



## **RP-IPG6308I-8F**

### **8-P Gigabit PoE + 4-SFP(100/1G) slot + 4-SFP (1G/2.5G) slot L2+ Managed Industrial PoE Switch**

RP-IPG6308I-8F is the highly reliable Layer 2+ managed industrial PoE switch with 8-port 10/100/1000-T PoE, 4\*100/1000Base-X SFP and 4-port 1G/2.5GBase-X SFP slots. It delivers 30watts power per PoE port and generates a total of 240Watts power to PD devices, With full gigabit capability, it delivers high-performance data transfer across industrial networks.

RP-IPG6308I-8F supports ERPS redundant network and the self-recovery mechanism is less than 20ms on full load which allows you to scheme a reliable Ethernet network by building a redundant ring topology as your back-up solution., The switch also support Layer 3 static routing and robust management features. With wide range voltage input 44-57VDC and redundant power design, it is ideal for large-scale industrial networks.

With IP40-rated rugged case protection allows for either DIN rail or wall mounting for efficient use of cabinet space. Its wide operating temperature ranges from -40°C to 75°C, RP-IPG6308I-8F is the best choice for heavy industrial factory, transportation, oil & gas, chemical, IP Surveillance and processing automation area where environmental conditions are harsh and critical.

## **Features**

- Redundant power DC 44-57V input with polarity reverse/over-voltage/over-current protection
- Support one digital output for relay alarm (terminal block Pin 5/6)
- Complies with IEEE802.3af PoE and IEEE802.3at PoE+ standard
- Layer 3 feature: Support IPv4/IPv6 static routing
- Support Layer 2 management function: VLAN/VLAN Classification/QinQ/STP, RSTP, MSTP/Port Mirroring/DHCP/Multicast/ACL/IGMP/QoS/LLDP/802.1X/Dying Gasp/SFP DDM/PoE management/IPV6 management/Web/SNMP/Telnet/TFTP/Web upgrading
- Support G.8032 ERPS protocol, recovery time  $\leq 20$ ms
- Support 6KV surge protection and ESD: Air-15kV, Contact-8kV Protection
- IP40 fan-less and Din-rail hardware design
- Operation temperature: -40°C ~+75°C

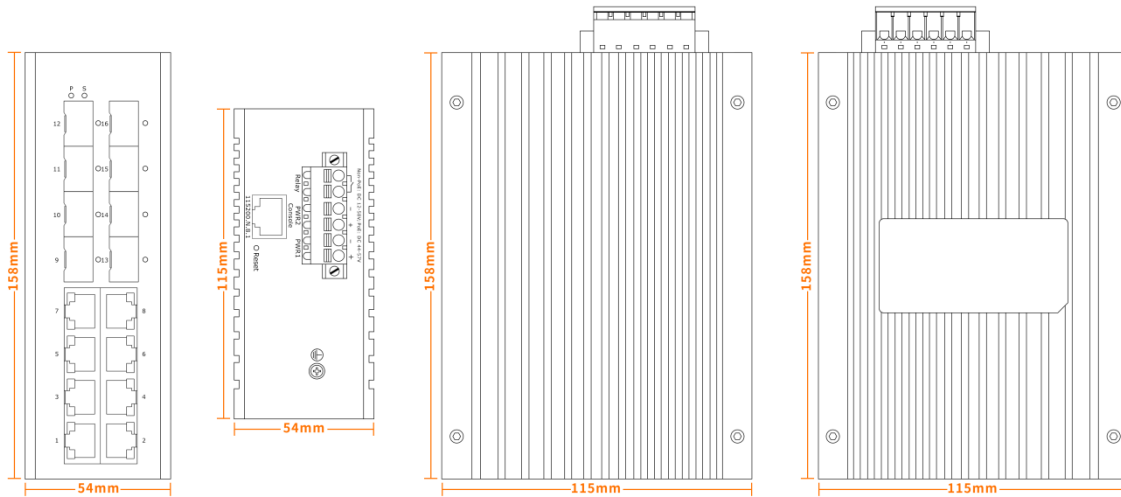
## Specifications

<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</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 PoE</li> <li>• IEEE 802.3at PoE+</li> </ul>
<b>Interface</b>	<ul style="list-style-type: none"> <li>• 8 x 10/100/1000Base-T RJ45 PoE</li> <li>• 4 x 100/1000Base-X SFP (13-16 ports)</li> <li>• 4 x 1G/2.5GBase-X SFP (9-12 ports)</li> </ul>
<b>Management port</b>	<ul style="list-style-type: none"> <li>• 1 x RJ45 Console port</li> </ul>
<b>Alarm port</b>	<ul style="list-style-type: none"> <li>• One digital output for relay alarm, alarm relay current carry ability: 1A@24VDC</li> </ul>
<b>Switching capacity</b>	<ul style="list-style-type: none"> <li>• 44Gbps</li> </ul>
<b>Packet forwarding rate</b>	<ul style="list-style-type: none"> <li>• 65.4Mpps</li> </ul>
<b>MAC address table</b>	<ul style="list-style-type: none"> <li>• 16K</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>• 12M 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 GE port aggregation</li> <li>• Support 2.5GE aggregation</li> <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>VLAN Classification</b>	<ul style="list-style-type: none"> <li>• Mac Based VLAN</li> <li>• IP Based VLAN</li> </ul>

	<ul style="list-style-type: none"> <li>• Protocol Based VLAN</li> </ul>
<b>QinQ</b>	<ul style="list-style-type: none"> <li>• Port-based QinQ</li> <li>• VLAN-based QinQ</li> <li>• Flow-based QinQ</li> </ul>
<b>Port mirroring</b>	<ul style="list-style-type: none"> <li>• Many to one port mirroring</li> </ul>
<b>Ring network protocol</b>	<ul style="list-style-type: none"> <li>• Support STP、RSTP、MSTP</li> <li>• Support G.8032 ERPS protocol、single ring, sub Ring and associated sub ring</li> <li>• Recovery time ≤20ms</li> </ul>
<b>DHCP</b>	<ul style="list-style-type: none"> <li>• Support DHCP Client</li> <li>• Support DHCP Snooping</li> </ul>
<b>Multicast</b>	<ul style="list-style-type: none"> <li>• IGMP snooping</li> </ul>
<b>ACL</b>	<ul style="list-style-type: none"> <li>• IP Standard ACL</li> <li>• MAC extend ACL</li> <li>• IP extend ACL</li> </ul>
<b>QoS</b>	<ul style="list-style-type: none"> <li>• Support QoS Class, Remarking</li> <li>• Support SP, WRR queue scheduling</li> <li>• Ingress Port-based Rate-limit</li> <li>• Egress Port-based Rate-limit</li> <li>• Support Policy-based QoS</li> </ul>
<b>Security</b>	<ul style="list-style-type: none"> <li>• Support Dot1x、port authentication、MAC authentication、RADIUS service</li> <li>• Support port-security</li> <li>• Support IP Source Guard、IP/Port/MAC binding</li> <li>• Support ARP-check and ARP packet filtering for illegal users</li> <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 temperature monitoring</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 PoE management</li> <li>• Support TFTP, web upgrading</li> </ul>
<b>Layer 3 function</b>	
<b>ARP</b>	<ul style="list-style-type: none"> <li>• ARP table aging</li> </ul>
<b>IPv4 / IPv6</b>	<ul style="list-style-type: none"> <li>• Static routing</li> </ul>

Power parameter	
Input voltage	<ul style="list-style-type: none"> <li>• 44-57VDC</li> <li>• redundant power input</li> </ul>
Input current	<ul style="list-style-type: none"> <li>• 5.8A Max</li> </ul>
PoE power	<ul style="list-style-type: none"> <li>• Full loading without PoE≤18W</li> <li>• PoE power budget ≤ 240W</li> </ul>
Connector	<ul style="list-style-type: none"> <li>• Removable 6-pin terminal block, Pin 5-6 for relay alarm</li> </ul>
Reverse polarity protection	<ul style="list-style-type: none"> <li>• Support</li> </ul>
Over-voltage protection	<ul style="list-style-type: none"> <li>• Support</li> </ul>
Over-current protection	<ul style="list-style-type: none"> <li>• Support</li> </ul>
Mechanical structure	
LED Indicators	<ul style="list-style-type: none"> <li>• P (Power indicator)</li> <li>• S (System status indicator)</li> <li>• 1-8 (Copper ports indicators) Green / (PoE) Yellow</li> <li>• 9-16 (Fiber ports indicators) Green</li> </ul>
Case protection	<ul style="list-style-type: none"> <li>• IP40</li> </ul>
Installation method	<ul style="list-style-type: none"> <li>• Din-rail</li> </ul>
Dimension	<ul style="list-style-type: none"> <li>• 54x158x115mm (WxHxD)</li> </ul>
Environment	<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: 10 to 90% (Non-Condensing)</li> </ul>
EMS	<ul style="list-style-type: none"> <li>• Surge protection of power: IEC 61000-4-5 DC:6KV/4KV (8/20us)</li> <li>• Surge protection of Ethernet ports: IEC 61000-4-5 6KV/2KV (10/700us)</li> <li>• RS: IEC 61000-4-3 80 MHz-1 GHz:10 V/m</li> <li>• EFT: IEC 61000-4-4 power 4K, signal 2K</li> <li>• CS: IEC 61000-4-6 10V</li> <li>• ESD: IEC 61000-4-2 Contact: 8K; Air: 15K</li> </ul>
EMI	<ul style="list-style-type: none"> <li>• FCC Part 15B Class A</li> </ul>
Shock	<ul style="list-style-type: none"> <li>• IEC 60068-2-27</li> </ul>
Free fall	<ul style="list-style-type: none"> <li>• IEC 60068-2-32</li> </ul>
Vibration	<ul style="list-style-type: none"> <li>• IEC 60068-2-6</li> </ul>
Certification	<ul style="list-style-type: none"> <li>• CCC/CE/FCC/RoHS</li> </ul>

## Dimension



## Ordering information

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