# VOLKTEK

# IPI-432P-60-I

## Industrial Gigabit 60W PoE Injector

## Description

IPI-432P-60-I (60W) is 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-432P-60-I allows data transmission at multiple rate 10/100/1000Mbps and power delivery up to 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-432P-60-I 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 The IPI-432P-60-I can operate in wide temperatures from -40ºC to 70ºC 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-432P-60-I 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.

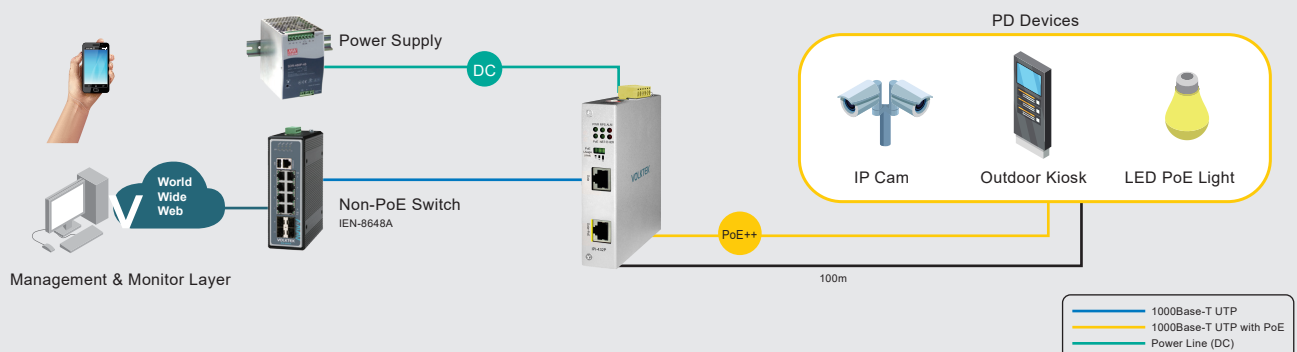### Easy plug and play operation

The IPI-432P-60-I 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-432P-60-I provide a high level of immunity against electromagnetic interference and heavy electrical surges which are easy to deploy in industrial environments. Furthermore, the IPI-432P-60-I offers 60W injector architecture 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 to utilize power more effciently on PDs such as PTZ IP Cam, VOIP Phones, WiFi AP and smart PoE lights.



PD Devices

Power Supply
DC

Management & Monitor Layer

World Wide Web

Non-PoE Switch
IEN-8648A

PoE++

100m

IP Cam    Outdoor Kiosk    LED PoE Light

1000Base-T UTP
1000Base-T UTP with PoE
Power Line (DC)

# VOLKTEK

## Specifications

| Standards | |
|---|---|
| IEEE 802.3af | PoE |
| IEEE 802.3at | PoE+ |
| IEEE 802.3bt | 4PPoE, 4-pair PoE |
| **Interface** | |
| Ports | 1 x Gigabit for Data<br>1 x RJ45 for Data & PSE |
| DIP Switch | PWR, RPS, NBT, RSV |
| LED Panel | IPI-442P-90-I:<br>PWR, RPS, ALM, PoE, NBT, 93~96W<br>PoE Usage (15, 30, 60, 90)<br>IPI-432P-60-I:<br>PWR, RPS, ALM, PoE, NBT, 63~66W<br>PoE Usage (15, 30, 60) |
| **Power** | |
| Power Input | Dual 24~57V DC, Terminal Block |
| Power Consumption | IPI-442P-90-I: 9 Watt (System Only)<br>IPI-432P-60-I: 7 Watt (System Only) |
| 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-I |
| | 60W: IPI-432P-60-I |
| Alarm Relay | One relay output with current carrying capacity of 1A@ 24V DC |

| Mechanical and Environment | |
|---|---|
| Housing | Aluminum, IP30 |
| Dimensions (W x H x D) | 25 x 116 x 100 mm (0.98 x 4.57 x 3.93 in) |
| Weight | 220 g (0.49 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<br>IEC/EN 61000-4-2 (ESD)<br>IEC/EN 61000-4-3 (RS)<br>IEC/EN 61000-4-4 (EFT)<br>IEC/EN 61000-4-5 (Surge)<br>IEC/EN 61000-4-6 (CS)<br>IEC/EN 61000-4-8 |
| Safety | UL 61010-1 / UL 61010-2-210 |
| Green Product | RoHS |
| **Ordering Information** | |
| IPI-432P-60-I | Industrial Gigabit 60W PoE Injector |

*Note:*
*\*The highest degree of temperature operation certified by UL is -40~70°C (-40°F~158°F).*
*\*Specifications subject to change without notice.*

## Dimension