RP-IPG63168IX-4FR

16-P Gigabit + 8-TP/SFP(1G) Combo + 4-SFP(1G/2.5G/10G) slot L2+ Managed Industrial PoE Switch



RP-IPG63168IX-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/2.5G/10GBase-X SFP+. It delivers 30watts power per PoE port and generates a total of 370Watts power to PD devices, With full gigabit downlink and 10G uplink capability, it delivers high-performance data transfer across industrial networks.

RP-IPG63168IX-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-IPG63168IX-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

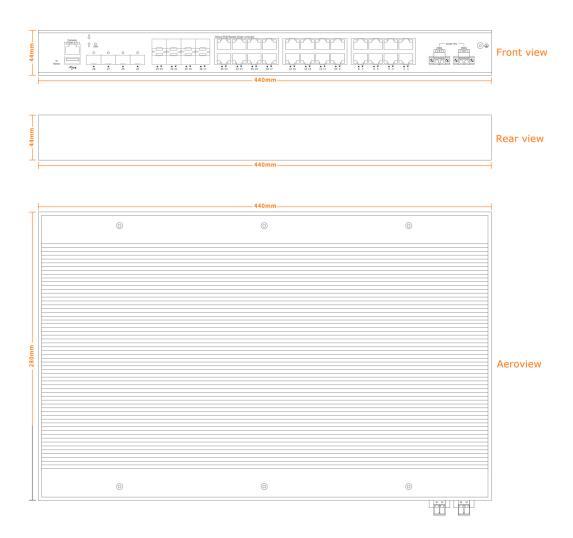
Specifications

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
	● 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 PoE
	● IEEE 802.3at PoE+
Interface	• 16 x 10/100/1000Base-T RJ45
	8 x 1G COMBO SFP/RJ45
	 4 x 1G/2.5G/10GBase-X SFP+
Management port	1 x RJ45 Console port
	1 x USB 2.0 for configuration and firmware update
Switching capacity	• 128Gbps
Packet forwarding rate	• 190.4Mpps
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
	Support 2.5GE aggregation
Port aggregation	Support 10GE 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
VLAN Classification	Mac Based VLAN

	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	Support G.8032 ERPS protocol,single ring, sub Ring and
King hetwork protocor	associated sub ring
	Recovery time ≤20ms
DHCP	Support DHCP Client
51101	Support DHCP Snooping
Multicast	IGMP snooping
	IP Standard ACL
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
	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 LDD
	Support LLDP Support user management and legin authorization
	Support user management and login authenticationSupport SNMPV1/V2C/V3
	 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
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
IPv4 / IPv6	Static routing
Power parameter	
Input voltage	44-57VDCredundant power input
Input current	9A DC input Max
PoE power	 Full loading without PoE≤36W 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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