



## **RP-IPG3204I-2F**

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

The RP-IPG3204I-2F is a highly durable industrial managed PoE switch featuring 4 10/100/1000-T PoE ports and 2 1000Base-X fiber interfaces. It supports IEEE802.3af/at PoE protocols, providing up to 30W per port, making it perfect for powering devices in demanding network environments.

With a robust switching capacity and support for ERPS redundant networks, the RP-IPG3204I-2F ensures rapid recovery times under full load. This enables reliable network configurations with backup solutions in place. It also offers advanced management features like QoS, VLAN, and PoE management to optimize network performance.

Built for challenging conditions, the device offers wide-range power inputs, redundant power protection, and is housed in a rugged IP40 fan-less enclosure. Its wide operating temperature range of -40°C to 75°C makes it ideal for industries like transportation, oil & gas, and IP surveillance.

## **Features**

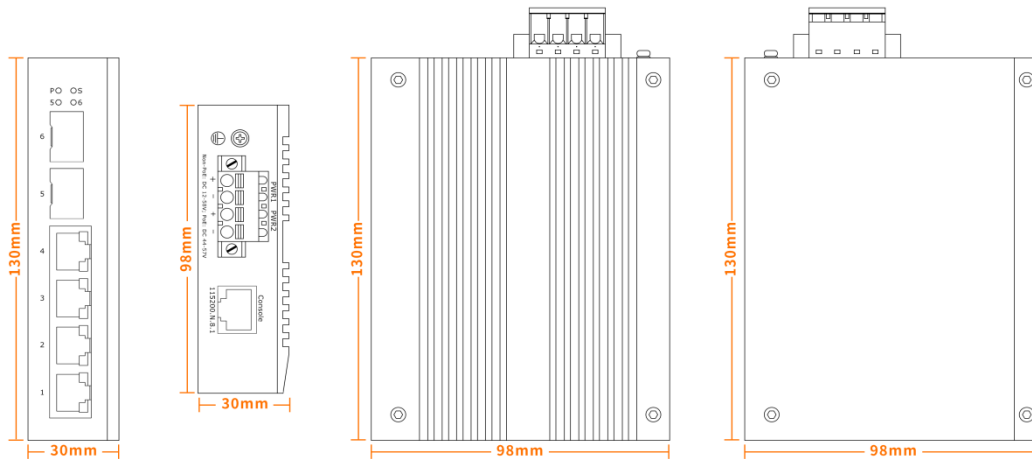
- DC 44~57V input, redundant power supply with polarity reverse/over-voltage protection
- Complies with IEEE802.3af PoE and IEEE802.3at PoE+ standard
- Comprehensive Management: Supports Web/SNMP/Telnet management, including QoS, VLAN, IGMP, 802.1X, LLDP, and PoE management.
- Support G.8032 ERPS protocol, recovery time  $\leq 20\text{ms}$
- Support 4KV surge protection and ESD: Air-15kV, Contact-8kV Protection
- Durable designed with a rugged IP40-rated enclosure and Din-rail mounting
- Wide operation temperature: -40°C ~+75°C

## Specifications

<b>Standards</b>	<ul style="list-style-type: none"> <li>• IEEE 802.3 10Base-T Ethernet</li> <li>• IEEE 802.3u 100Base-TX Ethernet</li> <li>• IEEE 802.3ab 1000Base-T Ethernet</li> <li>• IEEE 802.3z 1000Base-X Ethernet</li> <li>• IEEE802.3x 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> <li>• IEEE 802.3af Power-Over-Ethernet</li> <li>• IEEE 802.3at Power Over Ethernet plus PSE</li> </ul>
<b>Interface</b>	<ul style="list-style-type: none"> <li>• 4 x 10/100/1000Base-T RJ45 PoE</li> <li>• 2 x 100/1000Base-X SFP</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> <li>• Recovery time ≤20ms</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</b>	<ul style="list-style-type: none"> <li>• Support 802.1x , port authentication , MAC authentication , RADIUS service</li> </ul>

	<ul style="list-style-type: none"> <li>• Support port isolation</li> </ul>
<b>Management &amp; 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, Traceroute</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 PoE management</li> <li>• Support TFTP, web upgrading</li> </ul>
<b>Power parameter</b>	
<b>Input voltage</b>	<ul style="list-style-type: none"> <li>• 44-57VDC, redundant power input</li> </ul>
<b>Input current</b>	<ul style="list-style-type: none"> <li>• 3A Max</li> </ul>
<b>PoE power</b>	<ul style="list-style-type: none"> <li>• Full loading without PoE <math>\leq 6W</math></li> <li>• PoE power budget <math>\leq 120W</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 / (PoE status indicators) 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 x 98 x 130mm (WxHxD)</li> </ul>
<b>Environment</b>	<ul style="list-style-type: none"> <li>• Operating temperature: <math>-40^{\circ}C \sim +75^{\circ}C</math></li> <li>• Storage temperature <math>-40^{\circ}C \sim +85^{\circ}C</math></li> <li>• Operating Humidity: 10 to 90% (Non-Condensing)</li> <li>• Storage humidity: 5%-95%RH</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> <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> <li>• Shock : IEC 60068-2-27</li> <li>• Free fall : IEC 60068-2-32</li> <li>• Vibration : IEC 60068-2-6</li> </ul>
<b>Certification</b>	<ul style="list-style-type: none"> <li>• CE, FCC</li> </ul>

## Dimension



## Ordering information

**RP-IPG3204I-2F** 4-P Gigabit PoE + 2-SFP(100/1G) slot L2 Managed Industrial PoE Switch (120W)