VOLKTEK

# IPI-432P

## Industrial Gigabit 60W PoE Injector

# IPI-442P

## Industrial Gigabit 90W PoE Injector

PoE++ Plug & Play DIN Rail 40°C 75°C

RoHS CE FC

## Description

IPI-442P (90W) and IPI-432P (60W) are a series of a single port PoE injector to deliver data and power to powered devices (PDs) via Cat-5e or Cat-6 Ethernet cables. The IPI-442P and IPI-432P allow data transmission at multiple rate 10/100/1000Mbps and power delivery up to 90 and 60 Watts, respectively; it's suitable for the revolutionary PoE-based lighting system that creates a new breed of smart buildings where everything is connected to a vast Internet of Things (IoT).

The IPI-442P and IPI-432P are fan-less and could be deployed in the ceiling or outdoor cabinets for smart lighting or other network communication devices. Engineered with hardened components and enclosed in a rugged IP30 case, the IPI-442P and IPI-432P can operate in wide temperatures from -40ºC to 75ºC and have excellent tolerance capability to high vibration and shock suitable for high-power building automation applications.

## Features Highlight

### Simplified Installation w/ Compact Size

The IPI-442P and IPI-432P injectors provide a varied choice of deployment locations such as small spaces and harsh environment conditions. The MDI/MDI-X feature allow all devices to interact after plugged. When compatible devices are connected the injector will automatically detect and provide enough power for the device to operate.

### Easy plug and play operation

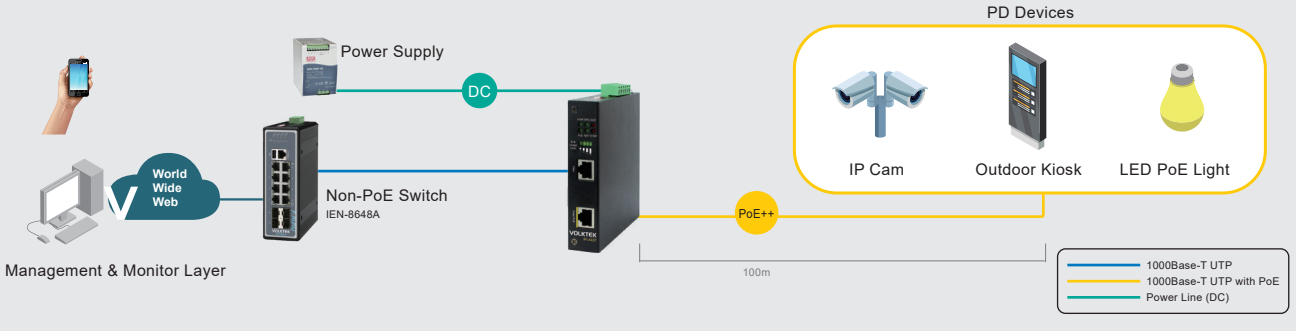
The IPI-442P and IPI-432P injectors are the easy-to-setup and ready-to-use solution for the high PoE application system. Featuring Auto-MDI/MDIX and Auto-negotiation on the copper port, the injectors automatically detects and configures the best mode of operation over a link. This eliminates the need for user setup or configuration procedure and simplifies installation, once installed these injectors operate automatically.

### Robust Switch Performance

With IP30 metal case, surge and ESD protection, the IPI-442P and IPI-432P provide a high level of immunity against electromagnetic interference and heavy electrical surges which are easy to deploy in industrial environments. Furthermore, the IPI-442P and IPI-432P offer 90W and 60W injector architecture with one port of 10/100/1000BASE-T to meet the requirements of high-power PDs, Fast Ethernet or Gigabit Ethernet in tough operating temperatures.

## Applications

The PoE++ Injectors provide power of up to 60W and 90W to utilize power more effciently on PDs such as PTZ IP Cam, VOIP Phones, WiFi AP and smart PoE lights.



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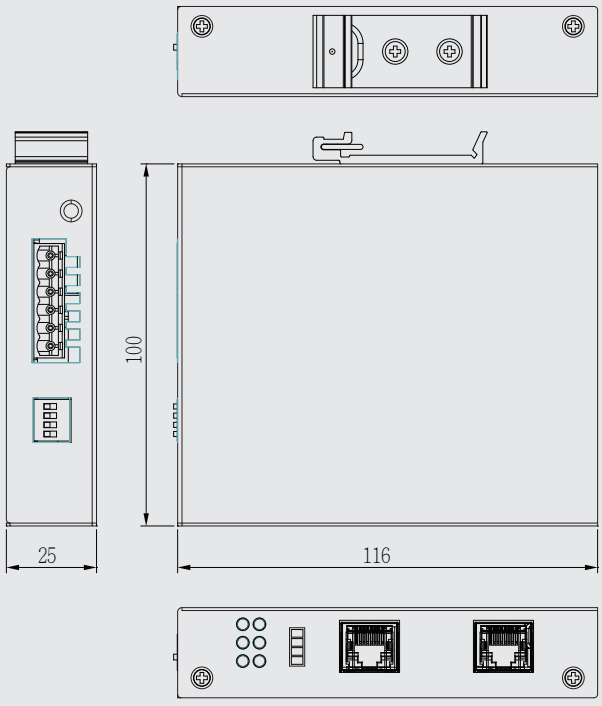
## Specifications

| Standards | |
|---|---|
| IEEE 802.3u | 100Base-TX/FX |
| IEEE 802.3ab | 1000Base-T |
| IEEE 802.3af | PoE |
| IEEE 802.3at | PoE+ |
| IEEE 802.3bt | 4PPoE, 4-pair PoE |
| **Interface** | |
| Ports | 1 x 10/100/1000 RJ45<br>1 x 10/100/1000 PSE |
| DIP Switch | PWR, RPS, NBT, RSV |
| LED Panel | PWR, RPS, ALM, PoE, NBT, 93~96W,<br>PoE Usage (15, 30, 60, 90) |
| **Power** | |
| Power Input | Dual 24~57V DC, Terminal Block |
| Power Consumption | 120 Watt |
| PoE Mode | IEEE 802.3af (PoE)<br>IEEE 802.3at (PoE+)<br>IEEE 802.3bt (4PPoE)<br>IEEE 802.3bt (Type 4) |
| PoE Type | MidSpan |
| PoE Budget | 90W: IPI-442P-90 |
| | 60W: IPI-432P-60 |
| **Mechanical and Environment** | |
| Housing | Metal, IP30 |
| Dimensions (W x H x D) | 25 x 116 x 100 mm (0.98 x 4.57 x 3.93 in) |
| Weight | 385 g (0.85 lb) |
| Mounting | DIN Rail |
| Operating Temperature | -40~75°C (-40°F~167°F) |
| Storage Temperature | -40~85°C (-40°F~185°F) |
| Operating Humidity | 5~95% RH (non-condensing) |
| Storage Humidity | 5~95% RH (non-condensing) |
| Cooling Fan | Fan-less |

| Standards and Certifications | |
|---|---|
| EMI | FCC Part 15 Subpart B Class A |
| | EN 55011 class A |
| | EN 55032 class A |
| | CISPR 32 Class A |
| | EN 61000-6-4 |
| 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 |
| Green Product | RoHS |
| **Ordering Information** | |
| IPI-442P-90 | Industrial Gigabit 90W PoE Injector |
| IPI-432P-60 | Industrial Gigabit 60W PoE Injector |

**Specifications subject to change without notice.*

## Dimension