



IGPS-1042GP-24V

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➔ **Industrial 6-port unmanaged Gigabit PoE Ethernet switch with 4x10/100/1000Base-T(X) P.S.E. and 2x100/1000Base-X, SFP socket, 24VDC power input**

## Features

- IGPS-1042GP-24V provide 4x10/100/1000Base-T(X) PoE (P.S.E.) ports
- Supports P.S.E. based on IEEE 802.3at standard up to 30 Watts per port and total power budget is 120Watts.
- Advanced PoE power boost technology to support dual 24VDC power inputs
- Supports Jumbo frame up to 10KBytes
- SFP port supports 100Base-FX and 1000Base-X speed
- 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

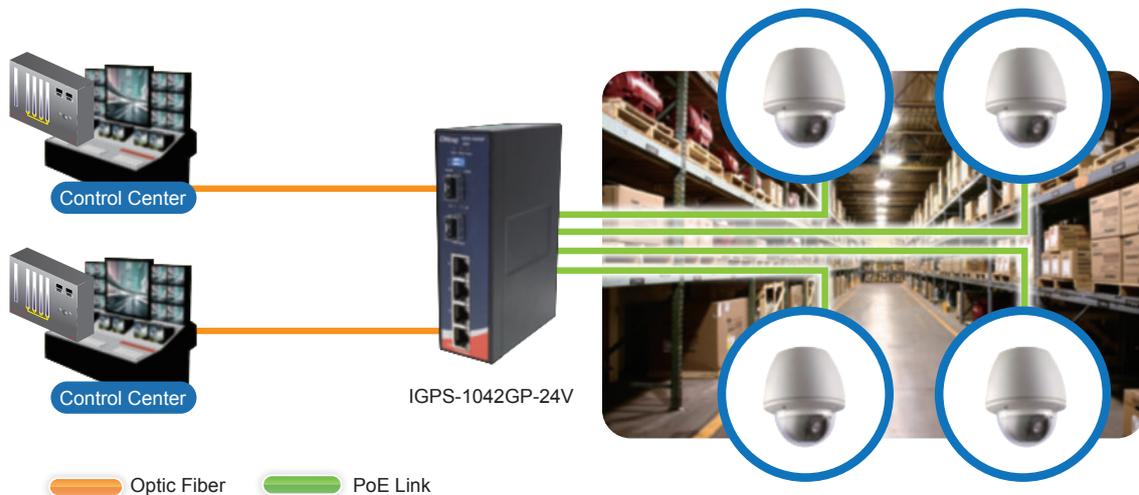


## Introduction

IGPS-1042GP-24V is an unmanaged PoE Ethernet switch with P.S.E. function. IGPS-1042GP-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-1042GP-24V has 4x10/100/1000Base-T(X) P.S.E. (Power Sourcing Equipment) ports and 2x100/1000Base-X SFP port. The SFP port optical network speed can be set by changing the settings of the DIP-Switch below. 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-1042GP-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.



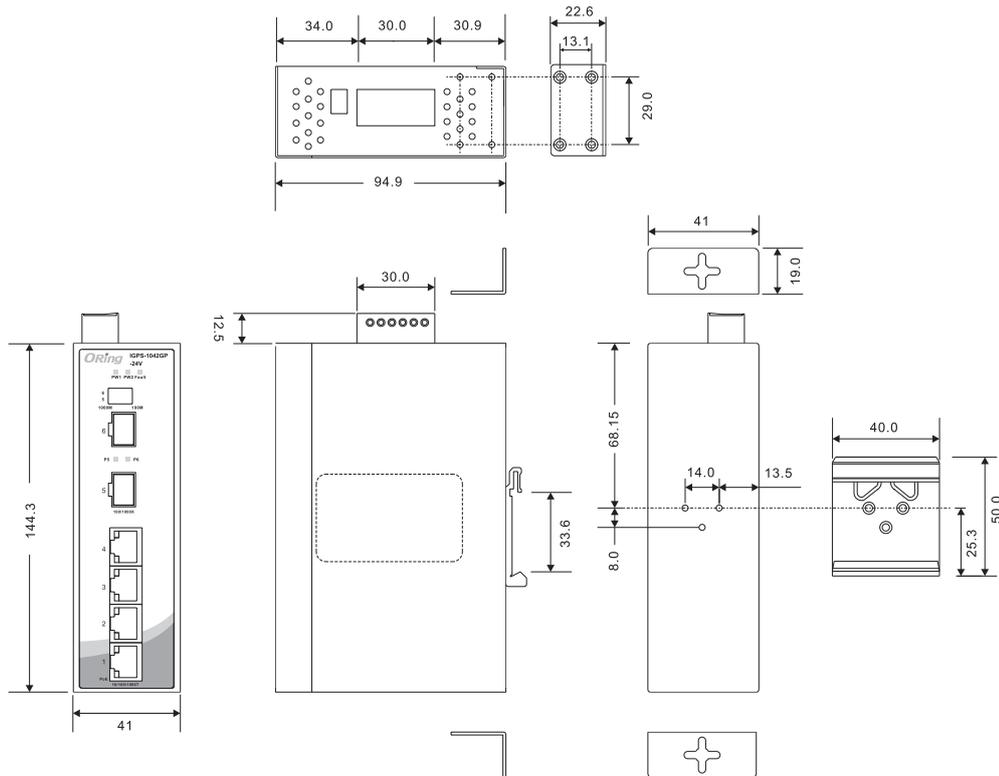
Connections of Ethernet devices

## 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-

## Dimensions



(Unit=mm)

## Specifications

ORing Switch Model	IGPS-1042GP-24V
<b>Physical Ports</b>	
10/100/1000Base-T(X) Ports in RJ45 with P.S.E. Auto MDI/MDIX	4
100/1000Base-X SFP port	2
<b>Technology</b>	
Ethernet Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.3z for 1000Base-X IEEE 802.3x for Flow control IEEE 802.3at PoE specification (up to 30 Watts per port for P.S.E.)
MAC Table	1K MAC addresses
Processing	Store-and-Forward
Jumbo Frame	Up to 10K Bytes
<b>LED Indicators</b>	
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 (P1 ~ P4)	Green for port Link/Act. Green for power injected.
100/1000Base-X SFP port indicator	Green for port Link/Act.
<b>SFP Speed DIP-Switch</b>	
DIP-Switch 1/2	DIP-Switch 1 (ON) and DIP-Switch 2 (ON) : SFP speed setting to 100Mbps DIP-Switch 1 (OFF) and DIP-Switch 2 (OFF) : SFP speed setting to 1000Mbps
<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. 12~57VDC on 6-pin terminal block.
PoE Power Budget	60Watts at 12VDC / 120Watts(24~57VDC)
Power consumption (Typ.)	7 Watts (power device not included)
Overload current protection	Present
Reverse polarity protection	Present
<b>Physical Characteristics</b>	
Enclosure	IP-30
Dimensions (W x D x H)	41 (W) x 94.9 (D) x 144.3(H) mm (1.61 x 3.74 x 5.68 inches)
Weight (g)	650 g
<b>Environmental</b>	
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
<b>Regulatory Approvals</b>	
EMC	EN 55032, EN 55024(CE EMC), FCC Part 15 B, EN 550121-1, EN 50121-3-2(EN50155), EN 61000-3-2, EN 61000-3-3
EMI	CISPR 32, EN 55032, FCC Part 15 B class A, C-Tick

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
MTBF	833512 hours
Warranty	5 years

## Ordering Information

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

Code Definition	10/100/1000Base-T(X) P.S.E. Port Number	Additional Port Number	Additional Port Type
<b>Option</b>	- <b>4</b> : 4 ports	- <b>2</b> : 2 port	- <b>GP</b> : 100/1000Base-X SFP

Available Model	Model Name	Description
	IGPS-1042GP-24V	Industrial 6-port unmanaged Gigabit PoE Ethernet switch with 4x10/100/1000Base-T(X) P.S.E and 2x100/1000Base-X, SFP socket, 24VDC power inputs
<b>Packing List</b>		<b>Optional Accessories (Can be purchased separately)</b>
<ul style="list-style-type: none"> <li>IGPS-1042GP-24V</li> <li>DIN-Rail Kit</li> <li>Wall-mount Kit</li> <li>Quick Installation Guide</li> </ul>		<ul style="list-style-type: none"> <li>SFP100 series : 100Mbps SFP optical transceiver</li> <li>DR/SDR/DRP 48V Series DIN-Rail power supply</li> <li>SFP 1G series : 1Gbps SFP optical transceiver</li> </ul>

- Industrial Ethernet Switch
- Industrial Media Converter
- Industrial Device Server
- Industrial Wireless Access Point
- Industrial Cellular VPN Router
- Industrial M2M Gateway
- Accessories
- Network Management Software