



## **RP-IPGU421**

### **4-P Gigabit 90W PoE + 1-TP/SFP combo + 1-SFP(100/1G) slot Industrial Switch**

RP-IPGU421 is a robust Industrial Gigabit Switch tailored for demanding environments. Boasting four Gigabit PSE ports supporting IEEE 802.3bt, each delivering a robust 90W, it provides an ideal power supply for high-energy devices such as outdoor speed domes and lamps crucial for IP surveillance and traffic monitoring applications.

The built-in hardened PoE controller ensures efficient and reliable power distribution. RP-IPGU421 supports 52~56VDC power inputs, ensuring power redundancy for enhanced reliability in critical operations. The switch goes beyond the basics by incorporating alarm relay functionality and supporting flow control, optimizing communication and management within industrial networks. And with the convenience of two SFP ports, users can easily cascade and daisy-chain the switch to cover larger areas, enhancing scalability in industrial setups.

RP-IPGU421 equips in a rugged IP-30 Aluminum heat sink housing and capable of operating in extreme temperatures ranging from -40 to +75°C, this switch is built to withstand harsh conditions. Its DIN-Rail and wall mounting options further enhance flexibility, enabling seamless integration into diverse industrial setups.

## **Features**

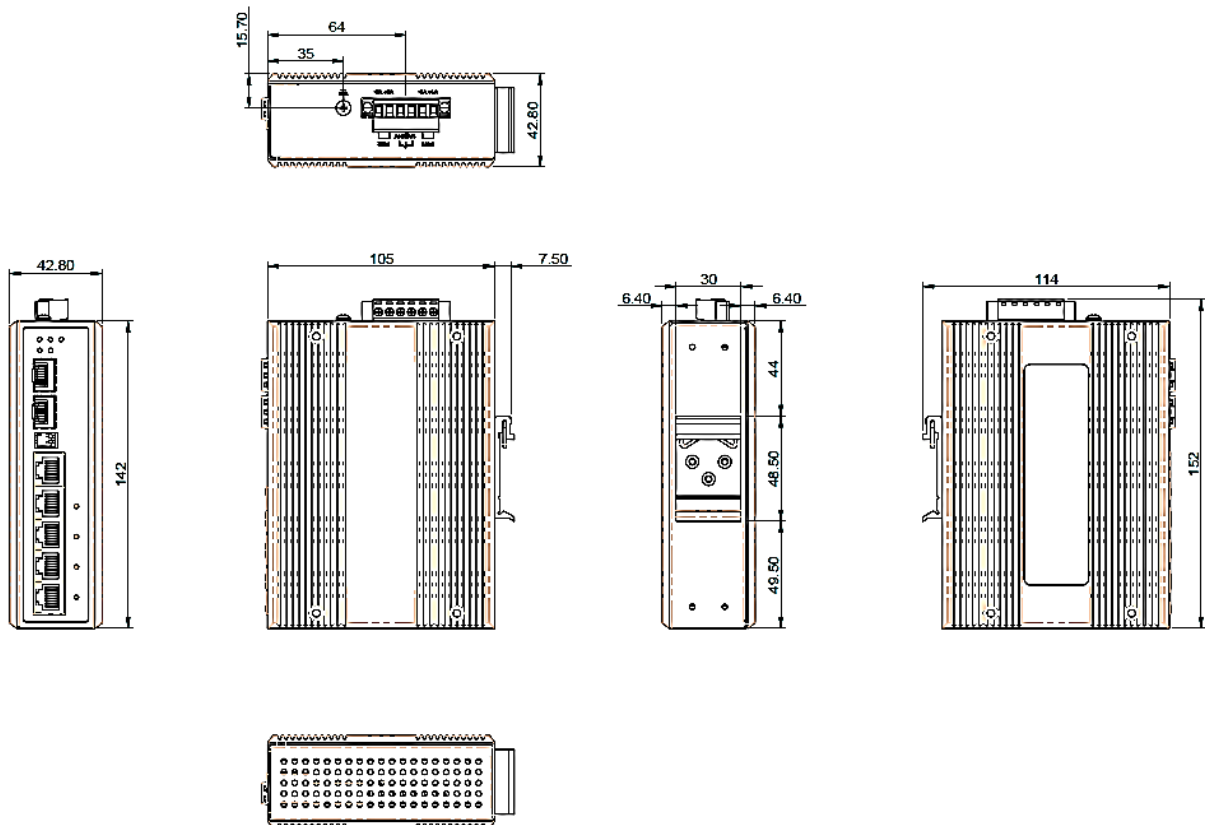
- Support 802.3bt, 90Ws per port, total up to 240W
- Built-in hardened PoE controller
- Easy cascade through built-in 2 SFP ports
- Support 52~56VDC power inputs for power redundancy
- Supports alarm relay
- Supports flow control
- Rigid IP-30 Aluminum heat sink housing design
- Works in extreme environments -40 to +75°C
- DIN-Rail and wall mounting enabled

## Specifications

<b>Standards</b>	<ul style="list-style-type: none"> <li>● IEEE 802.3 10Base-T Ethernet</li> <li>● IEEE 802.3u 100Base-TX Fast Ethernet</li> <li>● IEEE 802.3ab 1000Base-T Gigabit Ethernet</li> <li>● IEEE 802.3z 1000Base-X Gigabit Ethernet</li> <li>● IEEE 802.3x Flow Control and Back Pressure</li> <li>● IEEE 802.3af PoE</li> <li>● IEEE 802.3at PoE+</li> <li>● IEEE 802.3bt PoE++</li> </ul>
<b>Switch Architecture</b>	<ul style="list-style-type: none"> <li>● Back-plane (Switching Fabric): 12Gbps</li> </ul>
<b>Data Processing</b>	<ul style="list-style-type: none"> <li>● Store and Forward</li> </ul>
<b>Flow Control</b>	<ul style="list-style-type: none"> <li>● IEEE 802.3x Flow Control and Back Pressure</li> </ul>
<b>Jumbo Frame</b>	<ul style="list-style-type: none"> <li>● 9KB</li> </ul>
<b>MAC Table Size</b>	<ul style="list-style-type: none"> <li>● 1K</li> </ul>
<b>Packet Buffer Size</b>	<ul style="list-style-type: none"> <li>● 1Mbits</li> </ul>
<b>Network Connector</b>	<ul style="list-style-type: none"> <li>● 4 x 90W Gigabit TX PSE</li> <li>● 1 x Gigabit TX/SFP Combo</li> <li>● 1 x 100/1000M SFP slot</li> <li>● Auto MDI/MDI-X function, Full/Half duplex</li> </ul>
<b>Network Cable</b>	<ul style="list-style-type: none"> <li>● UTP/STP Cat.5e or above Cable, EIA/TIA-568 (100m)</li> </ul>
<b>Protocol</b>	<ul style="list-style-type: none"> <li>● CSMA/CD</li> </ul>
<b>LED</b>	<ul style="list-style-type: none"> <li>● PW1(Green), PW2(Green), ERR(Amber)</li> <li>● P1~P4 LNK(Green)</li> <li>● RJ-45 port: PoE(Green), SPD-1000M(Amber); 10/100M(OFF)</li> <li>● SFP port: Link (Green)</li> </ul>
<b>DIP Switch</b>	<ul style="list-style-type: none"> <li>● DIP 1: Port 5 SFP on(Default) ; Port 5 TX on</li> <li>● DIP 2: SFP 1000M (Default) ; SFP 100M</li> </ul>
<b>Reverse polarity protection</b>	<ul style="list-style-type: none"> <li>● Present</li> </ul>
<b>Overload current protection</b>	<ul style="list-style-type: none"> <li>● Present</li> </ul>
<b>Power Supply</b>	<ul style="list-style-type: none"> <li>● Redundant Dual DC 52V-56V Power Input</li> </ul>
<b>Power Consumption</b>	<ul style="list-style-type: none"> <li>● 5.76W@52 VDC full load, Without PoE</li> </ul>
<b>Alarm Relay Contact</b>	<ul style="list-style-type: none"> <li>● Relay outputs with current carrying capacity of 1 A @24VDC,</li> <li>● Relay in short circuit mode when 2 powers are connected. in open circuit mode when only one power supply is connected</li> </ul>
<b>PoE power</b>	<ul style="list-style-type: none"> <li>● PoE power per port 90watts.</li> <li>● Maximum total power 240Watts</li> <li>● Supports IEEE802.3af/at/bt</li> </ul>

<b>Removable Terminal Block</b>	<ul style="list-style-type: none"> <li>● Provide 2 Redundant power, Alarm relay contact ,6 Pin</li> <li>● Wire range: 0.34mm<sup>2</sup> to 2.5mm<sup>2</sup></li> <li>● Solid wire (AWG):12-24/14-22</li> <li>● Stranded wire (AWG): 12-24/14-22</li> <li>● Torque:5lb-In/0.5Nm/0.56Nm</li> <li>● Wire Strip length: 7-8mm</li> </ul>
<b>Environment</b>	<ul style="list-style-type: none"> <li>● Operating Temperature : -40°C ~75°C</li> <li>● Storage Temperature: -40°C~85°C</li> <li>● Operating Humidity: 5% to 95% (Non-condensing)</li> </ul>
<b>Housing</b>	● Rugged Metal + Aluminum, IP30 Protection
<b>Dimension</b>	● 142 x 42.8 x 105mm (LxWxD)
<b>Installation mounting</b>	● DIN Rail or Wall Mount options included
<b>Safety</b>	● LVD (EN62368-1)
<b>EMC</b>	● CE, FCC, EN 55032/35
<b>EMI</b>	● CISPR 32, FCC Part 15B Class A
<b>EMS</b>	<ul style="list-style-type: none"> <li>● IEC 61000-4-2 ESD: Contact: 6KV; Air: 8KV</li> <li>● IEC 61000-4-4 EFT: Power: 2KV; Signal: 2KV</li> <li>● IEC 61000-4-5 Surge: Power: 2KV; Signal: 2KV</li> </ul>
<b>Vibration</b>	● EN 60068-2-6
<b>Shock</b>	● EN 60068-2-27
<b>Free Fall</b>	● EN 60068-2-32

## Diagram



## Ordering information

**RP-IPGU421** 4-P Gigabit 90W PoE + 1-TP/SFP combo + 1-SFP(100/1G) slot Industrial Switch (240W)