

RP-IPG6308IX-8F

8-P Gigabit PoE + 4-SFP(100/1G) slot + 4-SFP (1G/2.5G/10G) slot L2+ Managed Industrial PoE Switch

RP-IPG6308IX-8F is the highly reliable Layer 2+ managed industrial PoE switch with 8-port 10/100/1000-T RJ45, 4-port 100/1000Base-X SFP and 4-port 1G/2.5G/10GBase-X SFP+ slots.

It delivers 30watts power per PoE port and generates a total of 240Watts power to PD devices, With full gigabit downlink and 10G uplink capability, it delivers high-performance data transfer across industrial networks.

RP-IPG6308IX-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-IPG6308IX-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 ≤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

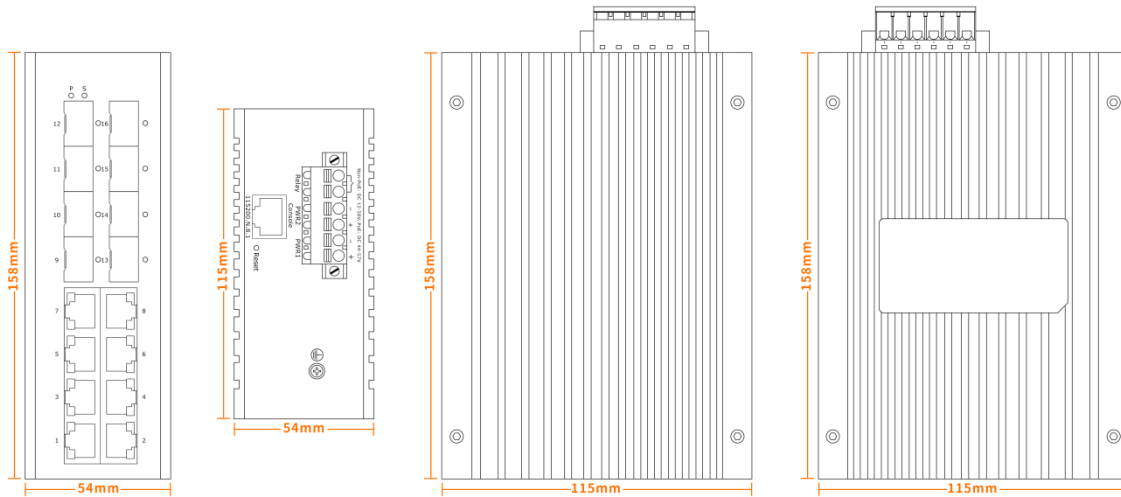
Specifications

| | |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 PoE • IEEE 802.3at PoE+ |
| Interface | <ul style="list-style-type: none"> • 8 x 10/100/1000Base-T RJ45 PoE • 4 x 100/1000Base-X SFP (13-16 ports) • 4 x 1G/2.5G/10GBase-X SFP (9-12 ports) |
| Management port | <ul style="list-style-type: none"> • 1 x RJ45 Console port |
| Alarm port | <ul style="list-style-type: none"> • One digital output for relay alarm, alarm relay current carry ability: 1A@24VDC |
| Switching capacity | <ul style="list-style-type: none"> • 104Gbps |
| Packet forwarding rate | <ul style="list-style-type: none"> • 154.7Mpps |
| 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"> • 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 10GE 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 |

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <ul style="list-style-type: none"> • IP Based VLAN • Protocol Based VLAN |
| QinQ | <ul style="list-style-type: none"> • Port-based QinQ • VLAN-based QinQ • 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 ≤20ms |
| 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 |
| Layer 3 function | |
| ARP | <ul style="list-style-type: none"> • ARP table aging |

| | |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IPv4 / IPv6 | <ul style="list-style-type: none"> • Static routing |
| Power parameter | |
| Input voltage | <ul style="list-style-type: none"> • 44-57VDC • redundant power input |
| Input current | <ul style="list-style-type: none"> • 5.9A Max |
| PoE power | <ul style="list-style-type: none"> • Full loading without PoE≤20W • PoE power budget ≤ 240W |
| Connector | <ul style="list-style-type: none"> • Removable 6-pin terminal block, Pin 5-6 for relay alarm |
| 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) • 1-8 (Copper ports indicators) Green / (PoE) Yellow • 9-16 (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 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-IPG6308IX-8F 8-P Gigabit PoE + 4-SFP(100/1G) slot + 4-SFP (1G/2.5G/10G) slot
L2+ Managed Industrial PoE Switch