



## **RP-ISG3204I-2F**

### **4-P Gigabit + 2-SFP(100/1G) slot L2 Managed Industrial Ethernet Switch**

RP-ISG3204I-2F is an industrial Ethernet Switch designed for challenging environments. It features 4 ports for 10/100/1000-T and 2 ports for 100/1000Base-X fiber optics, ensuring high-speed connectivity. Its standout feature is support for ERPS redundant networks, offering rapid self-recovery in under 20ms, making it ideal for building reliable Ethernet networks with a redundant ring topology. The switch provides versatile management, including Web/SNMP/Telnet, and advanced features like QoS, VLAN, IGMP, Port mirroring, 802.1X, LLDP, Fiber transceiver DDM, IPV6 management, and more.

RP-ISG3204I-2F is a cost-effective and user-friendly industrial Ethernet device. It simplifies networking in industrial settings, with features like a wide 12-58VDC power input range, redundant power design with polarity reverse protection, and a robust IP40-rated fan-less housing for harsh environments. It operates efficiently in temperatures from -40°C to 75°C. It's the top choice for heavy industrial facilities, transportation, oil & gas, chemical industries, IP Surveillance, and processing automation in harsh conditions.

RP-ISG3204I-2F is an industrial Ethernet Switch offering reliability, versatility, and ease of use. It thrives in challenging environments and ensures network stability. Its support for redundancy and advanced management features make it an ideal choice for various industrial applications, providing dependable connectivity and performance even in harsh conditions.

## **Features**

- 4\*10/100/1000Base-T RJ45 ports, 2\*100/1000Base-X SFP ports
- DC 12~58V input redundant power supply
- Support VLAN/Port Mirroring/IGMP/QoS/LLDP/802.1X/Fiber transceiver DDM
- Support IPV6 management/Web/SNMP,
- Support Telnet/TFTP/Web upgrading
- Support G.8032 ERPS protocol, recovery time ≤20ms
- Watchdog support
- Support 4KV surge protection and ESD: Air-15kV, Contact-8kV Protection

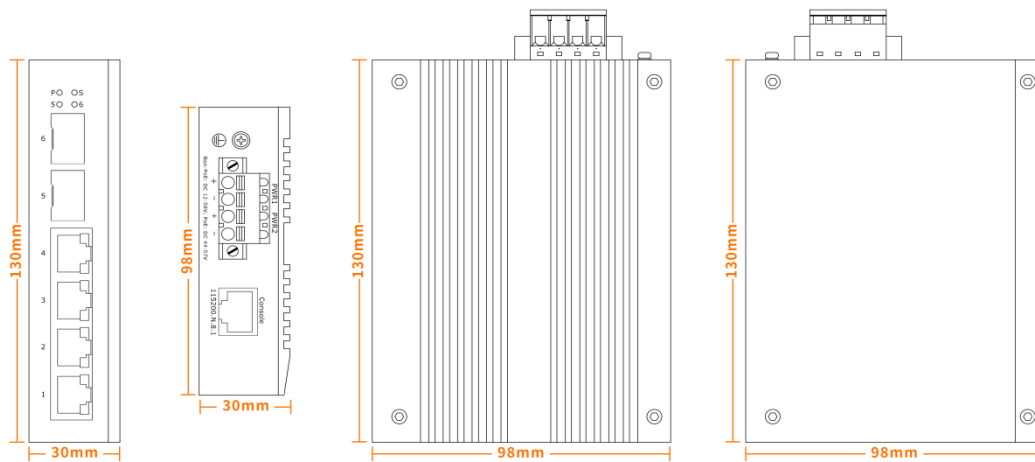
## Specifications

<b>Standards</b>	<ul style="list-style-type: none"> <li>• IEEE 802.3 10Base-T</li> <li>• IEEE 802.3u 100Base-TX</li> <li>• IEEE 802.3ab 1000Base-T</li> <li>• IEEE 802.3z 1000Base-X</li> <li>• IEEE 802.3x flow control and back pressure</li> <li>• IEEE 802.1D spanning tree protocol</li> <li>• IEEE 802.1w rapid spanning tree protocol</li> <li>• IEEE 802.1Q VLAN tagging</li> <li>• ITU-T G.8032 ERPS</li> <li>• IEEE 802.1X port authentication network control</li> <li>• IEEE 802.1ab LLDP</li> <li>• IEEE 802.3ad LACP</li> </ul>
<b>Interface</b>	<ul style="list-style-type: none"> <li>• 4 x 10/100/1000Base-T RJ45</li> <li>• 2 x 100/1000Base-X SFP slots</li> </ul>
<b>Management port</b>	<ul style="list-style-type: none"> <li>• RJ45 Console port</li> </ul>
<b>Switching capacity</b>	<ul style="list-style-type: none"> <li>• 12Gbps</li> </ul>
<b>Packet forwarding rate</b>	<ul style="list-style-type: none"> <li>• 17.8Mpps</li> </ul>
<b>MAC address table</b>	<ul style="list-style-type: none"> <li>• 8K</li> </ul>
<b>VLAN</b>	<ul style="list-style-type: none"> <li>• 4K</li> </ul>
<b>Buffer</b>	<ul style="list-style-type: none"> <li>• 1M bit</li> </ul>
<b>Forwarding delay</b>	<ul style="list-style-type: none"> <li>• &lt;5us</li> </ul>
<b>Jumbo Frame</b>	<ul style="list-style-type: none"> <li>• Support 10Kbytes</li> </ul>
<b>MDX/MIDX</b>	<ul style="list-style-type: none"> <li>• Support</li> </ul>
<b>Watchdog</b>	<ul style="list-style-type: none"> <li>• Support</li> </ul>
<b>Layer 2 function</b>	
<b>Port aggregation</b>	<ul style="list-style-type: none"> <li>• Support static aggregation</li> <li>• Support dynamic aggregation</li> </ul>
<b>Port features</b>	<ul style="list-style-type: none"> <li>• Support IEEE802.3x flow control,</li> <li>• Support Port traffic statistics</li> <li>• Support port isolation</li> <li>• Support network storm suppression based on port bandwidth percentage</li> </ul>
<b>VLAN</b>	<ul style="list-style-type: none"> <li>• Support access mode</li> <li>• Support trunk mode</li> <li>• Support hybrid mode</li> </ul>
<b>Port mirroring</b>	<ul style="list-style-type: none"> <li>• Support many to one port mirroring</li> </ul>
<b>Ring network protocol</b>	<ul style="list-style-type: none"> <li>• Support STP、RSTP</li> <li>• Support G.8032 ERPS protocol、single ring, sub Ring and associated sub ring</li> </ul>

	<ul style="list-style-type: none"> <li>• Recovery time <math>\leq 20\text{ms}</math></li> </ul>
<b>Multicast</b>	<ul style="list-style-type: none"> <li>• IGMP snooping</li> </ul>
<b>QoS</b>	<ul style="list-style-type: none"> <li>• Ingress Port-based Rate-limit</li> <li>• Egress Port-based Rate-limit</li> </ul>
<b>Security features</b>	<ul style="list-style-type: none"> <li>• Support 802.1x , port authentication , MAC authentication , RADIUS service</li> <li>• Support port isolation</li> </ul>
<b>Management and maintenance</b>	<ul style="list-style-type: none"> <li>• Support LLDP</li> <li>• Support user management and login authentication</li> <li>• Support SNMPV1/V2C/V3</li> <li>• Support web management, HTTP1.1, HTTPS</li> <li>• Support Syslog and alarm grading</li> <li>• Support RMON(Remote Monitoring) alarm</li> <li>• Support NTP</li> <li>• Support Ping, Tracert</li> <li>• Support optical transceiver DDM function</li> <li>• Support TFTP Client</li> <li>• Support Telnet Server</li> <li>• Support SSH Server</li> <li>• Support IPv6 Management</li> <li>• Support TFTP, web upgrading</li> </ul>
<b>Power parameter</b>	
<b>Input voltage</b>	<ul style="list-style-type: none"> <li>• 12-58VDC, redundant power input</li> </ul>
<b>Input current</b>	<ul style="list-style-type: none"> <li>• 0.5A Max</li> </ul>
<b>Total consumption</b>	<ul style="list-style-type: none"> <li>• Full loading <math>\leq 6\text{W}</math></li> </ul>
<b>Connector</b>	<ul style="list-style-type: none"> <li>• Removable 4-pin terminal block</li> </ul>
<b>Reverse polarity protection</b>	<ul style="list-style-type: none"> <li>• Support</li> </ul>
<b>Over-voltage protection</b>	<ul style="list-style-type: none"> <li>• Support</li> </ul>
<b>Mechanical structure</b>	
<b>LED Indicators</b>	<ul style="list-style-type: none"> <li>• P (Power indicator)</li> <li>• S (System status indicator)</li> <li>• 1-4 (Copper ports indicators) Green / Yellow</li> <li>• 5-6 (Fiber ports indicators) Green</li> </ul>
<b>Case protection</b>	<ul style="list-style-type: none"> <li>• IP40</li> </ul>
<b>Installation method</b>	<ul style="list-style-type: none"> <li>• Din-rail</li> </ul>
<b>Dimension</b>	<ul style="list-style-type: none"> <li>• 30*98*130mm (WxDxH)</li> </ul>
<b>Environment</b>	<ul style="list-style-type: none"> <li>• Operating temperature: <math>-40^{\circ}\text{C}\sim+75^{\circ}\text{C}</math></li> <li>• Storage temperature <math>-40^{\circ}\text{C}\sim+85^{\circ}\text{C}</math></li> <li>• Operating Humidity: 10 to 90% (Non-Condensing)</li> </ul>
<b>EMS</b>	<ul style="list-style-type: none"> <li>• Surge protection of power: IEC 61000-4-5 Level 3 (4KV/2KV) (8/20us)</li> </ul>

	<ul style="list-style-type: none"> <li>• Surge protection of Ethernet ports: IEC 61000-4-5 Level 3 (4KV/2KV) (10/700us)</li> <li>• DIP: IEC 61000-4-11 Level 3 (10V)</li> <li>• ESD: IEC 61000-4-2 Level 4 (8K/15K)</li> </ul>
<b>EMI</b>	• FCC Part 15B Class A
<b>Shock</b>	• IEC 60068-2-27
<b>Free fall</b>	• IEC 60068-2-32
<b>Vibration</b>	• IEC 60068-2-6

## Dimension



## Ordering information

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