

RP-IPG6208I-2F

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

The RP-IPG6208I-2F is a reliable industrial PoE switch with 8-port 10/100/1000-T PoE and 2-port 1G/2.5G Base-X SFP. 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-IPG6208I-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-IPG6208I-2F supports robust layer 2 management function, which can fulfill the special needs of industrial automation applications.

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-IPG6208I-2F 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
- Layer 3 features: Support IPv4/IPv6 static routing, DHCP server
- 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 ≤ 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

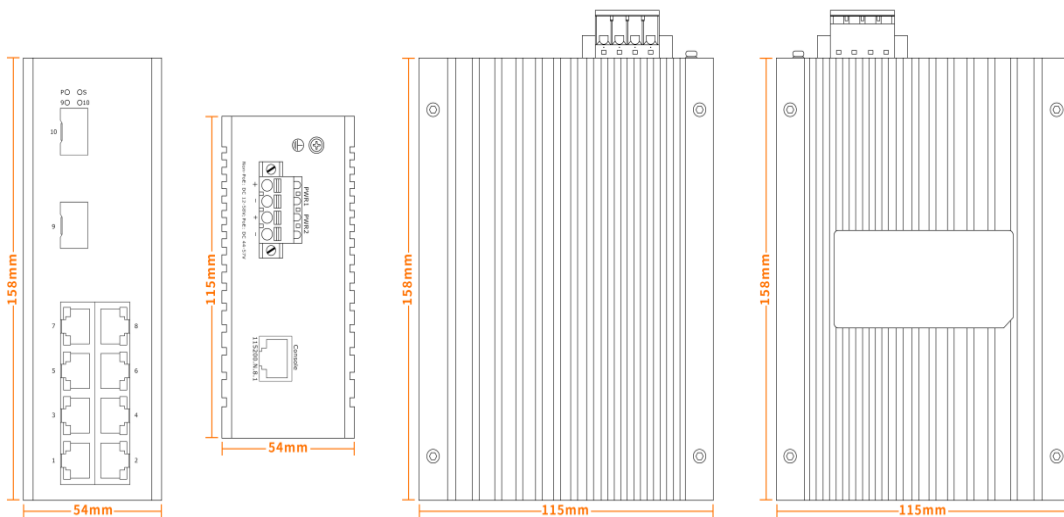
Standards	<ul style="list-style-type: none"> • IEEE 802.3 10Base-T Ethernet • IEEE 802.3u 100Base-TX Ethernet • IEEE 802.3ab 1000Base-T Ethernet • IEEE 802.3z 1000Base-X Ethernet • IEEE802.3x Flow Control and Back Pressure • IEEE 802.1D Spanning Tree Protocol • IEEE 802.1w Rapid Spanning Tree Protocol • 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"> • 8 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"> • 26Gbps
Packet forwarding rate	<ul style="list-style-type: none"> • 38.6Mpps
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"> • 12M bit
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 • Up to 64 aggregation groups and up to 8 ports per group
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 • Support loop detection(Port-based; VLAN-based) • Support broadcast storm suppression(broadcast; unknown multicast; unknown unicast)
Mac-address table management	<ul style="list-style-type: none"> • Support static Mac-address management • Support dynamic Mac-address Management • Support filtering Mac-address • Support MAC limit based on port and VLAN • Support MAC flapping based on port and VLAN
VLAN	<ul style="list-style-type: none"> • Support access mode • Support trunk mode

	<ul style="list-style-type: none"> • Support hybrid mode
VLAN Classification	<ul style="list-style-type: none"> • Mac Based VLAN • IP Based VLAN • Protocol Based VLAN
GVRP	<ul style="list-style-type: none"> • Normal mode • Fixed mode • Forbidden mode
QinQ	<ul style="list-style-type: none"> • Port-based QinQ • VLAN-based QinQ • Flow-based QinQ
LLDP	<ul style="list-style-type: none"> • LLDP (Link Layer Discovery Protocol)
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 $\leq 20\text{ms}$
L2 Multicast	
IGMP snooping	<ul style="list-style-type: none"> • Support IGMP snooping
Group address	<ul style="list-style-type: none"> • Support group address
Security functions	
ACL	<ul style="list-style-type: none"> • IP Standard ACL • MAC extend ACL • IP extend ACL • IPv6 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
802.1x	<ul style="list-style-type: none"> • Port access control • Mac-address access control • RADIUS server
Port-security	<ul style="list-style-type: none"> • Port-security
IP source guard	<ul style="list-style-type: none"> • IP Port/MAC binding
ARP-check	<ul style="list-style-type: none"> • Support ARP-check and ARP packet filtering for illegal users
Access control	<ul style="list-style-type: none"> • Support Telnet/SSH/HTTP/HTTPS user access control
Management & Maintenance functions	
User Management	<ul style="list-style-type: none"> • Support password protection • Support user authorization management
SNMP	<ul style="list-style-type: none"> • Supporting SNMP V1/V2C/V3 version
Web Management	<ul style="list-style-type: none"> • Web Management • Support HTTP V1.1 • Support HTTPS
CLI management	<ul style="list-style-type: none"> • Console/Telnet command line management
RMON	<ul style="list-style-type: none"> • Support RMON(Remote Monitoring) alarm
Firmware upgrade	<ul style="list-style-type: none"> • Firmware upgrade
Fault Detection	<ul style="list-style-type: none"> • Ping/Tracerout

	<ul style="list-style-type: none"> • Dying gasp • Support optical transceiver DDM function
Cable detection	<ul style="list-style-type: none"> • Support copper port cable detection
PoE management	<ul style="list-style-type: none"> • Support 802.3af/802.3at • Support PD watchdog • Support PoE priority management • Support Max PoE power configuration for each port • Support alarm waterline configuration • Support reserved power configuration
NTP	<ul style="list-style-type: none"> • Network Time Protocol
Syslog/Debug	<ul style="list-style-type: none"> • Syslog/Debug • Syslog send to three servers
Configuration import/export	<ul style="list-style-type: none"> • Support FTP/TFTP remote import/export • Support USB import/export
Dual partition management	<ul style="list-style-type: none"> • Support dual partition switching
Power parameter	
Input voltage	<ul style="list-style-type: none"> • 44-57VDC, redundant power input
Input current	<ul style="list-style-type: none"> • 5.6A Max
PoE power	<ul style="list-style-type: none"> • Full loading without PoE≤10W • PoE power budget ≤ 240W
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
Application Protocol Functions	
DHCP Snooping	<ul style="list-style-type: none"> • DHCP snooping trust port • Support remote-id/circuit-id configuration • DHCP option-82
DHCP client	<ul style="list-style-type: none"> • Support DHCP client
Telnet server	<ul style="list-style-type: none"> • Support telnet server
Telnet client	<ul style="list-style-type: none"> • Support telnet client
SSH server	<ul style="list-style-type: none"> • Support SSH server
TACACS	<ul style="list-style-type: none"> • Support TACACS(the terminal access controller accesses the control system)
sflow	<ul style="list-style-type: none"> • Support network traffic analysis
TFTP	<ul style="list-style-type: none"> • Support TFTP Client
Layer 3 functions	
ARP	<ul style="list-style-type: none"> • ARP table aging
DHCP server	<ul style="list-style-type: none"> • Support
IPv4 / IPv6	<ul style="list-style-type: none"> • static routing
Mechanical structure	
LED Indicators	<ul style="list-style-type: none"> • P (Power indicator) • S (System status indicator) • 1-8 (Copper ports indicators) Green / (PoE status indicators) Yellow • 9-10 (Fiber ports indicators) Green
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 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 4K/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-IPG62081-2F 8-P Gigabit PoE + 2-SFP(1G/2.5G) slot L2+ Managed Industrial PoE Switch (240W)