

RP-IPG6204I-2F

4-P Gigabit PoE + 2-SFP(1G/2.5G) slot L2 Managed Industrial PoE Switch

RP-IPG6204I-2F is the highly reliable managed industrial PoE switch with 4-port 10/100/1000-T PoE and 2-port 1G/2.5GBase-X fiber optical interfaces. The switch complies with IEEE802.3af and IEEE802.3at standards for PoE, offering up to 30W per port for PoE+ devices.

RP-IPG6204I-2F 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. RP-IPG6204I-2F also supports robust layer 2 management function, which can fulfill the special needs of industrial automation applications. The switch features wide range power input (44-57VDC) and redundant power design with polarity reverse protection, guaranteeing reliable and stable power supply.

RP-IPG6204I-2F is the high cost-effective easy-to-use device, which provides essential industrial Ethernet networking function. The switch equips robust IP40 fan-less housing with Din-rail installation, as well as wide operation temperature from -40°C to 75°C. It 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
- Complies with IEEE802.3af PoE and IEEE802.3at PoE+ standard
- 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 ≤20ms
- 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

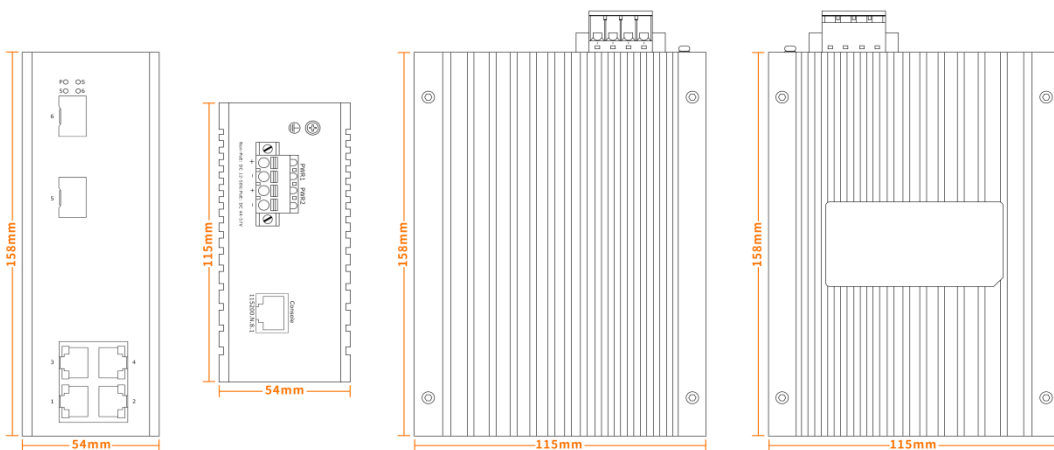
Specifications

Standards	<ul style="list-style-type: none"> • IEEE 802.3 10Base-T Ethernet • IEEE 802.3u 100Base-TX Ethernet • IEEE 802.3ab 1000Base-T Ethernet • IEEE 802.3z 1000Base-X Ethernet • IEEE802.3x Flow Control and Back Pressure • IEEE 802.1D Spanning Tree Protocol • IEEE 802.1w Rapid Spanning Tree Protocol • IEEE 802.1Q VLAN • ITU-T G.8032 ERPS • IEEE 802.1X Port Authentication Network Control • IEEE 802.1ab LLDP • IEEE 802.3ad LACP • IEEE 802.3af Power-Over-Ethernet • IEEE 802.3at Power Over Ethernet plus PSE
Interface	<ul style="list-style-type: none"> • 4 x 10/100/1000Base-T RJ45 PoE • 2 x 1000/2500Base-X SFP
Management port	<ul style="list-style-type: none"> • RJ45 Console port
Switching capacity	<ul style="list-style-type: none"> • 18Gbps
Packet forwarding rate	<ul style="list-style-type: none"> • 26.7Mpps
MAC address table	<ul style="list-style-type: none"> • 16K
VLAN	<ul style="list-style-type: none"> • 4K
Buffer	<ul style="list-style-type: none"> • 12Mbit
Forwarding delay	<ul style="list-style-type: none"> • <5us
Jumbo Frame	<ul style="list-style-type: none"> • Support 10Kbytes
MDX/MIDX	<ul style="list-style-type: none"> • Support
Watchdog	<ul style="list-style-type: none"> • Support
Layer 2 function	
Port aggregation	<ul style="list-style-type: none"> • Support GE port aggregation • Support 2.5GE aggregation • Support static aggregation • Support dynamic aggregation
Port features	<ul style="list-style-type: none"> • Support IEEE802.3x flow control, • Support port traffic statistics, • Support port isolation • Support network storm suppression based on port bandwidth percentage
VLAN	<ul style="list-style-type: none"> • Support access mode • Support trunk mode • Support hybrid mode
VLAN Classification	<ul style="list-style-type: none"> • Mac Based VLAN • IP Based VLAN • Protocol Based VLAN
QinQ	<ul style="list-style-type: none"> • Port-based QinQ • VLAN-based QinQ

	<ul style="list-style-type: none"> • Flow-based QinQ
Port mirroring	<ul style="list-style-type: none"> • Many to one port mirroring
Ring network protocol	<ul style="list-style-type: none"> • Support STP 、RSTP 、MSTP • Support G.8032 ERPS protocol 、single ring, sub Ring and associated sub ring • Recovery time $\leq 20\text{ms}$
DHCP	<ul style="list-style-type: none"> • Support DHCP Client • Support DHCP Snooping
Multicast	<ul style="list-style-type: none"> • IGMP snooping
ACL	<ul style="list-style-type: none"> • IP Standard ACL • MAC extend ACL • IP extend ACL
QoS	<ul style="list-style-type: none"> • Support QoS Class, Remarking • Support SP, WRR queue scheduling • Ingress Port-based Rate-limit • Egress Port-based Rate-limit • Support Policy-based QoS
Security	<ul style="list-style-type: none"> • Support Dot1x 、port authentication 、MAC authentication 、RADIUS service • Support port-security • Support IP Source Guard 、IP/Port/MAC binding • Support ARP-check and ARP packet filtering for illegal users • Support port isolation
Management & maintenance	<ul style="list-style-type: none"> • Support LLDP • Support user management and login authentication • Support SNMPV1/V2C/V3 • Support web management, HTTP1.1, HTTPS • Support Syslog and alarm grading • Support RMON(Remote Monitoring) alarm • Support NTP • Support temperature monitoring • Support Ping , TRACERT • Support optical transceiver DDM function • Support TFTP Client • Support Telnet Server • Support SSH Server • Support IPv6 Management • Support PoE management • Support TFTP, web upgrading
Power parameter	
Input voltage	<ul style="list-style-type: none"> • 44-57VDC, redundant power input
Input current	<ul style="list-style-type: none"> • 3A Max
PoE power	<ul style="list-style-type: none"> • Full loading without PoE$\leq 8\text{W}$ • PoE power budget $\leq 120\text{W}$
Connector	<ul style="list-style-type: none"> • Removable 4-pin terminal block

Reverse polarity protection	<ul style="list-style-type: none"> • Support
Over-voltage protection	<ul style="list-style-type: none"> • Support
Over-current protection	<ul style="list-style-type: none"> • Support
Mechanical structure	
LED Indicators	<ul style="list-style-type: none"> • P (Power indicator) • S (System status indicator) • 1-4 (Copper ports indicators) Green / (PoE status indicators) Yellow • 5-6 (Fiber ports indicators) Green
Mechanical structure	
Case protection	<ul style="list-style-type: none"> • IP40
Installation method	<ul style="list-style-type: none"> • Din-rail
Dimension	<ul style="list-style-type: none"> • 54x158x115mm (WxHxD)
Environment	<ul style="list-style-type: none"> • Operating temperature: -40°C~+75°C • Storage temperature -40°C~+85°C • Operating Humidity: 10 to 90% (Non-Condensing)
EMS	<ul style="list-style-type: none"> • Surge protection of power: IEC 61000-4-5 DC:6KV/4KV (8/20us) • Surge protection of Ethernet ports: IEC 61000-4-5 6KV/2KV (10/700us) • RS: IEC 61000-4-3 80 MHz-1 GHz:10 V/m • EFT: IEC 61000-4-4 power 4K, signal 2K • CS: IEC 61000-4-6 10V • ESD: IEC 61000-4-2 Contact: 8K; Air: 15K
EMI	<ul style="list-style-type: none"> • FCC Part 15B Class A
Shock	<ul style="list-style-type: none"> • IEC 60068-2-27
Free fall	<ul style="list-style-type: none"> • IEC 60068-2-32
Vibration	<ul style="list-style-type: none"> • IEC 60068-2-6
Certification	<ul style="list-style-type: none"> • CCC/CE/FCC/RoHS

Dimension



Ordering information

RP-IPG6204I-2F 4-P Gigabit PoE + 2-SFP(1G/2.5G) slot L2 Managed Industrial PoE Switch
(120W)

Brief Features

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- Complies with IEEE802.3af / .3at PoE+ standard
- 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
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