RP-IPG63168I-4FR

16-P Gigabit + 8-TP/SFP(1G) Combo + 4-SFP (1G/2.5G) slot L2+ Managed Industrial PoE Switch



RP-IPG63168I-4FR is the highly reliable Layer

2+ managed industrial PoE switch with 16-port

10/100/1000Base-T PoE ,8-port 1000Base Combo and 4-port 1G/2.5GBase-X SFP. It delivers 30watts power per PoE port and generates a total of 370Watts power to PD devices, With full gigabit capability, it delivers high-performance data transfer across industrial networks.

RP-IPG63168I-4FR supports G.8032 ERPS, MSTP/RSTP/STP redundancy technologies, 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.

Robust IP40-rated rugged case protection with rack-mount installation, Its wide operating temperature ranges from -40°C to 75°C, RP-IPG63168I-4FR 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

- DC/DC redundant power supply with polarity reverse/over-voltage/over-current protection
- Complies with IEEE802.3af PoE and IEEE802.3at PoE+ standard
- Support USB one key configuration and upgrading
- Layer 3 feature: Support IPv4/IPv6 static 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 ≤20ms
- Support 6KV surge protection and ESD: Air-15kV, Contact-8kV Protection
- IP40 fan-less and rack-mount hardware design
- Operation temperature: -40°C ~+ 75°C

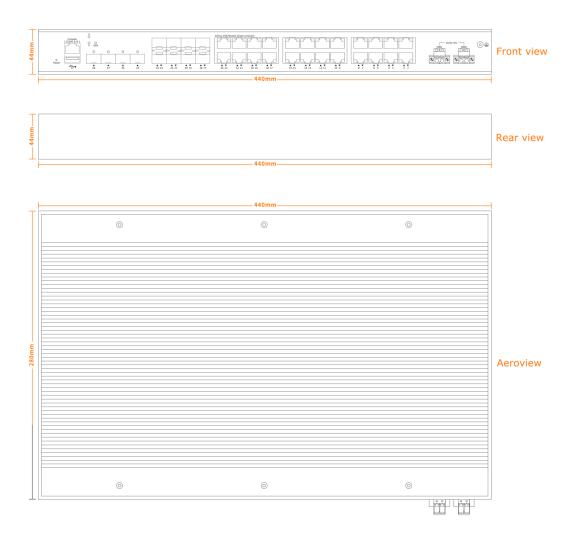
Specifications

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
	 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	• 16 x 10/100/1000Base-T RJ45
	8 x 1G COMBO SFP/RJ45
	• 4 x 1000/2500Base-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	• 12M bit
Forwarding delay	• <5us
Jumbo Frame	Support 10Kbytes
MDX/MIDX	Support
Watchdog	Support
Layer 2 function	
	 Support GE port aggregation
Port aggregation	 Support 2.5GE aggregation
Fort aggregation	Support static aggregation
	Support dynamic aggregation
	 Support IEEE802.3x flow control,
	 Support port traffic statistics,
Port features	Support port isolation
	 Support network storm suppression based on port
	bandwidth percentage
	Support access mode
VLAN	Support trunk mode
	Support hybrid mode
	Mac Based VLAN
VLAN Classification	IP Based VLAN
	Protocol Based VLAN

	Port-based QinQ
QinQ	 VLAN-based QinQ
	Flow-based QinQ
Port mirroring	Many to one port mirroring
	 Support STP \ RSTP \ MSTP
Ring network protocol DHCP	• Support G.8032 ERPS protocol , single ring, sub Ring and
	associated sub ring
	 Recovery time ≤20ms
	Support DHCP Client
	Support DHCP Snooping
Multicast	IGMP snooping
	IP Standard ACL
ACL	MAC extend ACL
	IP extend ACL
	 Support QoS Class, Remarking
	Support SP, WRR queue scheduling
QoS	Ingress Port-based Rate-limit
	Egress Port-based Rate-limit
	Support Policy-based QoS
	• Support Dot1x , port authentication , MAC authentication ,
	RADIUS service
	Support port-security
Security	Support IP Source Guard , IP/Port/MAC binding
	Support ARP-check and ARP packet filtering for illegal
	users
	Support port isolation
	Support LLDP
	Support user management and login authentication Support SNIMD (4.0 (0.0) (2.0)
	Support SNMPV1/V2C/V3 Support SNMPV1/V2C/V3
	Support web management, HTTP1.1, HTTPS Support System and clares grading.
	Support Syslog and alarm grading Support BMON/Demote Manifering) clarm
	Support RMON(Remote Monitoring) alarmSupport NTP
	Support NTP Support temperature monitoring
	Support temperature monitoring Support Ping , TRACERT
Management & maintenance	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	ARP table aging
ARP	ARP table aging

IPv4 / IPv6	Static routing	
Power parameter		
Input voltage	• 44-57VDC	
	redundant power input	
Input current	9A DC input Max	
PoE power	Full loading without PoE≤32W	
	 PoE power budget ≤ 370W 	
Connector	Removable 2-pin terminal block	
Reverse polarity protection	Support	
Over-voltage protection	Support	
Over-current protection	Support	
Mechanical structure		
LED Indicators	P (Power indicator)	
	S (System status indicator)	
	USB (USB status indicator)	
	 1-16 (Copper ports indicators) Green / PoE Yellow 	
	17-28 (Fiber ports indicators) Green	
Case protection	• IP40	
Installation method	Rack mountable	
Dimension	• 440 x 280 x 44mm (W*D*H)	
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/6KV 	
	(8/20us)	
	Surge protection of Ethernet ports: IEC 61000-4-5	
	6KV/2KV (10/700us)	
	• RS: IEC 61000-4-3 80MHz-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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