RP-IPG6316IX-2F

16-P Gigabit PoE + 2-SFP (1G/2.5G/10G) slot L2+ Managed Industrial PoE Switch

RP-IPG6316IX-2F is the highly reliable Layer 2+ managed industrial PoE switch with 16-port 10/100/1000-T RJ45 and 2-port 10GBase-X SFP+ slots. It delivers 30watts power per PoE port and generates a total of 240Watts power to PD devices, With full gigabit downlink and 10G



uplink capability, it delivers high-performance data transfer across industrial networks.

RP-IPG6316IX-2F supports ERPS redundant network and the self-recovery mechanism is less than 20ms on full load which allows you to scheme a reliable Ethernet network by building a redundant ring topology as your back-up solution., The switch also support 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.

With IP40-rated rugged case protection allows for either DIN rail or wall mounting for efficient use of cabinet space. Its wide operating temperature ranges from -40°C to 75°C, RP-IPG6316IX-2F 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

- Redundant power 44-57V input with polarity reverse/over-voltage/over-current protection
- Support one digital output for relay alarm (terminal block Pin 5/6)
- Complies with IEEE802.3af PoE and IEEE802.3at PoE+ standard
- Layer 3 feature: Support IPv4/IPv6 static routing
- Support Layer 2 management function: VLAN/VLAN Classification/QinQ/STP, RSTP, MSTP/Port Mirroring/DHCP/Multicast/ACL/IGMP/QoS/LLDP/802.1X/Dying Gasp/SFP DDM/IPV6 management/Web/SNMP/Telnet/TFTP/Web upgrading
- Support G.8032 ERPS protocol, recovery time ≤20ms
- Support 6KV surge protection and ESD: Air-15kV, Contact-8kV Protection
- IP40 fan-less and Din-rail hardware design
- Operation temperature: -40°C ~+75°C

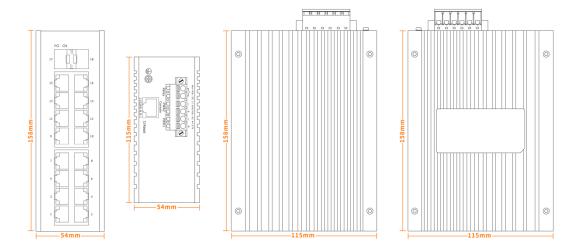
Specifications

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 802.3ae 10Gb/s 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 PoE
	• 2 x 1G/2.5G/10GBase-X SFP
Management port	• 1 x RJ45 Console port
Aloum nout	One digital output for relay alarm, alarm relay current carry
Alarm port	ability: 1A@24VDC
Switching capacity	• 72Gbps
Packet forwarding rate	• 107.13Mpps
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
ixing 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
	 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 SNMPV1/V2C/V3
	Support web management, HTTP1.1, HTTPS
	Support Syslog and alarm grading
	Support RMON(Remote Monitoring) alarm
	Support NTP
Management & maintenance	Support temperature monitoring
	Support Ping , TRACERT
	Support optical transceiver DDM function
	Support TFTP Client
	Support Telnet Server Support SSU Server
	Support SSH Server Support IDv6 Management
	Support IPv6 Management Support IPv6 Management
	Support PoE management Support TETP was a seed in a
Lovov 2 function	Support TFTP, web upgrading
Layer 3 function	ADD table anima
ARP	ARP table aging

IPv4 / IPv6	Static routing	
Power parameter		
Input voltage	 44-57VDC, redundant power input 	
Input current	• 5.8A Max	
PoE power	 Full loading without PoE≤18W 	
	 PoE power budget ≤ 240W 	
Connector	Removable 6-pin terminal block, Pin 5-6 for relay alarm	
Reverse polarity protection	Support	
Over-voltage protection	Support	
Over-current protection	Support	
Mechanical structure		
	P (Power indicator)	
LED Indicators	S (System status indicator)	
LLD illuicators	 1-16 (Copper ports indicators) Green / (PoE) Yellow 	
	17-18 (Fiber ports indicators) Green	
Case protection	• IP40	
Installation method	Din-rail	
Dimension	• 54x158x115mm (WxHxD)	
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/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 power 4K, signal 2K	
	• CS: IEC 61000-4-6 10V	
EM	• ESD: IEC 61000-4-2 Contact: 8K; Air: 15K	
EMI	FCC Part 15B Class A IEC COSCS 2.27	
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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