



RP-IPG402A

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

RP-IPG402A Industrial Ethernet Switch is a versatile and reliable device designed for a wide range of applications. It complies with IEEE802.3af and IEEE802.3at standards, delivering 30 watts of power per PoE port and a total of 120 watts power to connected PD devices. With its two SFP slots, the switch allows for high-speed data transmission and flexible network configurations.

RP-IPG402A offers a power input voltage of 48~56VDC and accepts three power input sources: PW1, PW2, and Power DIN for an external power adapter. This adaptability ensures compatibility with various power sources and provides options for power redundancy.

RP-IPG402A is suitable for both standalone and vehicle applications. Its IP-30 standard industrial case protection allows for efficient mounting on either a DIN rail or a wall, making it ideal for space-constrained installations. Furthermore, its wide operating temperature range of -40°C to 75°C ensures reliable performance even in harsh environments.

Features

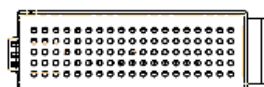
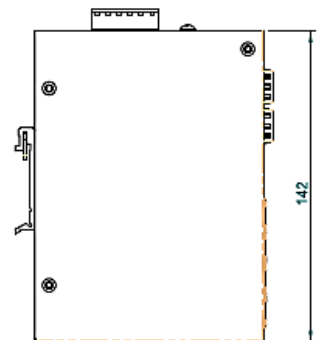
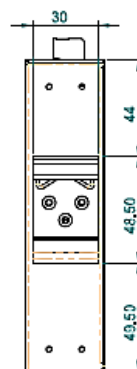
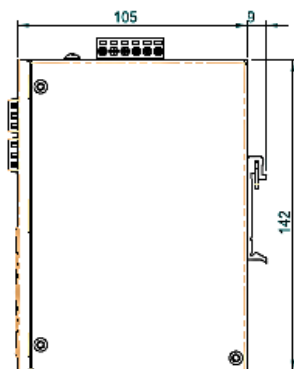
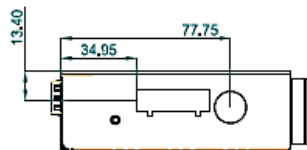
- Supports P.S.E. based on IEEE 802.3at up to 30 Watts per port
- SFP port supports 100Base-FX and 1000Base-X speed
- Support 48~56VDC power inputs for power redundancy
- Support overload current protection
- Support reverse polarity protection
- Supports auto-negotiation and auto-MDI/MDI-X
- Supports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

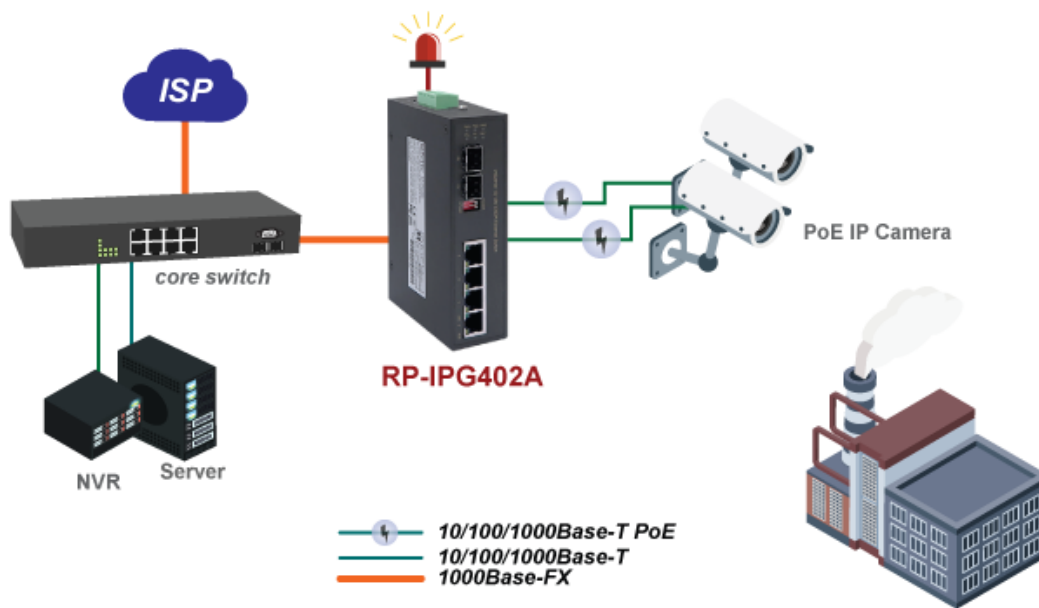
Standards	<ul style="list-style-type: none"> ● IEEE 802.3 10Base-T Ethernet ● IEEE 802.3u 100Base-TX Fast Ethernet ● IEEE 802.3ab 1000Base-T Gigabit Ethernet ● IEEE 802.3z 1000Base-X Gigabit Ethernet ● IEEE802.3x Flow Control and Back Pressure, ● IEEE802.3af for POE ● IEEE802.3at for POE+
Interface	RP-IPG402A <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-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) ● 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 “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

	<ul style="list-style-type: none"> ● 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	● Rugged Metal ,IP30 Protection
Dimension	● 142 x 36.2 x 105mm (LxWxD)
Installation mounting	● DIN Rail mounting and Wall Mounting
EMC/EMS	● CE, FCC
EMI	<ul style="list-style-type: none"> ● FCC Part 15 Subpart B Class A ● CE EN 55022 Class A
Safety	● IEC EN60950-1
Stability Testing	● 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-IPG421A | 4-P Gigabit PoE + 1-TP/SFP combo + 1-SFP(100/1G) slot Industrial Switch, with External DC power DIN |