# IGPS-1041GTA

## *Industrial 5-port slim type unmanaged Gigabit PoE Ethernet switch with 4x10/100/1000Base-T(X) P.S.E. and 1x10/100/1000Base-T(X)*

### Features

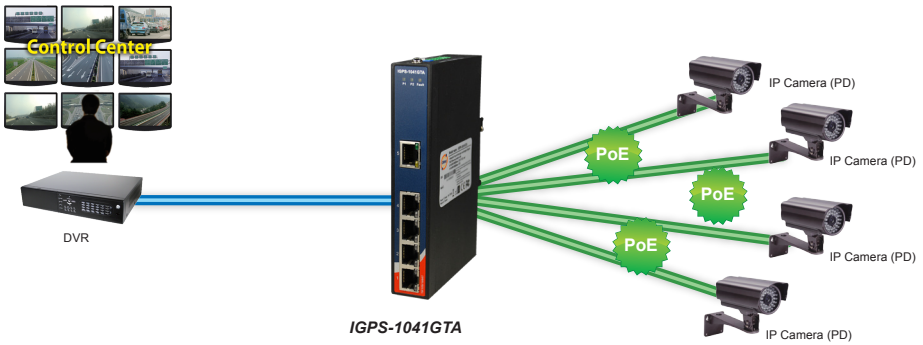
- IGPS-1041GTA provides 4x10/100/1000Base-T(X) PoE (P.S.E.) ports
- Supports P.S.E. based on IEEE 802.3at standard for up to 30 Watts per port
- Supports auto-negotiation and auto-MDI/MDI-X
- Supports store-and-forward transmission
- Supports flow control
- Rigid IP-30 housing design
- DIN-Rail and wall mounting enabled

### Introduction

IGPS-1041GTA is an unmanaged PoE Ethernet switch with P.S.E. function. IGPS-1041GTA support 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-1041GTA has 4x10/100/1000Base-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 70°C can satisfy most of operating environment. Therefore, the switch is one of the most reliable choices for PoE Ethernet application.

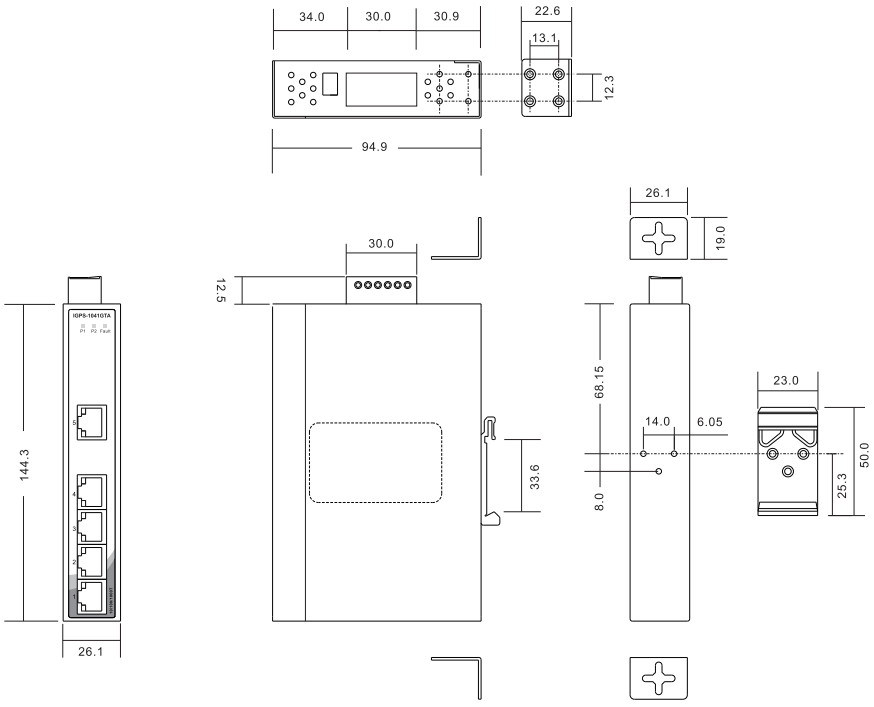
### Practical Operation

IGPS-1041GTA can be used in connecting several PoE P.D. Ethernet devices like IP-Cameras 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

## 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-1041GTA |
|---|---|
| **Physical Ports** | |
| 10/100/1000Base-T(X) Ports in RJ45 Auto MDI/MDIX | 1 |
| 10/100/1000Base-T(X) Ports in RJ45 with P.S.E. | 4 |
| **Technology** | |
| Ethernet Standards | IEEE 802.3 for 10Base-T<br>IEEE 802.3u for 100Base-TX<br>IEEE 802.3ab for 1000Base-T<br>IEEE 802.3x for Flow control<br>IEEE 802.3at PoE specification (up to 30 Watts per port for P.S.E.) |
| MAC Table | 8K 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 (P1 ~ P4) | Green for port Link/Act.<br>Green for PoE power injected |
| 10/100/1000Base-T(X) RJ45 port indicator (P5) | Green for port Link/Act.<br>Amber for 100Mbps indicator |
| **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. 50~57VDC on 6-pin terminal block. |
| Power consumption (Typ.) | 6.1 Watts |
| Overload current protection | Present |
| Reverse polarity protection | Not Present |
| **Physical Characteristics** | |
| Enclosure | IP-30 |
| Dimensions (W x D x H) | 26.1 (W) x 94.9 (D) x 144.3(H) mm (1.03 x 3.74 x 5.68 inches) |
| Weight (g) | 407 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 |
| 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 A**

| Code Definition | 10/100/1000Base-T(X) P.S.E. Port Number | Additional Port Number | Additional Port Type |
|---|---|---|---|
| **Option** | **- 04:** 4 ports | **- 1:** 1 port | **- GT:** 10/100/1000Base-T(X) |

| Available Model | Model Name | Description |
|---|---|---|
| | IGPS-1041GTA | Industrial 5-port slim type unmanaged Gigabit PoE Ethernet switch with 4x10/100/1000Base-T(X) P.S.E. and 1x10/100/1000Base-T(X) |

**Packing List**

- IGPS-1041GTA
- DIN-Rail Kit
- Wall-mount Kit
- Quick Installation Guide