RP-ISG6324I-4F

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

The RP-ISG6324I-4F is a highly reliable Layer 2+ managed industrial Ethernet switch, equipped with 24×10/100/1000Base-T RJ45 ports and 4×1G/2.5GBase-X SFP slots. With full gigabit capability, it delivers high performance and rapid transmission of large volumes of video, voice, and data, making it well-suited for high-bandwidth industrial applications.

This model supports rich Layer 2 management features, including optional DI/DO/RS485 interfaces, G.8032 ERPS ring protection, MSTP/RSTP/STP redundancy, IPv4/IPv6 static routing, and a built-in DHCP server. With advanced network security and traffic control, it ensures stable and resilient connectivity for mission-critical networks.

Engineered for tough environments, it features a fan-less IP40-rated metal housing, DIN-rail installation, dual 12–75V DC power inputs, and a wide -40°C to 80°C operating range. With strong EMI/EMC resistance, it is ideal for deployment in industrial automation, transportation systems, energy sectors, and surveillance networks.

Features

- 12-75V redundant DC power supply with polarity reverse/over-voltage/over-current protection
- Support USB one key configuration & upgrading
- Layer 3 features: Support IPv4/IPv6 static routing, DHCP server
- 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; 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
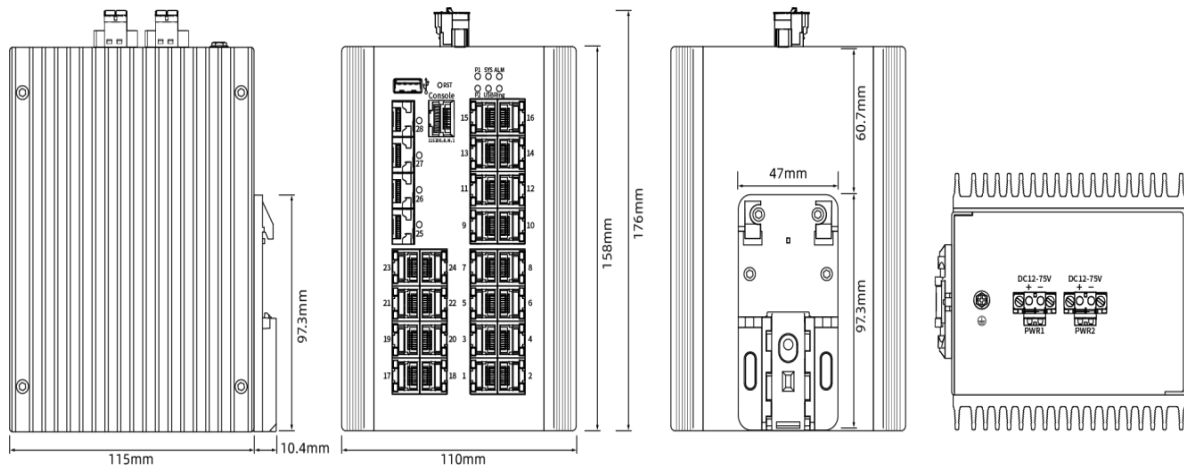
Specifications

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 - 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
Interface	24 x 10/100/1000Base-T RJ45 4 x 1G/2.5GBase-X SFP
Management port	1 x RJ45 Console port 1 x USB 2.0 for configuration and firmware update
Switching capacity	68Gbps
Packet forwarding rate	101Mpps
MAC address table	16K
VLAN	4K
Buffer	12Mbit
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 static aggregation - Support LACP dynamic aggregation - Up to 64 aggregation groups and up to 8 ports per group
Port features	- 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	Support static Mac-address management

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	• Support access mode • Support trunk mode • Support hybrid mode
VLAN classification	• Mac Based VLAN • IP Based VLAN • Protocol Based VLAN
GVRP	• Normal mode • Fixed mode • Forbidden mode
QinQ	• Port-based QinQ • VLAN-based QinQ(VLAN-stacking; VLAN-mapping) • Flow-based QinQ
LLDP	• LLDP (Link Layer Discovery Protocol)
Ring network protocol	• 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	• Support IGMP snooping
Group address	• Support group address
Security functions	
ACL	• IP Standard ACL • MAC extend ACL • IP extend ACL • IPv6 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
802.1x	• Port access control • Mac-address access control • RADIUS server
Port-security	• Port-security
IP source guard	• IP Port/MAC binding
ARP-check	• Support ARP-check and ARP packet filtering for illegal

	users
Access control	● Support Telnet/SSH/HTTP/HTTPS user access control
Management & Maintenance functions	
User Management	● Support password protection ● Support user authorization management
SNMP	● Supporting SNMP V1/V2C/V3 version
Web Management	● Web Management ● Support HTTP V1.1 ● Support HTTPS
CLI management	● Console/Telnet command line management
RMON	● Support RMON(Remote Monitoring) alarm
Firmware upgrade	● Firmware upgrade
Fault Detection	● Ping/Tracer out ● Dying gasp ● Support optical transceiver DDM function
Cable detection	● Support copper port cable detection
NTP	● Network Time Protocol
Syslog/Debug	● Syslog/Debug ● Syslog send to three servers
Configuration import/export	● Support FTP/TFTP remote import/export ● Support USB import/export
Dual partition management	● Support dual partition switching
Application Protocol Functions	
DHCP Snooping	● DHCP snooping trust port ● Support remote-id/circuit-id configuration ● DHCP option-82
DHCP client	● Support DHCP client
Telnet server	● Support telnet server
Telnet client	● Support telnet client
SSH server	● Support SSH server
TACACS	● Support TACACS(the terminal access controller accesses the control system)
sflow	● Support network traffic analysis
TFTP	● Support TFTP Client
Layer 3 functions	
ARP	● ARP table aging
DHCP server	● DHCP server
IPv4 / IPv6	● static routing
Power parameter	
Input voltage	● 12-75VDC, redundant power input
Input current	● 2.5A DC/DC input Max

Total consumption	• Full loading ≤ 26W
Connector	• Removable 2x2-pin terminal block
Reverse polarity protection	• Support
Over-voltage protection	• Support
Over-current protection	• Support
Mechanical structure	
LED Indicators	• 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: ports link / Yellow: Off: ports on 10/100M; On: ports on 1000M • 25-28 (Fiber ports indicators) Green
Case protection	• IP40
Installation method	• Din-rail
Dimension	• 110 x 115 x 158mm (WxDxH)
Environment	• Operating temperature: -40°C~+80°C • Storage temperature -40°C~+85°C • Operating Humidity: 10 to 90% (Non-Condensing)
EMS	• 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	• FCC Part 15B Class A
Shock	• IEC 60068-2-27
Free fall	• IEC 60068-2-32
Vibration	• IEC 60068-2-6
Certification	• CE/FCC

Dimension

Ordering information

RP-ISG6324I-4F   24 x Gigabit + 4-SFP(1G/2.5G) L2+ Managed Industrial Ethernet Switch