## IPS-1042FA Series

## Industrial 6-port slim type unmanaged PoE Ethernet switch with 4x10/100Base-T(X) P.S.E. and 2x100Base-FX

## Features

> IPS-1042FA series provide $4 \times 10 / 100$ Base-T(X) PoE(P.S.E.) and $2 \times 100$ Base-FX single/multi-mode fiber ports
> Supports IEEE 802.3at compliant 30Watts PoE per port
> Support auto-negotiation and auto-MDI/MDI-X
> Support store and forward transmission
> Support flow control
> Support surge protection technology
> Warning system by relay output
> Slim type rigid IP-30 housing design
> DIN-Rail and wall mounting enabled


RedundantPWR

$-40 \sim 75^{\circ} \mathrm{C}$
园
Temperature


## Introduction

IPS-1042FA series are unmanaged PoE Ethernet switches with $4 \times 10 / 100$ Base-T(X) P.S.E. and $2 \times 100$ Base-FX ports. IPS-1042FA series 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. IPS-1042FA series has 4X10/100Base-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. IPS-1042FA series support redundant power inputs, configurable relay output alarm and rigid IP-30 housing. In addition, the wide operating temperature range from -40 to $75^{\circ} \mathrm{C}$ can satisfy most of operating environment.

## Practical Operation

IPS-1042FA series can be used in connecting several Ethernet devices like Ethernet I/O, IP-Camera or other Ethernet switches. 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 $=\mathrm{mm}$ (Tolerance $\pm 0.5 \mathrm{~mm}$ )


## 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 - |

## Specifications



| Redundant Input Power | Dual DC inputs. 50~57VDC on 6-pin terminal block. |  |
| :---: | :---: | :---: |
| Power Consumption (Typ.) | 4 Watts <br> (power consumption of P.S.E. is not included) | 4 Watts <br> (power consumption of P.S.E. is not included) |
| PoE power budget | 120W |  |
| Overload Current Protection | Present |  |
| Reverse Polarity Protection | Present |  |
| Physical Characteristic |  |  |
| Enclosure | IP-30 |  |
| Dimension ( $\mathrm{W} \times \mathrm{D} \times \mathrm{H}$ ) | $26.1(\mathrm{~W}) \times 94.9(\mathrm{D}) \times 144.3(\mathrm{H}) \mathrm{mm}(1.03 \times 3.74 \times 5.68$ inch.) |  |
| Weight (g) | 438 g |  |
| Environmental |  |  |
| Storage Temperature | -40 to $85^{\circ} \mathrm{C}\left(-40\right.$ to $\left.185^{\circ} \mathrm{F}\right)$ |  |
| Operating Temperature | -40 to $75^{\circ} \mathrm{C}\left(-40\right.$ to $\left.167^{\circ} \mathrm{F}\right)$ |  |
| Operating Humidity | 5\% to 95\% Non-condensing |  |
| Regulatory approvals |  |  |
| EMC | CE EMC (EN 55024, EN 55032), FCC Part 15B |  |
| EMI | EN 55032, CISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 15B 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 | UL 60950-1, CSA C22.2 No. 60950-1-07, EN 60950-1, IEC 60950-1 |  |
| MTBF | 576828 hrs | 624538 hrs |
| Warranty | 5 years |  |

Note: HW version 5.0

## Ordering Information



## Packing List

- IPS-1042FA x 1 - Quick Installation Guide $\mathbf{x} 1$ - Wall-mount Kit $\mathbf{x} 1$
- Din-Rail Kit x 1


## Optional Accessories

- DR-75-48 : 75 Watts@48VDC DIN-Rail power supply
- SDR-240-48 : 240 Watts@48VDC DIN-Rail power supply
- DR-120-48 : 120 Watts@48VDC DIN-Rail power supply
- SDR-480-48 : 480 Watts@48VDC DIN-Rail power supply

