

RP-IPG6324I-4F**24-P Gigabit + 4-SFP(1G/2.5G) slot****L2+ Managed Industrial Ethernet Switch**

The RP-IPG6324I-4F is a high-performance L2+ industrial PoE switch designed for mission-critical networks. Equipped with 24 Gigabit PoE ports and four 1G/2.5G SFP uplinks, it supports IEEE 802.3af/at up to 30W per port, delivering stable, high-bandwidth connectivity for video surveillance, voice, and data applications.

Engineered to enhance network reliability, it offers full Gigabit switching, G.8032 ERPS for fast ring recovery, and MSTP/RSTP/STP redundancy. With IPv4/IPv6 static routing and comprehensive Layer 2 management features, it provides advanced control, robust security, and scalable performance for large industrial deployments.

Built to withstand harsh conditions, it supports 44–57VDC input, redundant power design, and a rugged IP40 chassis. With wide -40°C to 70°C operation and strong EMI/EMC resistance, it is ideal for demanding environments such as factory automation, transportation systems, oil & gas, and surveillance.

**Features**

- 24*10/100/1000Base-T RJ45 PoE, 4*1G/2.5G Base-X SFP
- DC/DC redundant dual power 44-57V supply 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 USB one key configuration and upgrading
- 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 ≤20ms
- Support 6KV surge protection and ESD: Air-15kV, Contact-8kV Protection
- IP40 fan-less and rack-mount hardware design
- Operation temperature: -40 ~ +70°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• IEEE802.3af PoE• IEEE802.3at PoE+
Interface	<ul style="list-style-type: none">• 24 x 10/100/1000Base-T RJ45• 4 x 1G/2.5GBase-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
Switching capacity	<ul style="list-style-type: none">• 68Gbps
Packet forwarding rate	<ul style="list-style-type: none">• 101Mpps
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 LACP 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 interface counters• Support port isolation• Port mirroring (One-to-One, Many-to-One)• Support loop detection(Port-based; VLAN-based)• Support broadcast storm suppression (broadcast;

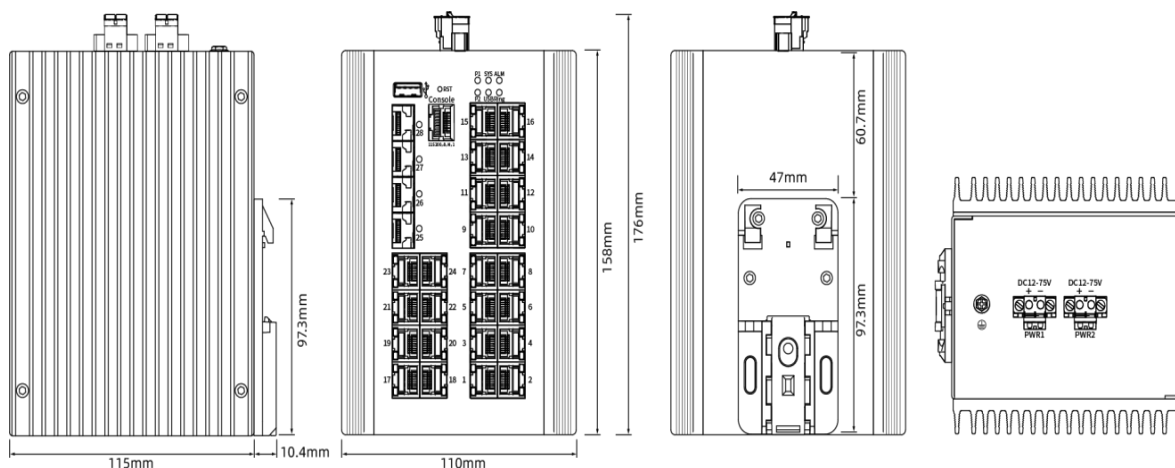
	unknown multicast; unknown unicast)
Mac-address table management	<ul style="list-style-type: none"> • Support static Mac-address management • Support dynamic Mac-address Management • Support filtering Mac-address • Support MAC limit based on port and VLAN • Support MAC flapping based on port and VLAN
VLAN	<ul style="list-style-type: none"> • Support access mode • Support trunk mode • 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(VLAN-stacking; VLAN-mapping) • 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 IEEE802.1D-STP, IEEE802.1W-RSTP, IEEE802.1S-MSTP • Support G.8032 ERPS protocol , single ring, sub Ring and associated sub ring • Recovery time ≤20ms
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/Tracer out • 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
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"> • DHCP server
IPv4 / IPv6	<ul style="list-style-type: none"> • static routing
Power parameter	
Input voltage	<ul style="list-style-type: none"> • 44-57VDC(802.3af) • 52-57VDC(802.3at) • redundant power input
Input current	<ul style="list-style-type: none"> • 6A DC/DC input Max
Total consumption	<ul style="list-style-type: none"> • Full loading ≤ 26W • Single power input: PoE power budget ≤240W (-40℃~+70℃) • Dual power input: PoE power budget ≤370W (-40℃~+60℃) • *Dual power input must be the same DC voltage
Connector	<ul style="list-style-type: none"> • Removable 2x2-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"> • P1/P2 (Power indicator) • SYS (System status indicator) • USB (USB status indicator) Green • ALM(Fault status indicator) Red • Ring(Ring network indicator) • 1-24 (Copper ports indicators) Green • 1-24 (PoE status indicators) Yellow • 25-28 (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"> • 110 x 115 x 158mm (WxDxH)
Environment	<ul style="list-style-type: none"> • Operating temperature: -40℃~+70℃ • Storage temperature -40℃~+85℃ • 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

	<ul style="list-style-type: none"> 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

Dimension



Ordering information

RP-IPG6324I-4F 24 x Gigabit + 4-SFP(1G/2.5G) L2+ Managed Industrial PoE Ethernet Switch (370W)

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Brief Features

PoE power 240W for Single power input

PoE power 370W for Dual power input

ERPS redundant network support

Self-recovery mechanism < 20ms

Layer 3 static routing support

Wide range voltage input, redundant power design

Digital output for relay alarm

Robust Layer 2 management functions

Surge and ESD protection