

RP-IPG65240IX-4FR

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

RP-IPG65240IX-4FR is a dependable Layer 3 managed industrial PoE switch boasting 24 ports for 10/100/1000Base-T PoE and 4 ports for 1G/2.5G/10GBase-X SFP+. It adheres to IEEE802.3af/at PoE standards, delivers total PoE power budget up to 370 watts. With its full gigabit downlink and 10G uplink capabilities, it excels in high-performance data transfer, handling substantial volumes of video, voice, and data seamlessly. This switch supports DI/DO/RS485/Modbus data, G.8032 ERPS, MSTP/RSTP/STP redundancy technologies, Layer 3 static routing & dynamic routing features, and offers robust Layer 2 management and security functions, making it an excellent choice for large-scale industrial networks.

RP-IPG65240IX-4FR is a cost-effective, user-friendly device designed to meet essential industrial Ethernet networking needs. It boasts a wide voltage input range of 44-57VDC, a redundant power design with DC/DC support, and a rugged IP40 fan-less housing that's suitable for rack-mount installations. Its impressive operational temperature range from -40°C to 75°C and high-level EMI/EMC capabilities make it ideal for harsh and critical environments, such as heavy industrial factories, transportation, oil & gas, chemical facilities, IP surveillance setups, and processing automation areas.

RP-IPG65240IX-4FR stands out as a reliable, high-performance, and cost-effective solution for industrial networking requirements. Its robust features, wide operating parameters, and resistance to challenging environmental conditions make it the preferred choice for various industrial applications where durability and performance are paramount.



Features

- 24*10/100/1000Base-T PoE, 4*1G/2.5G/10GBase-X SFP
- DC/DC redundant power supply with polarity reverse/over-voltage/over-current protection
- Complies with IEEE802.3af / .3at PoE+ standard
- Support USB one key configuration and upgrading
- Support DI/DO/RS485/Modbus data
- Layer 3 feature: Support static routing and dynamic routing

- Layer 2 features: VLAN; ERPS, STP/RSTP/MSTP; Link aggregation, IGMP snooping, port mirroring, QinQ, 802.1X, port isolation, RMON, NTP client, DHCP snooping/client, Ping/Tracert test, ACL, QoS and SFP DDM function
- Management and maintenance: IPv4 and IPv6 management, PoE management; Support Web, SNMP, CLI, Telnet/SSH management method; Support user management, system log, configuration upload/download through web interface, firmware upgrade via HTTP/TFTP/USB
- Support G.8032 ERPS protocol, recovery time $\leq 20\text{ms}$
- Support 6KV surge protection and ESD: Air-15kV, Contact-8kV Protection

Specifications

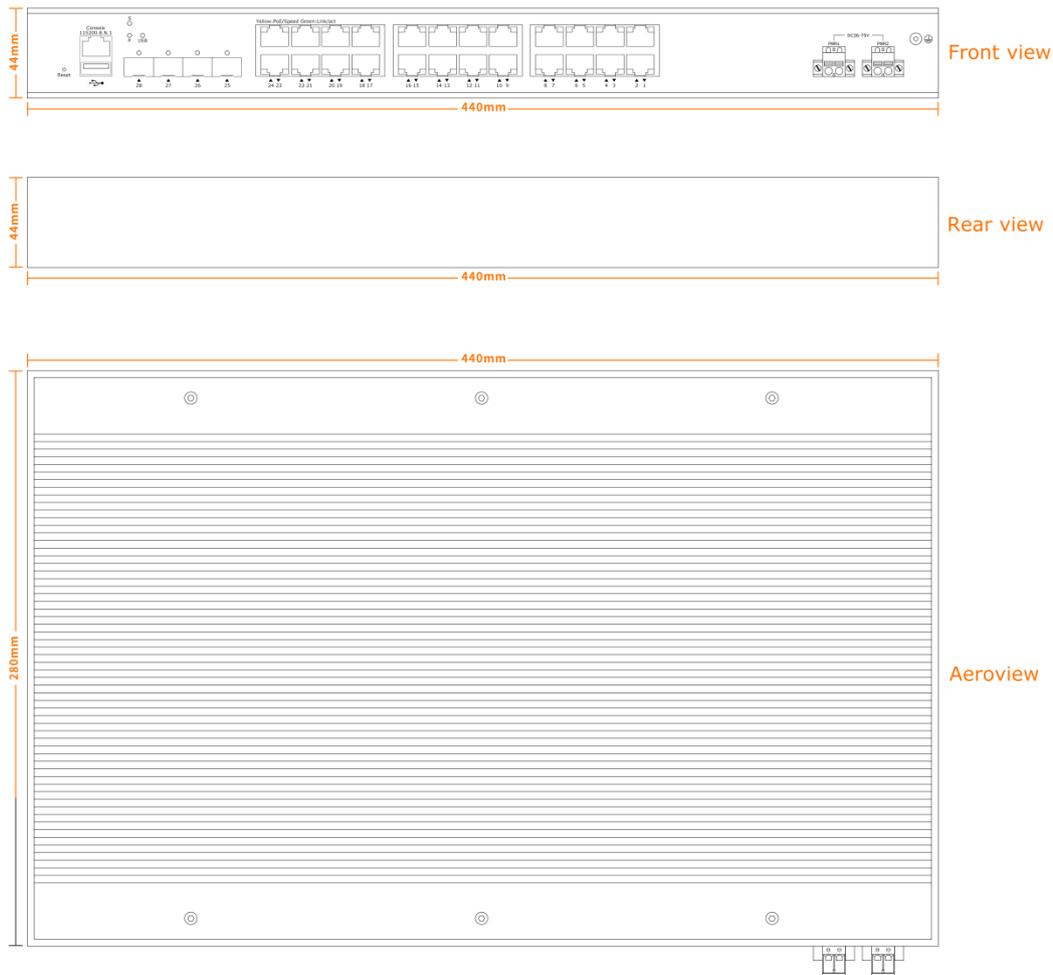
Standards	<ul style="list-style-type: none"> • IEEE 802.3 10Base-T Ethernet • IEEE 802.3u 100Base-TX Ethernet • IEEE 802.3ab 1000Base-T Ethernet • IEEE 802.3z 1000Base-X Ethernet • IEEE 802.3ae 10GBase-X Ethernet • IEEE802.3x Flow Control and Back Pressure • IEEE 802.1D Spanning Tree Protocol • IEEE 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"> • 24 x 10/100/1000Base-T RJ45 PoE • 4 x 1G/2.5G/10GBase-X SFP+
Management port	<ul style="list-style-type: none"> • 1 x RJ45 Console port • 1 x USB 2.0 for configuration and firmware update
Data channel	<ul style="list-style-type: none"> • 1 channel RS485 • 1 channel DI(digital input) • 1 channel DO(digital output)
Switching capacity	<ul style="list-style-type: none"> • 128Gbps
Packet forwarding rate	<ul style="list-style-type: none"> • 190.4Mpps
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 • 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 $\leq 20\text{ms}$
DHCP	<ul style="list-style-type: none"> • Support DHCP Client • Support DHCP Snooping
Multicast	<ul style="list-style-type: none"> • IGMP V1,V2,V3 • 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

	<ul style="list-style-type: none"> • 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 • Support USB upgrading • Support USB importing configuration
Layer 3 function	
ARP	<ul style="list-style-type: none"> • ARP table aging
IPv4 / IPv6	<ul style="list-style-type: none"> • Static routing
ECMP	<ul style="list-style-type: none"> • ECMP • Support the configuration of ECMP Max next-hop • Support capacity balanced configuration
Route policy	<ul style="list-style-type: none"> • IPv4 prefix-list
VRRP	<ul style="list-style-type: none"> • virtual router redundancy protocol
Routing Entry	<ul style="list-style-type: none"> • 13K
IP routing protocol	<ul style="list-style-type: none"> • RIPv1/v2; • OSPFv2; • BGP4; • BGP supports Routing recursive ECMP; • Support to view the number of neighbors and up/down state • IS-ISv4
Power parameter	
Input voltage	<ul style="list-style-type: none"> • 44-57VDC, redundant power input

Input current	<ul style="list-style-type: none"> ● 9A DC input Max
PoE power	<ul style="list-style-type: none"> ● Full loading without PoE≤32W ● PoE power budget ≤ 370W
Connector	<ul style="list-style-type: none"> ● Removable 2-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) ● USB (USB status indicator) Green ● ALM (Fault status indicator) Red ● 1-24 (Copper ports indicators) Green / (PoE) Yellow ● 25-28 (Fiber ports indicators) Green
Case protection	<ul style="list-style-type: none"> ● IP40
Installation method	<ul style="list-style-type: none"> ● Rack mountable
Dimension	<ul style="list-style-type: none"> ● 440x280x44mm (WxDxH)
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) ● Storage humidity: 5%-95%RH
EMS	<ul style="list-style-type: none"> ● Surge protection of power: IEC 61000-4-5 DC:6KV/6KV (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"> ● CE/FCC/RoHS

Dimension



Ordering information

RP-IPG65240IX-4FR 24-P Gigabit PoE + 4-SFP (1G/2.5G/10G) slot L3 Managed Industrial PoE Switch, Dual DC 44-57V input