## RP-IPG421A

## 4-P Gigabit PoE + 1-TP/SFP combo + 1-SFP(100/1G) slot Industrial Switch W/ External DC power DIN

RP-IPG421A Industrial Ethernet Switch with POE+ feature complies with IEEE802.3af and IEEE802.3at. It delivers 30watts power per POE port and generates a total of 120 watts power to PD devices, and 2 SFP slots are supported. RP-IPG421A provides power input voltage 48Vdc, especially for IP surveillance, traffic monitoring and for a broad range of applications.

RP-IPG421A accepts 3 power input source, from PW1, PW2, and Power DIN (for external power adapter).

RP-IPG421A can be used as a stand-alone device for buses, trucks, and other vehicles for Surveillance purposes. With IP-30 standard industrial case protection allows for either DIN rail or wall mounting for efficient use of cabinet space.

Its wide operating temperature ranges from -40°C to 75°C for under harsh environment.
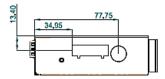
## Features

- Supports P.S.E. based on IEEE 802.3at up to 30 Watts per port
- SFP port supports 100Base-FX and 1000Base-X speed
- Support 48~56VDC power inputs for power redundancy
- Support overload current protection
- Support reserve polarity protection
- 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
- Built-in power DIN for 110/240VAC environment
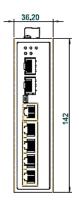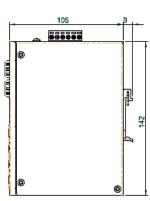- Support Wide Operating Temperature -40°C~75°C

# Specifications

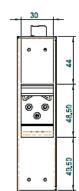| | |
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| **Standards** | ● IEEE 802.3 10Base-T Ethernet<br>● IEEE 802.3u 100Base-TX Fast Ethernet<br>● IEEE 802.3ab 1000Base-T Gigabit Ethernet<br>● IEEE 802.3z 1000Base-X Gigabit Ethernet<br>● IEEE802.3x Flow Control and Back Pressure,<br>● IEEE802.3af for POE<br>● IEEE802.3at for POE+ |
| **Interface** | ● 5 RJ-45 Port: 10/100/1000BaseT(X) auto negotiation, 4 Giga POE+ 802.3at/af PSE port, Auto MDI/MDI-X function, Full/Half duplex<br>● 2 SFP slots: 100/1000M Base-X |
| **Switch Architecture** | ● Back-plane (Switching Fabric): 12Gbps |
| **Data Processing** | ● Store and Forward |
| **Flow Control** | ● IEEE 802.3x Flow Control and Back Pressure |
| **Jumbo Frame** | ● 9KB |
| **MAC Table Size** | ● 1K |
| **Packet Buffer Size** | ● 1Mbits |
| **Network Cable** | ● UTP/STP above Cat.5e Cable, EIA/TIA-568 100-ohm (100m)<br>● Fiber Cable (Multi-mode):50/125um,62.5/125um<br>● Fiber Cable (Single-mode): 9/125um |
| **Protocol** | ● CSMA/CD |
| **LED indicator** | ● PW1(Green), PW2(Green), PW3(Amber), RLY(Amber)<br>● TX/RJ-45 port: LNK (Green), PoE(Amber)<br>● SFP (Green) |
| **DIP Switch** | ● DIP 1: OFF: Port 5 SFP (Default) ; ON: Port 5 TX<br>● DIP 2: OFF: SFP 1000M ; ON: SFP 100M |
| **Reserve polarity protection** | ● Present |
| **Overload current protection** | ● Present |
| **Power Supply** | ● Redundant Dual DC 48V-56V Power Input<br>● POE input 48-56VDC |
| **Power Consumption** | ● 5.76W@48 VDC full load, Without POE |
| **Alarm Relay Contact** | ● Relay outputs with current carrying capacity of 1 A @24VDC,<br>● Relay in "OPEN" circuit mode when PW1 and PW2 are connected. in "SHORT" circuit mode when only one power supply is connected |
| **PoE power budget** | ● POE power per port 30watts. Maximum 36Watts<br>● Maximum total power 120Watts, Supports IEEE802.3af/at |
| **Removable Terminal Block** | ● Provide 2 Redundant power, Alarm relay contact, 6 Pin. And circular POWER DIN for power adapter<br>● Wire range: 0.34mm^2 to 2.5mm^2<br>● Solid wire (AWG):12-24/14-22<br>● Stranded wire(AWG): 12-24/14-22<br>● Torque:5lb-In/0.5Nm/0.56Nm<br>● Wire Strip length: 7-8mm |
| **Operating Temperature** | ● -40°C ~75°C |

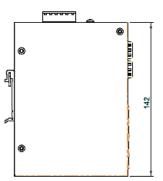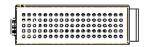| | |
|---|---|
| **Storage Temperature** | ● -40°C~85°C |
| **Operating Humidity** | ● 5% to 95% (Non-condensing) |
| **Housing** | ● Rugged Metal ,IP30 Protection |
| **Dimension** | ● 142 x 43 x 105mm (LxWxD) |
| **Installation mounting** | ● DIN Rail mounting and Wall Mounting |
| **EMC/EMS** | ● CE, FCC |
| **EMI** | ● FCC Part 15 Subpart B Class A<br>● CE EN 55022 Class A |
| **Safety** | ● IEC EN60950-1 |
| **Vibration** | ● EN 50155 / EN 60068-2-6 |
| **Shock** | ● EN 50155 / EN 60068-2-27 |
| **Free Fall** | ● EN 50155 / EN 60068-2-32 |

## Diagram



## Ordering information

**RP-IPG421A**　　　　4-P Gigabit PoE + 1-TP/SFP combo + 1-SFP(100/1G) slot Industrial Switch, with External DC power DIN