

# 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 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
- Advanced PoE power boost technology to support dual 24VDC power inputs
- 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

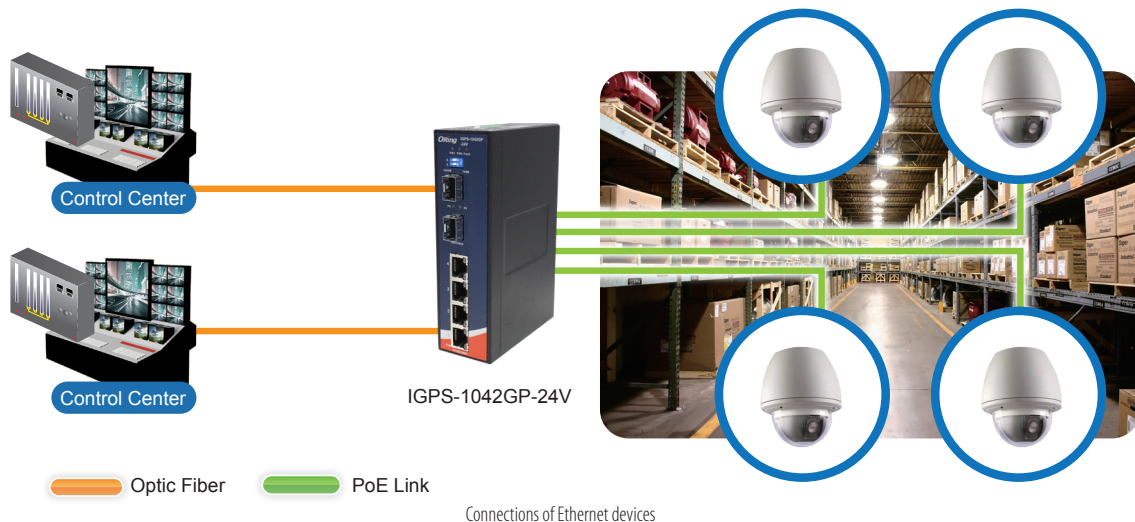


## Introduction

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 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

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.

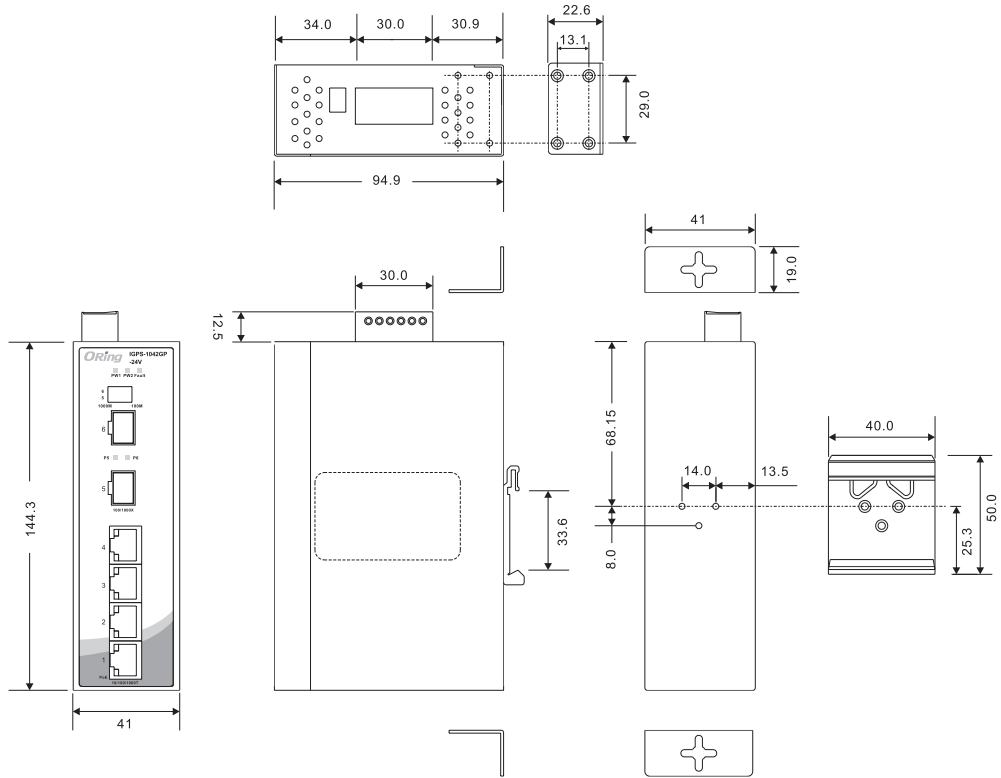


## PoE Pin Definition

| 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<br>IEEE 802.3u for 100Base-TX<br>IEEE 802.3ab for 1000Base-T<br>IEEE 802.3z for 1000Base-X<br>IEEE 802.3x for Flow control<br>IEEE 802.3at PoE specification (up to 30 Watts per port for P.S.E.) |
| MAC Table  | 1K MAC addresses  |
| Processing   | Store-and-Forward   |
| <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.<br>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<br>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. 24~36VDC on 6-pin terminal block.   |
| Power consumption (Typ.)   | 6.5 Watts   |
| Overload current protection  | Present   |
| Reverse polarity protection  | <b>Not Present</b>  |
| <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)   | 540 g   |
| <b>Environmental</b>   |   |
| 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  |
| <b>Regulatory Approvals</b>  |   |
| 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

**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> <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> |                 | <b>Optional Accessories (Can be purchased separately)</b> <ul style="list-style-type: none"> <li>SFP100 series : 100Mbps SFP optical transceiver</li> <li>SFP 1G series : 1Gbps SFP optical transceiver</li> </ul> |