



RP-ISG421A

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

RP-ISG421A is a 4-P Gigabit + 1-TP/SFP combo + 1-SFP(100/1G) slot Industrial Switch. RP-ISG421A is designed for supporting **standard industrial applications** without complex setup to make the network truly plug-and-play. RP-ISG421A can be used to connect several Ethernet devices like Ethernet I/O, IP-Camera or other Ethernet switches. In addition, RP-ISG421A provides wide power input voltage range +12 ~ + 56Vdc for application flexibility which secures equipment against unregulated voltage and makes systems safer and more reliable. RP-ISG421A accepts 3 power input sources: PW1, PW2, and Power DIN (or external power adapter).

With the 5 10/100/1000Mbps Gigabit Ethernet ports, RP-ISG421A provides non-blocking switch fabric and wire-speed throughput as high as 10Gbps, RP-ISG421A performs wire-speed packets transfer without risk of packet loss.

The protection of compact IP-30 standard metal case allows for either DIN rail or wall mounting for efficient use of cabinet space.

Feature

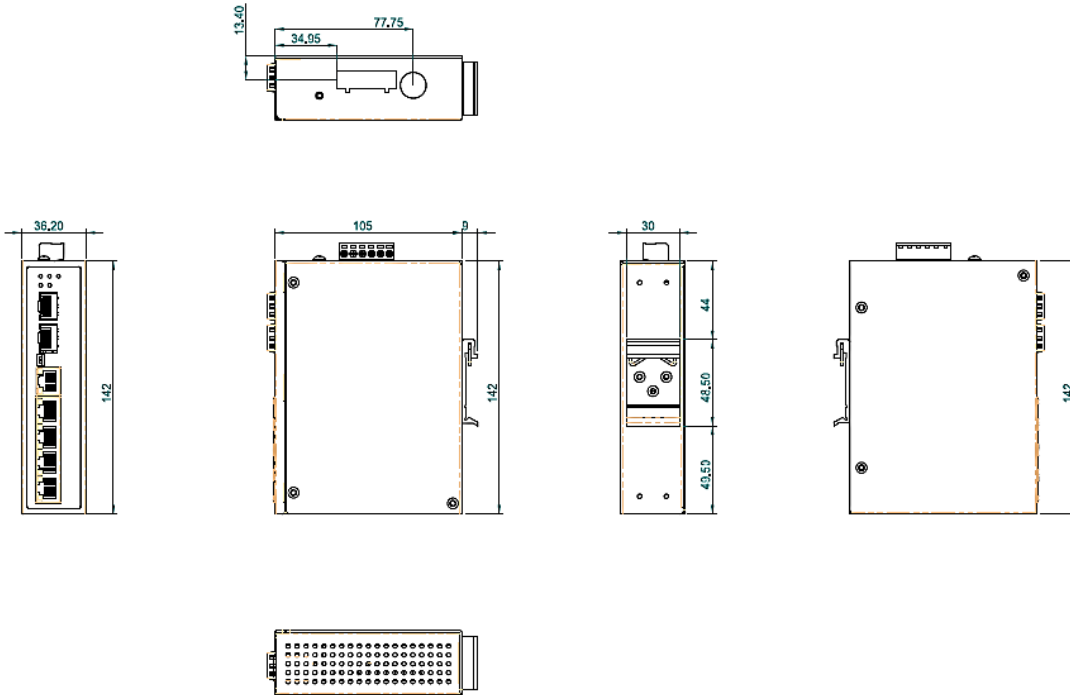
- RJ-45 port support Auto MDI/MDI-X Function
- SFP port supports 100Base-FX and 1000Base-X speed
- Store-and-Forward Switching Architecture
- Back-plane (Switching Fabric): 12Gbps
- 1Mbits Memory Buffer
- 1K MAC Address Table
- Power Polarity Reverse Protect
- With Overload Current Re-settable Fuse
- IP-30 Protection
- DIN Rail and Wall Mount Design

Specification

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 	
Switch Architecture	<ul style="list-style-type: none"> • Back-plane (Switching Fabric): 12Gbps 	
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"> • 1M 	
Network Connector	<ul style="list-style-type: none"> • 5 RJ-45 Port: 10/100/1000BaseT(X) auto negotiation, Auto MDI/MDI-X function, Full/Half duplex • 2 SFP slots: 100/1000M Base-X 	
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	<ul style="list-style-type: none"> • PW1 (Green), PW2(Green), PW3 (Amber), RLY (Amber) • TX/RJ-45 port: LNK(Green) • SFP Fiber Per port: Link (Green) 	
DIP Switch	<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 	
Reserve 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 12V-56V Power Input 	
Power Consumption	<ul style="list-style-type: none"> • 5.76W @48 VDC full load 	
Alarm Relay Contact	<ul style="list-style-type: none"> • Relay outputs with current carrying capacity of 1A @24VDC (Relay in “open” circuit mode when PW1 and PW2 are connected. in “short” circuit mode when only one power supply is connected) 	
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) 	
Dimension	<ul style="list-style-type: none"> • 142 x 43 x 105mm (LxWxD) 	
Housing	<ul style="list-style-type: none"> • Rugged Metal ,IP30 Protection 	
Installation	<ul style="list-style-type: none"> • DIN Rail and Wall Mount Design 	
Certification	Safety	<ul style="list-style-type: none"> • LVD (EN62368-1)
	EMC	<ul style="list-style-type: none"> • CE, FCC, EN 55032/35
	EMI	<ul style="list-style-type: none"> • CISPR 32, FCC Part 15B Class A

	EMS	<ul style="list-style-type: none"> • IEC 61000-4-2 ESD: Contact: 6KV; Air: 8KV • IEC 61000-4-4 EFT: Power: 2KV; Sgnal: 2KV • IEC 61000-4-5 Surge: Power: 2KV; Signal: 2KV
	Stability Testing	<ul style="list-style-type: none"> • Vibration EN 60068-2-6, Shock EN 60068-2-27, Free Fall EN 60068-2-32

Diagram



Ordering information

RP-ISG421A 4-P Gigabit + 1-TP/SFP(100/1G) combo + 1-SFP(100/1G) slot Industrial Switch, with External DC power DIN