



IGPS-1080-24V-I

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

Features

- IGPS-1080-24V-I 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 Isolation protection from power input to RJ45 port and support up to 1500VDC isolation level
- Supports jumbo frame up to 9720 Bytes
- Supports dual 24VDC 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



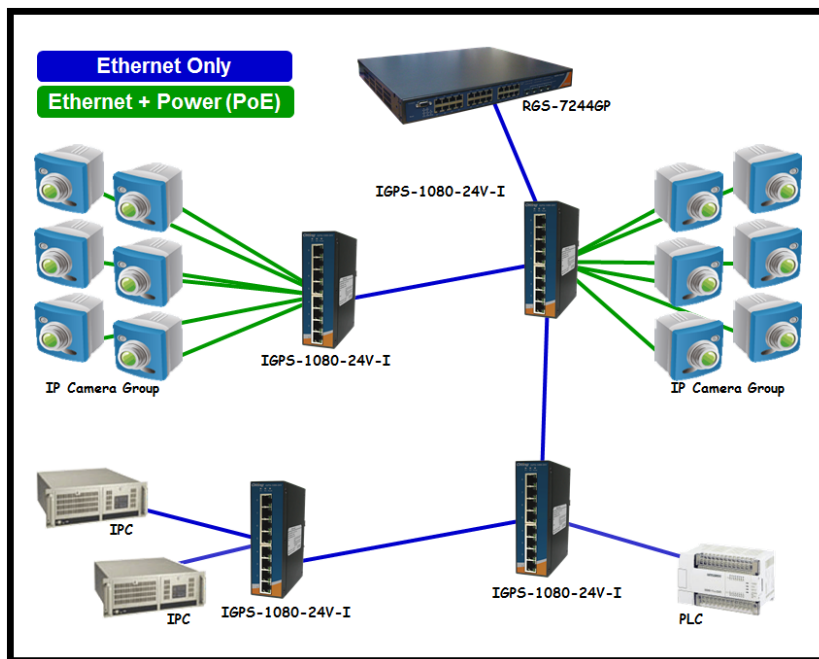
Introduction

IGPS-1080-24V-I is an unmanaged Gigabit PoE Ethernet switch with P.S.E. function. IGPS-1080-24V-I 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-I support dual 24VDC power inputs and generates 50VDC P.S.E. power output per port. IGPS-1080-24V-I 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

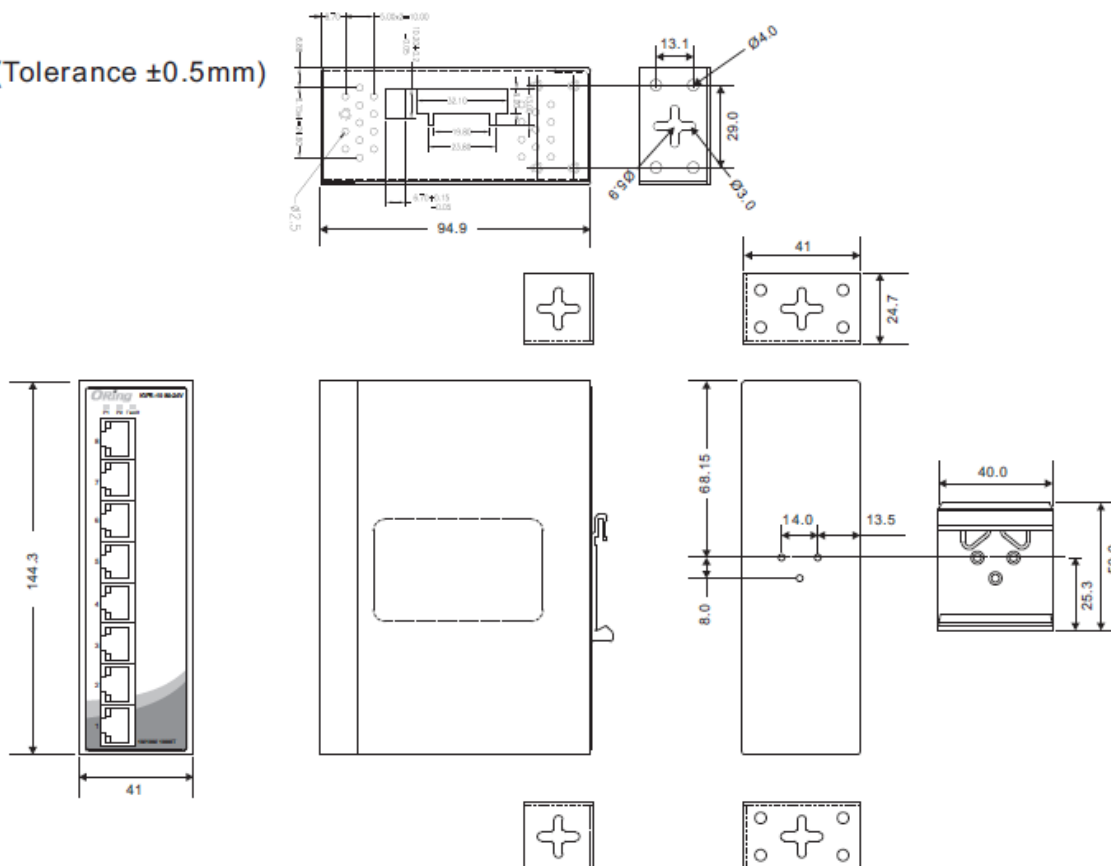
IGPS-1080-24V-I can be used in connecting several PoE P.D. Ethernet devices like IP-Camera or other Ethernet devices. In addition, there are two different power inputs at terminal block to avoid interruption caused by power down. When the primary DC power input fails, the backup power input will take over immediately to guarantee a non-stop operation.





Connections of Ethernet devices

Dimension

Unit =mm (Tolerance $\pm 0.5\text{mm}$)

PoE Pin Definition

- 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-I
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.)
MAC Table	4K MAC addresses
Processing	Store-and-Forward
Packet buffer size	192K Bytes
Switch Latency	<7us
Switching Bandwidth	16Gbps
Jumbo Frame	Up to 9720Bytes
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	Upper for Link/Act indicator, Green for 1G, Amber for 10/100Mbps Lower for PoE indicator, Green for PoE power injected.
DIP-Switch	
DIP-Switch 1	Power-2 failed warning: (ON) enable, (OFF) disable
DIP-Switch 2	Power-1 failed warning: (ON) enable, (OFF) disable
Fault contact	
Relay	Relay output to carry capacity of 1A at 24VDC
Isolation Level	
Power to RJ45	1500 VDC
Power	
Redundant Input power	Dual DC inputs 24~36VDC on 6-pin terminal block
PoE output power	120 Watts
Power consumption (Typ.)	13 Watts
Overload current protection	Present
Reverse polarity protection	Present
Physical Characteristic	
Enclosure	IP-30
Dimension (W x D x H)	41 (W) x 94.9 (D) x 144.3(H) mm
Weight (g)	686 g
Environmental	
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Temperature	-40 to 75°C (-40 to 167°F)
Operating Humidity	5% to 95% Non-condensing
Regulatory approvals	
EMC	CE EMC (EN 55024, EN 55032), FCC Part 15 B
EMI	EN 55032, CISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 15 B class A
EMS	EN 55024 (IEC/EN 61000-4-2(ESD), IEC/EN 61000-4-3 (RS), IEC/EN 61000-4-4(EFT), IEC/EN 61000-4-5 (Surge), IEC/EN 61000-4-6 (CS), IEC/EN 61000-4-8(PFMF), IEC/EN 61000-4-11(DIP))
Shock	IEC60068-2-27
Free Fall	IEC60068-2-31
Vibration	IEC60068-2-6
Safety	EN60950-1
MTBF	501008hrs
Warranty	5 years

Note : HW version 5.0



Ordering Information

IGPS-1**AA****B**-24V-I

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

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

Packing List

- IGPS-1080-24V-I x 1
- Din-Rail Kit x 1
- Wall-Mount Kit x 1
- Quick Installation Guide x 1

Optional Accessories

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

