RP-IPG6508IX-8F

8-P Gigabit PoE + 4-SFP(100/1G) slot + 4-SFP (1G/2.5G/10G) slot L3 Managed Industrial PoE Switch

RP-IPG6508IX-8F is the highly reliable 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-IPG6508IX-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. RP-IPG6508IX-8F also supports Layer 3 static routing & dynamic routing features, powerful Layer 2 management and secure function, which all making them 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-IPG6508IX-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 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 static routing and dynamic 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/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

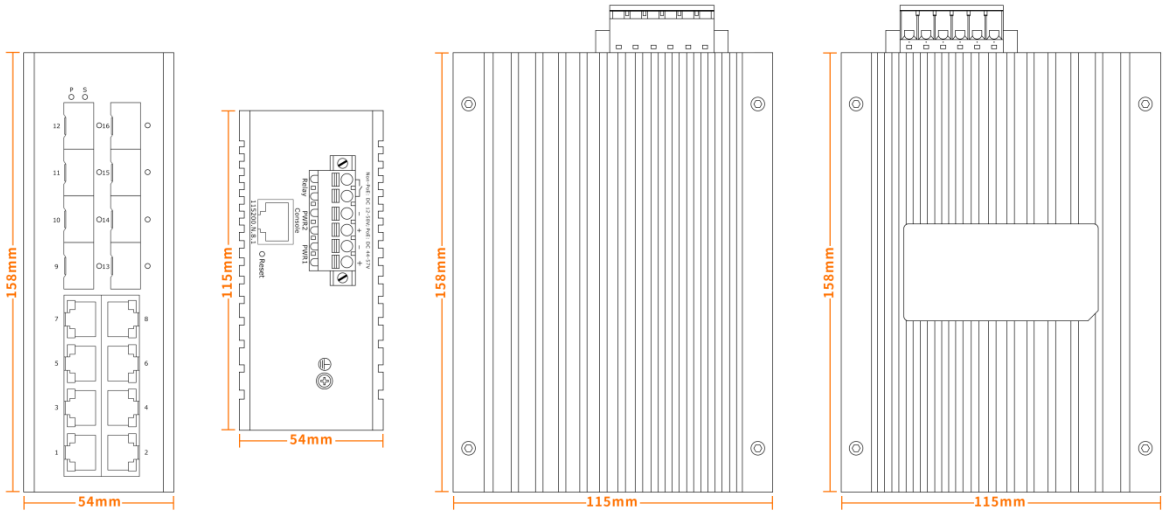
Specifications

Standards	• IEEE 802.3 10Base-T Ethernet • IEEE 802.3u 100Base-TX Ethernet • IEEE 802.3ab 1000Base-T Ethernet • IEEE 802.3z 1000Base-X Ethernet • IEEE 802.3ae 10Gb/s 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	• 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	• 1 x RJ45 Console port
Alarm port	• One digital output for relay alarm, alarm relay current carry ability: 1A@24VDC
Switching capacity	• 104Gbps
Packet forwarding rate	• 154.7Mpps
MAC address table	• 16K
VLAN	• 4K
Buffer	• 12M bit
Forwarding delay	• <5us
Jumbo Frame	• Support 10Kbytes
MDX/MIDX	• Support
Watchdog	• Support
Layer 2 function	
Port aggregation	• Support GE port aggregation • Support 2.5GE aggregation • Support 10GE aggregation • Support static aggregation • Support dynamic aggregation
Port features	• Support IEEE802.3x flow control, • Support port traffic statistics, • Support port isolation • Support network storm suppression based on port bandwidth percentage
VLAN	• Support access mode • Support trunk mode • Support hybrid mode
VLAN Classification	• Mac Based VLAN

	• IP Based VLAN • Protocol Based VLAN
QinQ	• Port-based QinQ • VLAN-based QinQ • Flow-based QinQ
Port mirroring	• Many to one port mirroring
Ring network protocol	• Support STP、RSTP、MSTP • Support G.8032 ERPS protocol，single ring, sub Ring and associated sub ring • Recovery time ≤20ms
DHCP	• Support DHCP Client • Support DHCP Snooping
Multicast	• IGMP snooping
ACL	• IP Standard ACL • MAC extend ACL • IP extend ACL
QoS	• Support QoS Class, Remarking • Support SP, WRR queue scheduling • Ingress Port-based Rate-limit • Egress Port-based Rate-limit • Support Policy-based QoS
Security	• 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	• 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	• ARP table aging

IPv4 / IPv6	• Static routing
ECMP	• ECMP • Support the configuration of ECMP Max next-hop • Support capacity balanced configuration
Route policy	• IPv4 prefix-list
VRRP	• virtual router redundancy protocol
Routing Entry	• 13K
IP routing protocol	• RIPv1/v2; • OSPFv2; • BGP4; • BGP supports Routing recursive ECMP; • Support to view the number of neighbors and up/down state
Power parameter	
Input voltage	• 44-57VDC, redundant power input
Input current	• 5.9A Max
PoE power	• Full loading without PoE≤20W • PoE power budget ≤ 240W
Connector	• Removable 6-pin terminal block, Pin 5-6 for relay alarm
Reverse polarity protection	• Support
Over-voltage protection	• Support
Over-current protection	• Support
Mechanical structure	
LED Indicators	• P (Power indicator) • S (System status indicator) • 1-8 (Copper ports indicators) Green / (PoE) Yellow • 9-16 (Fiber ports indicators) Green
Case protection	• IP40
Installation method	• Din-rail
Dimension	• 54x158x115mm (WxHxD)
Environment	• Operating temperature: -40°C~+75°C • Storage temperature -40°C~+85°C • Operating Humidity: 10 to 90% (Non-Condensing)
EMS	• 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	• FCC Part 15B Class A
Shock	• IEC 60068-2-27
Free fall	• IEC 60068-2-32
Vibration	• IEC 60068-2-6
Certification	• CCC/CE/FCC/RoHS

Dimension



Ordering information

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