



## RP-IPGU402

### **4-P Gigabit UPoE + 2-SFP(100/1G) slot Industrial Switch**

RP-IPGU402 Industrial 6 port Gigabit Switch with Ultra POE feature complies with IEEE802.3af and IEEE802.3at. It delivers 60watts power per PoE port and generates a total of 240 watts power to PD devices, and 2 SFP slots are supported.

RP-IPGU402 provides redundant dual DC 48V-56V power input, especially for IP surveillance, traffic monitoring and for a broad range of applications. It can be used as a stand-alone device for buses, trucks, and other vehicles for Surveillance purposes.

With IP-30 standard industrial case protection ,RP-IPGU402 allows either DIN rail or wall mounting thereby making its usability more flexible. Its wide operating temperature ranges from -40°C to 75°C for harsh environment.

## Features

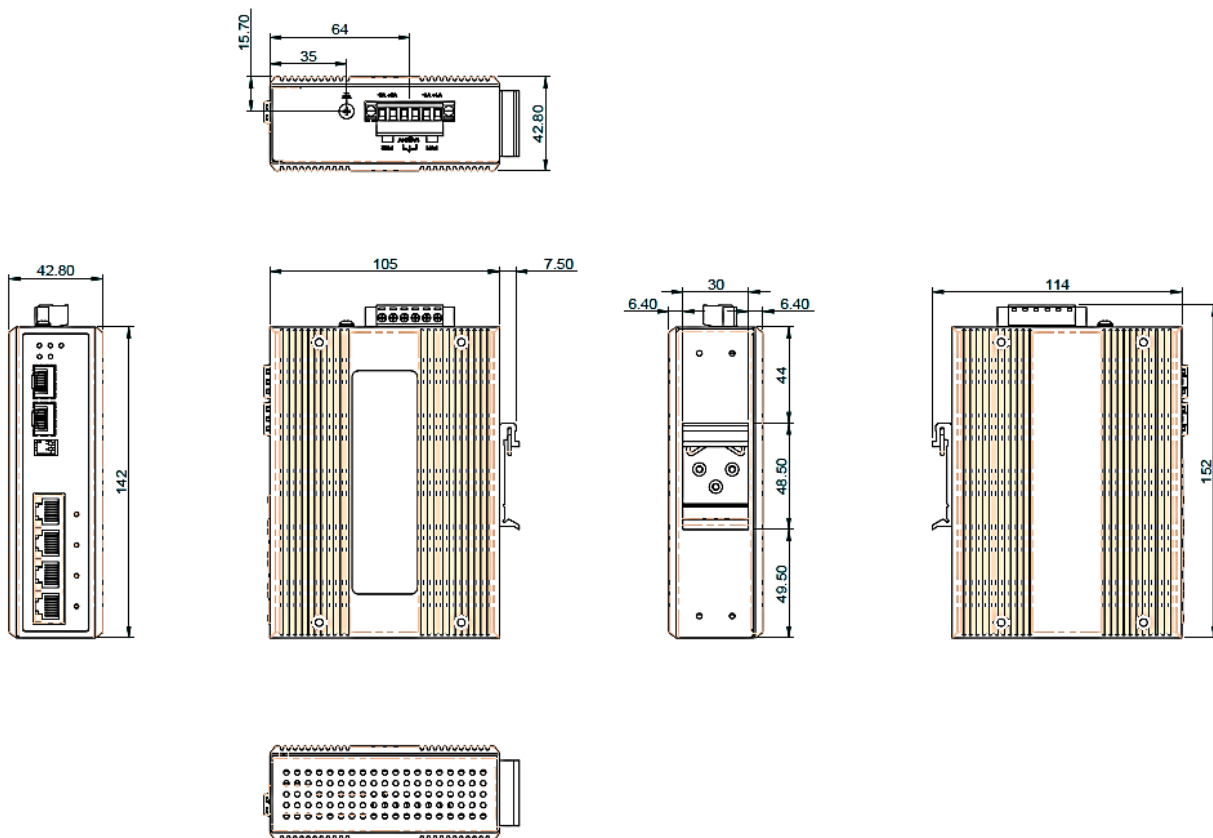
- Support 802.3 at/ af/ UPoE, and total up to 240W
- SFP port supports 100Base-FX and 1000Base-X speed
- Support 48~56VDC power inputs for power redundancy
- Supports auto-negotiation and auto-MDI/MDI-X
- Supports store and forward transmission
- Supports flow control
- Rigid IP-30 Aluminum heat sink housing design
- DIN-Rail and wall mounting enabled

## Specifications

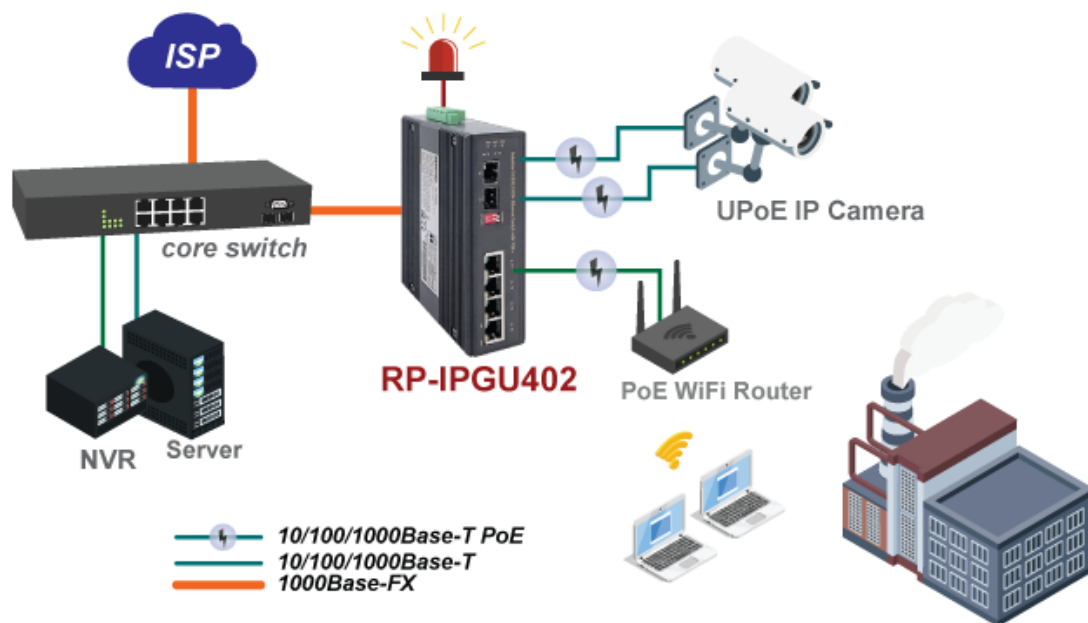
<b>Standards</b>	<ul style="list-style-type: none"> <li>• IEEE 802.3 10Base-T Ethernet</li> <li>• IEEE 802.3u 100Base-TX Fast Ethernet</li> <li>• IEEE 802.3ab 1000Base-T Gigabit Ethernet</li> <li>• IEEE 802.3z 1000Base-X Gigabit Ethernet</li> <li>• IEEE802.3x Flow Control and Back Pressure,</li> <li>• IEEE802.3af for POE</li> <li>• IEEE802.3at for 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 RJ-45 Port: 10/100/1000BaseT(X) auto negotiation, UPoE 60W 802.3at/af PSE port, Auto MDI/MDI-X, Full/Half duplex</li> <li>• 2 SFP slots: 100/1000M Base-X Auto MDI/MDI-X, Full/Half duplex</li> </ul>
<b>Network Cable</b>	<ul style="list-style-type: none"> <li>• UTP/STP above Cat.5e Cable, EIA/TIA-568 100-ohm (100m)</li> <li>• Fiber Cable (Multi-mode):50/125um,62.5/125um</li> <li>• Fiber Cable (Single-mode): 9/125um</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>• TX/RJ-45 port: LNK (Link/Active) Green, SPD(Speed) 10/100(OFF),1000 (Green)</li> <li>• SFP Fiber Per port: Link (Green) , Active Flash</li> </ul>
<b>DIP Switch</b>	<ul style="list-style-type: none"> <li>• DIP 1: OFF/ON: Port 5 SFP</li> <li>• DIP 2: OFF/ON: SFP 1000M (Default) / 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 48V-56V Power Input</li> <li>• POE input 48-56VDC</li> </ul>
<b>Power Consumption</b>	<ul style="list-style-type: none"> <li>• 5.76W@48 VDC full load, Without PoE</li> <li>• Max total power 240 Watts,</li> <li>• Max per port 60Watts</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 budget</b>	<ul style="list-style-type: none"> <li>• POE power per port 60watts. Maximum total power 240Watts Supports IEEE802.3af/at</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> </ul>

	<ul style="list-style-type: none"> <li>Operating Humidity: 5% to 95% (Non-condensing)</li> </ul>
Housing	<ul style="list-style-type: none"> <li>Rugged Aluminum, IP30 Protection</li> </ul>
Dimension	<ul style="list-style-type: none"> <li>142 x 43 x 105mm (LxWxD)</li> </ul>
Installation mounting	<ul style="list-style-type: none"> <li>DIN Rail mounting and Wall Mounting</li> </ul>
EMC/EMS	<ul style="list-style-type: none"> <li>CE, FCC</li> </ul>
EMI	<ul style="list-style-type: none"> <li>FCC Part 15 Subpart B Class A</li> <li>CE EN 55022 Class A</li> </ul>
Safety	<ul style="list-style-type: none"> <li>IEC EN60950-1</li> </ul>
Stability Testing	<ul style="list-style-type: none"> <li>EN 60068-2-6 (Vibration), EN 60068-2-27(Shock), EN 60068-2-32(Free Fall)</li> </ul>

## Diagram



## Application



## Ordering information

**RP-IPGU402**      4-P Gigabit UPoE + 2-SFP(100/1G) slot Industrial Switch