



RP-IPG402A

4-P Gigabit PoE + 2-SFP(100/1G) slot Industrial Switch W/ External DC power DIN

RP-IPG402A 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 126 watts power to PD devices, and 2 SFP slots are supported. RP-IPG402A provides power input voltage 48~56VDC, especially for IP surveillance, traffic monitoring and for a broad range of applications.

RP-IPG402A accepts 3 power input source, from PW1, PW2, and Power DIN (for external power adapter).

RP-IPG402A 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

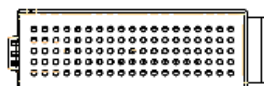
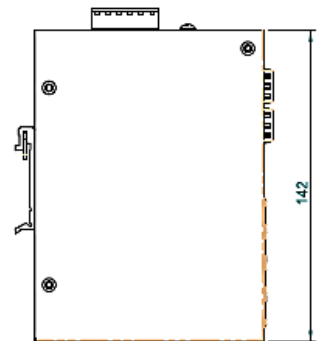
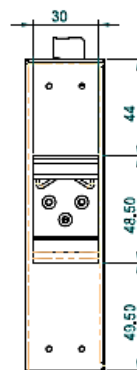
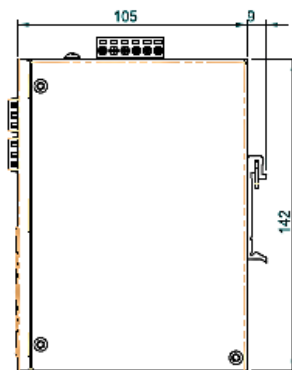
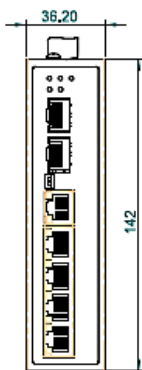
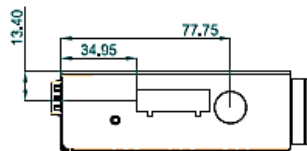
- Supports P.S.E. based on IEEE 802.3at up to 30 Watts per port
- SFP port supports 100Base-FX and 1000Base-X speed
- Support 48~56VDC power inputs for power redundancy
- Support overload current protection
- Support reverse polarity protection
- Supports auto-negotiation and auto-MDI/MDI-X
- Supports 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

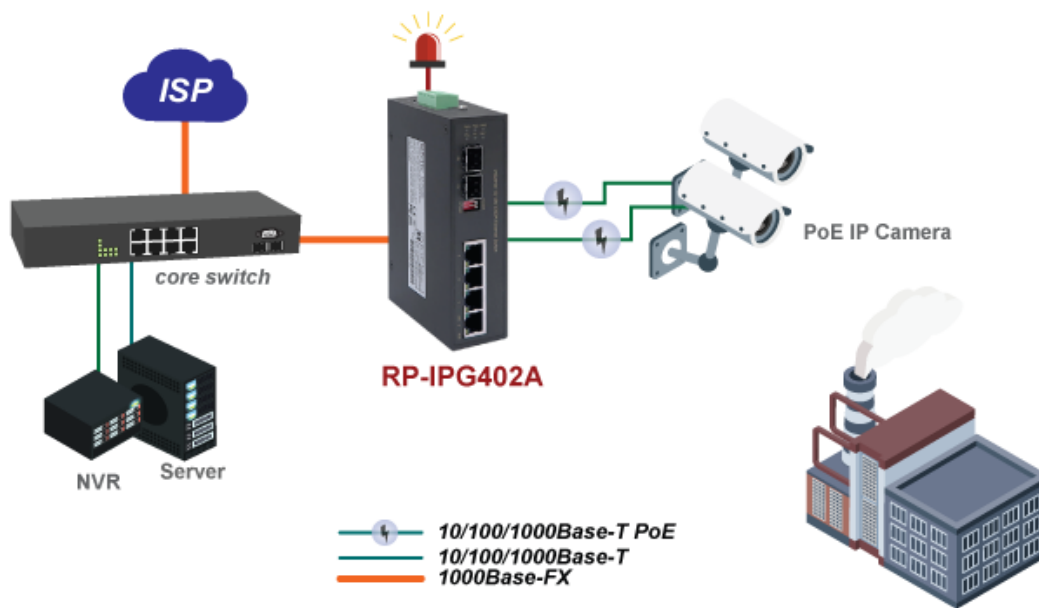
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| Standards | <ul style="list-style-type: none"> ● IEEE 802.3 10Base-T Ethernet ● IEEE 802.3u 100Base-TX Fast Ethernet ● IEEE 802.3ab 1000Base-T Gigabit Ethernet ● IEEE 802.3z 1000Base-X Gigabit Ethernet ● IEEE802.3x Flow Control and Back Pressure, ● IEEE802.3af for POE ● IEEE802.3at for POE+ |
| Interface | RP-IPG402A <ul style="list-style-type: none"> ● 4 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 ● 2 SFP slots: 100/1000M Base-X |
| | RP-IPG401A <ul style="list-style-type: none"> ● 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 ● 1 SFP slots: 1000M Base-X |
| | RP-IPG421A <ul style="list-style-type: none"> ● 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 ● 2 SFP slots: 100/1000M Base-X |
| Switch Architecture | <ul style="list-style-type: none"> ● Back-plane (Switching Fabric): 12Gbps (RP-IPG402A, RP-IPG401A) ● Back-plane (Switching Fabric): 14Gbps (RP-IPG421A) |
| Data Processing | <ul style="list-style-type: none"> ● Store and Forward |
| Flow Control | <ul style="list-style-type: none"> ● IEEE 802.3x Flow Control and Back Pressure |
| Jumbo Frame | <ul style="list-style-type: none"> ● 9KB |
| MAC Table Size | <ul style="list-style-type: none"> ● 1K |
| Packet Buffer Size | <ul style="list-style-type: none"> ● 1Mbits |
| Network Cable | <ul style="list-style-type: none"> ● UTP/STP above Cat.5e Cable, EIA/TIA-568 100-ohm (100m) ● Fiber Cable (Multi-mode):50/125um,62.5/125um ● Fiber Cable (Single-mode): 9/125um |
| Protocol | <ul style="list-style-type: none"> ● CSMA/CD |
| LED indicator | <ul style="list-style-type: none"> ● PW1(Green), PW2(Green), PW3(Amber), RLY(Amber) ● RJ-45 port: LNK (Green), PoE(Amber) ● SFP (Green) |
| DIP Switch | RP-IPG402A <ul style="list-style-type: none"> ● DIP 1: OFF: Port 5 SFP ON (Default) ; ON: Port 5 SFP OFF ● DIP 2: OFF: SFP 1000M ; ON: SFP 100M |
| | RP-IPG421A <ul style="list-style-type: none"> ● DIP 1: OFF: Port 5 SFP (Default) ; ON: Port 5 TX ● DIP 2: OFF: SFP 1000M ; ON: SFP 100M |
| Reverse polarity protection | <ul style="list-style-type: none"> ● Present |
| Overload current protection | <ul style="list-style-type: none"> ● Present |
| Power Supply | <ul style="list-style-type: none"> ● Redundant Dual DC 48V-56V Power Input ● PoE input 48-56VDC |
| Power Consumption | <ul style="list-style-type: none"> ● 5.76W@48 VDC full load, Without PoE |
| Alarm Relay Contact | <ul style="list-style-type: none"> ● Relay outputs with current carrying capacity of 1 A @24VDC, ● Relay in “open” circuit mode when PW1 and PW2 are connected. in |

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| | “short” circuit mode when only one power supply is connected |
| PoE power budget | <ul style="list-style-type: none"> ● POE power per port 30watts. Maximum 36Watts ● Maximum total power 126Watts, Supports IEEE802.3af/at |
| Removable Terminal Block | <ul style="list-style-type: none"> ● Provide 2 Redundant power, Alarm relay contact, 6 Pin. And circular POWER DIN for power adapter ● Wire range: 0.34mm² to 2.5mm² ● Solid wire (AWG):12-24/14-22 ● Stranded wire(AWG): 12-24/14-22 ● Torque:5lb-In/0.5Nm/0.56Nm ● Wire Strip length: 7-8mm |
| Environment | <ul style="list-style-type: none"> ● Operating Temperature: -40°C ~75°C ● Storage Temperature: -40°C~85°C ● Operating Humidity: 5% to 95% (Non-condensing) |
| Housing | <ul style="list-style-type: none"> ● Rugged Metal ,IP30 Protection |
| Dimension | <ul style="list-style-type: none"> ● 142 x 43 x 105mm (LxWxD) |
| Installation mounting | <ul style="list-style-type: none"> ● DIN Rail mounting and Wall Mounting |
| EMC/EMS | <ul style="list-style-type: none"> ● CE, FCC |
| EMI | <ul style="list-style-type: none"> ● FCC Part 15 Subpart B Class A ● CE EN 55022 Class A |
| Safety | <ul style="list-style-type: none"> ● IEC EN60950-1 |
| Stability Testing | <ul style="list-style-type: none"> ● EN 50155 / EN 60068-2-6 (Vibration), EN 50155 / EN 60068-2-27(Shock), EN 50155 / EN 60068-2-32(Free Fall) |

Diagram



Application



Ordering information

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|-------------------|---|
| RP-IPG402A | 4-P Gigabit PoE + 2-SFP(100/1G) slot Industrial Switch, with External DC power DIN |
| RP-IPG401A | 4-P Gigabit PoE + 1-Gigabit TP + 1-SFP(1000M) slot Industrial Switch, with External DC power DIN |
| RP-IPG421A | 4-P Gigabit PoE + 1-TP/SFP combo + 1-SFP(100/1G) slot Industrial Switch, with External DC power DIN |