



## RP-ISG401F

### 5-P slim type Gigabit Industrial Switch

RP-ISG401F provides 5 Gigabit Ethernet ports which are designed for supporting standard industrial applications without complex setup to make the network truly plug-and-play. It can be used to connect several Ethernet devices like Ethernet I/O, IP-Camera or other Ethernet switches. In addition, it provides wide power input voltage range +12 ~ +58Vdc for application flexibility which secures equipment against unregulated voltage and makes systems safer and more reliable.

With the 5 10/100/1000Mbps Gigabit Ethernet ports, RP-ISG401F provides non-blocking switch fabric and wire-speed throughput as high as 10Gbps, RP-ISG401F 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.

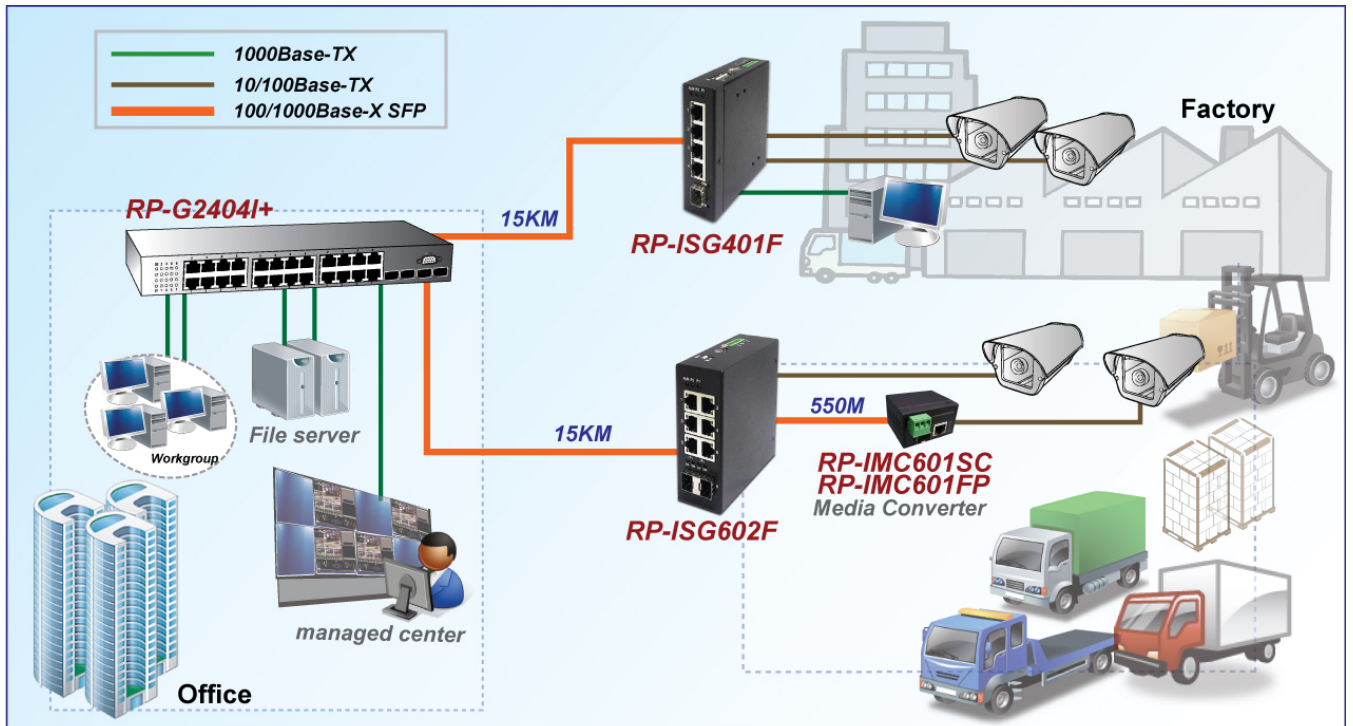
### Feature

- RJ-45 port support Auto MDI/MDI-X Function
- Store-and-Forward Switching Architecture
- Back-plane (Switching Fabric): 10Gbps
- IEEE 802.3x flow control & back-pressure
- 9K Jumbo frames
- 2K MAC forwarding addresses
- L2 wire-speed switching engine
- Queues per port: 4
- Support 802.1p & TOS/DS QoS
- Support Multicast/Broadcast/Flooding Storm Control
- Wide-range Redundant Power design 12~58 VDC, removable terminal block for two power input
- Reverse power protection
- Hardware DIP-switch to enable/disable warning function
- IP-30 metal case protection
- DIN rail and wall mount design

## Specification

<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> </ul>
<b>Switch Architecture</b>	<ul style="list-style-type: none"> <li>• Back-plane (Switching Fabric): 10Gbps</li> </ul>
<b>Transfer Rate</b>	<ul style="list-style-type: none"> <li>• 14,880pps for Ethernet port</li> <li>• 148,800pps for Fast Ethernet port</li> <li>• 1,488,000pps for Gigabit Fiber Ethernet port</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>• 9K Bytes</li> </ul>
<b>MAC Table Size</b>	<ul style="list-style-type: none"> <li>• 2K</li> </ul>
<b>Network Connector</b>	<ul style="list-style-type: none"> <li>• RJ-45 Port: 10/100/1000BaseT(X) auto negotiation, Auto MDI/MDI-X function, Full/Half duplex</li> <li>• SFP Port: 100/1000BaseSFP slot (RP-ISG401F)</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> </ul>
<b>Protocol</b>	<ul style="list-style-type: none"> <li>• CSMA/CD</li> </ul>
<b>Flow control</b>	<ul style="list-style-type: none"> <li>• IEEE 802.3x (Full Duplex) and Back-Pressure (Half Duplex)</li> </ul>
<b>QoS</b>	<ul style="list-style-type: none"> <li>• IEEE 802.1p</li> </ul>
<b>Number of queues</b>	<ul style="list-style-type: none"> <li>• 4</li> </ul>
<b>Traffic Shaper</b>	<ul style="list-style-type: none"> <li>• Port-based Port shaping</li> </ul>
<b>Storm Control</b>	<ul style="list-style-type: none"> <li>• Multicast/Broadcast/Flooding Storm Control per system basis enable/disable</li> </ul>
<b>Dip switch</b>	<ul style="list-style-type: none"> <li>• Dip 1: On/Off - Power alarm</li> <li>• Dip 2: On/Off - Broadcast storm rate limit</li> <li>• Dip 3~6: Not used</li> </ul>
<b>LED indicators</b>	<ul style="list-style-type: none"> <li>• P1(Green), P2(Green), Alarm (Red)</li> <li>• Link/Act (Green): Ethernet link up</li> <li>• Link/Act (Yellow): On- 1000Mbps ; Off-10Mbps or 100 Mbps</li> </ul>
<b>Power Consumption</b>	<ul style="list-style-type: none"> <li>• 4.5W@48VDC full load</li> </ul>
<b>Power Supply</b>	<ul style="list-style-type: none"> <li>• Redundant Input Terminals 12-58 VDC</li> </ul>
<b>Operating Temperature</b>	<ul style="list-style-type: none"> <li>• -40 to +75°C (cold startup at -40°C)</li> </ul>
<b>Storage Temperature</b>	<ul style="list-style-type: none"> <li>• -40 to +85 °C</li> </ul>
<b>Operating Humidity</b>	<ul style="list-style-type: none"> <li>• 5% to 95% (Non-condensing)</li> </ul>
<b>Case</b>	<ul style="list-style-type: none"> <li>• Rugged Metal, IP30 Protection</li> </ul>
<b>Dimension</b>	<ul style="list-style-type: none"> <li>• 112.2(H) x 29.1(W) x 89.4(D) (without DIN rail clip)</li> </ul>
<b>Installation mounting</b>	<ul style="list-style-type: none"> <li>• DIN Rail mounting and Wall Mounting</li> </ul>
<b>Certification</b>	<ul style="list-style-type: none"> <li>• CE/FCC</li> </ul>
<b>EMI</b>	<ul style="list-style-type: none"> <li>• FCC Part 15, CISPR 22 (EN55022) Class A IEC61000-4-2, -3, -4, -5, -6 (Level 3)</li> </ul>

## Application



## Ordering information

**RP-ISG401F** 4-P Gigabit +1-SFP(100/1G) slot slim type Industrial Switch

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