## Quick Installation Guide

## :- Introduction

IPS-1042FA series are unmanaged PoE Ethernet switches with $4 \times 10100$ Base-T(X)
P.S.E. and $2 \times 100$ asese-FX ports. IPS-1042FA series supports Power over Ethernet P.S.E. and $2 \times 100 B a s e-F X$ 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 semote devices over standard twisted-pair cable in an Ethernet network. IPS.-1042FA series has $4 \times 10 / 100 \mathrm{Base}-\mathrm{T}(\mathrm{X})$
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 Inat will provide power in a PoE setup. PS-1042 PFA series support redundant power
inputs, configuable relay utput 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.

## :- Features

Provide $4 \times 10 / 100$ Base $-\mathrm{T}(\mathrm{X})$ PoE(P.S.E.) and $2 \times 100$ Base-FX single/multi-mode
fiber ports 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

## :-Package Contents

The device is shipped with the following items. If any of these items is missing or damaged, please contact your customer service representative for assistance

| Contents | Pictures | Number |
| :---: | :---: | :---: |
| IPS. 1042FA-MM-SC or IPS-1042FA-SS-SC |  | x 1 |
| DIN-rail Kit | 会 | x 1 |
| Wall-mount Kit | 泡 | $\times 2$ |
| QIG | $\square$ | x1 |
| ${ }^{\text {6-pin terminal block }}$ | Hin | x 1 |

## :- Preparation

 Before you begin installing the switch, make sure you have all of the packagecontents available and a PC with Microsoft Internet Explorer 6.0 or later, for contents available and a meb-based system management tools.

- Safety \& Warnings

1. Elevated Operating Ambient: If installed in a closed or multi-unit rack assembly, phe operating ambient temperature of the rack environment may
greater than room ambient. Therefore, consideration should be given to greater than room ambient. Therefore, consideration should be given to
installing the equipment in an environment compatible with the maximum installing the equipment in an environment compatible with
ambient temperature ( $T$ mal specified by the manufacturer

$$
\begin{aligned}
& \text { Reduced Air Flow: Installation of the equipment in a rack should be such that the } \\
& \text { amount of air flow required for safe operation of the equipment is not compromised. } \\
& \text { Mechanical Loading: Mounting of the equipment in the rack should be such that a } \\
& \text { hazardous condition is not achieved due to uneven mechanical loading. } \\
& \text { (ircuit Overloading: Consideration should be egiven to the connection of the equipment to } \\
& \begin{array}{l}
\text { the supply circuit and the effect that overloading of the circuits might have on overcurrent } \\
\text { protection and supply wiring. Appropiate consideration of equipment nameplate ratings } \\
\text { should be used when aaddressing this concern. }
\end{array}
\end{aligned}
$$



- Panel Layouts

Front View


$$
\begin{aligned}
& \text { 1. Wall-mount screw holes } \\
& \text { 2. Terminal blocks: PWR1, PWR2 } \\
& \text { 'Relay } \\
& \text { 3. DIP Switch } \\
& \text { 4.Ground wire. }
\end{aligned}
$$

## Industrial Unmanaged PoE Switch

## : Installation

## DIN-rail Installation

Step $1:$ Slant the switch and screw the Din-rail kit onto the back of the switch, right in
the middle of the back panel Step 2: Slide the switch onto a DIN-rail from the Din-rail kit and make sure the switch Sten 2: Sidide the switch
clicks into the rail firmly.


- Wall-mounting

Step 1: Screw the wall-mount kit onto the rear panel of the switch. A total of six screws are required, as shown below.
tep 2: Use the switch,
correct locations of the four screwnt plates attached, as a guide to mark the tep 3: Inserta a screw head through the large parts of the keyhole-shaped aperture and then slide the switch downwards. Tighten the screws for added stability.


Network Connection The switch provides standard Ethernet ports. According to the link type, the switch uses
CAT $3,4,5,5 \mathrm{e}$ UTP cables to conect to any other network devices (PCs, servers, switches, router
specifications.

| cable | Type | Max. Length | Connector |
| :---: | :---: | :---: | :---: |
| 108ASE-T | Cat. 3, 4, 5100 | UTP | R-45 |
| 100BA | Cat. 510 | UTP 100 m | R.-45 |

ORing

## Quick Installation Guide

Specifications

| ORing Switch Model | IPS－1042FA－MM－sc | IPS－1042FA－ss－sc |
| :---: | :---: | :---: |
| Physical Ports |  |  |
| 10／100 Base－T（X）Ports in RJ45 Auto MDI／MDIX with P．S．E | 4 |  |
| Fiber Ports Number | 2 | 2 |
| Fiber Ports standard | 1008ase－fx | 1008ase－FX |
| Fiber Mode | Mutit－mode | Single－mode |
| $\frac{7}{⿳ 亠 丷 厂 彡}$ | $62.5 / 125$ um $2.50 / 125$ um | 9／125 um |
| 餀 Fiber Optical Connector | sc | sc |
|  | 2 km | 30 km |
| Wavelength（ $n \mathrm{~m}$ ） | 1310 nm | 1310 nm |
|  | $-14 \mathrm{dbm}$ | －8dbm |
| Min．Output Optical Power（dom） | $-23.5 \mathrm{dbm}$ | $-15 \mathrm{dbm}$ |
| Max．Input optical Power（Saturation） | 0 dbm | odbm |
| Min．Input Optical Power（Sensitivity） | －31 dbm | －34 dbm |
| Link Eudget（db） | 7.5 db | 19 db |
| Technology |  |  |
| Ethernet Standards | IEEE 802.3 for 10Base－T <br> IEEE 802.3 u for 100 Base－TX and 100Base－FX <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 | ${ }_{1} \mathrm{~K}$ MAC addresses |  |
| Processing | Store－and－Forward |  |
| Switch Latency | ＜7us |  |
| Switch Bandwidth | 1.26 bps |  |
| Packet buffersize | ${ }_{488 \mathrm{~K} \text { bits }}$ |  |
| Fault contact |  |  |
| Relay | Relay output to carry capacity of 1 a a 24 voc |  |
| Power |  |  |
| Redundant Input power | Dual DC inputs $50-57 \mathrm{VVCC}$ on 6 －pin terminal lock |  |
| Power consumption（Ty．）． | 4 Watts（power consumption of P．S．．．is not included） |  |
| Overload current protection | Present |  |
| Reverse polarity protection | Present |  |
| Physical Characteristic |  |  |
| Encosure | IP－30 |  |
| Dimension（ $W \times 0 \times H$ ） | 26.1 （W）$\times 9.9 .9$（ ）$\times 144.3$（H）$m m(1.03 \times 3.74 \times 5.68$ inches $)$ |  |
| Weight（9） | 4389 |  |
| Environmental |  |  |
| Storage Temperature | -40 to $85^{\circ} \mathrm{C}\left(-40\right.$ to $\left.185^{\circ} \mathrm{F}\right)$ |  |
| operating Temperature |  |  |
| Operating Humidity | 5\％\％to 95\％Non－condensing |  |
| Regulatory Approvals |  |  |
| Enc | CE EMC（EN 50024，EN 50332），FCC Part 15B |  |
| Emi | EN 55032，cISPR32，EN 61000－3－2－2，EN 61000－3－3，FCC Part 158 class A |  |
| Ens | 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 61000－4－5（Surge），IEC／EN 61000－4－6（CS），IEC／EN 61000－4－8（PFMF）， IEC／EN 61000－4－11（DIP）） <br> IEC／EN 61000－4－11（DIP）） |  |
| shock | IEC60068－2－27 |  |
| Free fall | ${ }_{\text {IEC60068－2－31 }}$ |  |
| vibration | IEC6006－2－6 |  |
| safety | UL 60950－1，CSA C22．2 No．60950－1．07，EN 60950－1，IEC 60950－1 |  |
| $\begin{aligned} & \text { MTBF } \\ & \text { Warranty } \end{aligned}$ | $576828 \mathrm{hrs}$ $5 \text { years }$ |  |

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