : Power LED x 2
Fault indicator	Amber : Indicate PWR1 or PWR2 failure
10/100/1000Base-T(X) RJ45 port indicator and PoE indicator	Green for port Link/Act at 1000Mbps / Amber for port Link/Act at 10/100Mbps 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. 12~57VDC on 6-pin terminal block.
PoE Power Budget	60 Watts (12~24VDC) / 120 Watts (24~57VDC)
Power consumption (Typ.)	6 Watts, (PoE output not included)
Overload current protection	Present
Reverse polarity protection	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)	643 g
Environmental	
Storage temperature	-40 to 85℃ (-40 to 185°F)
Operating temperature	-40 to 75°C (-40 to 167°F)
Operating humidity	5% to 95% Non-condensing
Regulatory Approvals	
EMC	EN 55022, EN 55024(CE EMC), FCC Part 15 B, EN 61000-3-2, EN 61000-3-3
EMI	CISPR 22, EN 55022, FCC Part 15 B class A
EMS	IEC 61000-4-2 (ESD), IEC 61000-4-3 (RS), IEC 61000-4-4 (EFT), IEC 61000-4-5 (Surge), IEC 61000-4-6 (CS), IEC 61000-4-8 (PFMF), IEC 61000-4-11 (DIP)
Shock	IEC 60068-2-27

Free Fall	IEC 60068-2-31
Vibration	IEC 60068-2-6
Safety	EN 60950-1
Other	IEC 60945, EN 60945, E-Mark
MTBF	699914 hours
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)
- SFP100 series : 100Mbps SFP optical transceiver
- DR/SDR/DRP Series DIN-Rail power supply
- SFP 1G series : 1Gbps SFP optical transceiver

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