

BI912PGM4F

16 ports Industrial Full Gigabit Layer-3 Managed Switch

Datasheet



Ideal for:



Telecom



Hotels & Resorts



Universities



Healthcare



Public Places



Airport



Transport



Industries

Overview

BI912PGM4F is a 16-port full gigabit industrial managed PoE switch that supports up to 12*10/100/1000M PoE downlink ports, 4* 1000M SFP ports. 12*10/100/1000M ports support PoE+, conforming to IEEE 802.3af/at standard, PoE power each port up to 30W.

It supports L3 management, such as OSPF, RIP, QoS, VLAN, MSTP, Multi-broadcast, ports management and PoE management.

It supports 6KV surge protection, 8KV contact/15KV air ESD protection.

It supports wall hanging, desktop and Din-rail installation, reliable and durable, and can be used in security network video monitoring, network engineering and other occasions.

FEATURES

- With 12*10/100/1000M PoE downlink ports
- With 4*1000M SFP ports
- Supports PoE power each up to 30W;
- Supports L3 management, such as OSPF, RIP
- Supports QoS, VLAN, MSTP, Multi-broadcast
- Supports ports management & PoE management
- With 6KV surge protection
- 8KV contact /15KV air ESD protection
- Support working temperature -40°C~75°C

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TECHNICAL SPECIFICATION

Parameter	Specifications
Power supply	Powered by power adaptor
Range of voltage	2*DC 48~57V, redundancy power supply
Consumption	Self consumption<20W
Downlink ports	10/100/1000Base-T 30W PoE RJ45(IEEE 802.3af/at)
Uplink ports	Ports 13~16 1000M SFP slots
Cable and distance	Use cat5e/6, 100m max
Standard	IEEE802.3, IEEE802.3u, IEEE802.3z
Switch fabric	32Gbps
Though put	23.8Mpps
Buffer	4M
MAC address table	16K
Indicator	Power: 2 *red ;
Protection	Surge: 6KV, standard: IEC61000-4-5
Working temperature	-40°C~75°C
Storage temperature	-40°C~85°C
Humidity	0~95%(No condensation)
Dimension(L×W×H)	165 mm×114 mm×46mm
Material	Metal
Colour	Black
Net-weight	530g

Software:

L2 Features	Port configuration	Auto-negotiation
		Flow Control
		Port Mirror
		Traffic statistics
	Link Aggregation	Static link aggregation
		LACP
		Algorithm based on Source/Destination MAC
		Algorithm based on Source/Destination IP
		8 groups
		8 ports per group

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L2 Features	MAC Table	Aging Time
		Static MAC address
		Dynamic MAC address management
	VLAN	4K Active VLANs
		4K VID
		802.1Q Tag VLAN
		Port VLAN
		Protocol VLAN
		MAC VLAN
		Management VLAN
		Voice VLAN
		Q-in-Q
		Private VLAN
		GARP/GVRP
	ACL	64 ACLs
		L2, L3 e L4
		Time-based ACL
	Spanning tree	802.1D Spanning Tree Protocol (STP)
		802.1w Rapid Spanning Tree Protocol (RSTP)
		802.1s Multiple Spanning Tree Protocol (MSTP)
		Loop Guard
		Root Guard
		TC-BPDU Guard
		BPDU Guard
		BPDU Filter
	Multicast	256 groups
		IGMP v1/v2/v3
		Fast Leave
		Multicast VLAN
		Static Multicast
		Multicast Filter
		IGMP Statistics
		MLD Snooping

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L2 Features	PoE management	Support total power consumption control
		Support single port PoE ON/OFF
		Support port output priority
	QOS	4 priority queues
		CoS port-based
		CoS 802.1p-based
		CoS DSCP-based
		Scheduling algorithms SP, WRR, SP+WRR
		Storm Control (Broadcast, Multicast, Unknown Unicast)
		Bandwidth control per port
Security Features	Port Security	
	MAC address filter	
	ARP Association (Manual, ARP scanning, DHCP snooping) up to 200 entries	
	ARP Protection	
	DoS (Denial of Service)	
	Classification of packages based on: End.MAC, IP End, TCP / UDP Ports, Protocol	
	802.1x Authentication (port-based e MAC-based)	
	TACACS/TACACS+ Authentication	
	RADIUS Authentication	
	DHCP Filter	
	Guest VLAN	
	SSLv2/SSLv3/TLSv1	
	SSHv1/SSHv2	
	Restriction of WEB access based on: IP Address, And. MAC and Port	
	Port Isolation	
Management	Local User Name Password Authentication (2 levels)	
	Loopback detection	
	SNMP v1/v2c/v3	
	RMON 4 grupos	
	WEB (HTTP/HTTPS)	
	CLI (Telnet, Console, SSHv1/v2)	
	Firmware upgrade via console/web/TFTP	
	Configuration Backup/Reload	
	All possible configurations in the CLI must exist in the WEB interface	
	LLDP	

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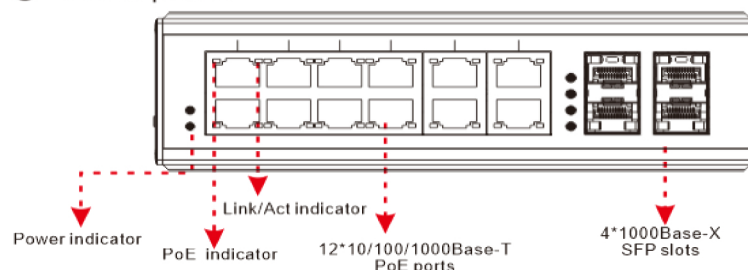
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Other Features	DHCP Relay
	DHCP Client
	DHCP Snooping
	DHCP Option 82
	SNTP Client
	BOOTP Client
Maintenance	Ping and Tracert
	System log (Local and Remote)
	Memory and CPU Monitoring
L3 Features	Static Routing
	OSPFv2
	RIPv1/v2
	DHCP Server
IPv6	IPv6 neighbor discovery (ND)
	Path maximum transmission unit (MTU) discovery
	Internet Control Message Protocol (ICMP) version 6
	TCPv6/UDPv6
	Ping6
	Tracert6
	Telnet(v6)
	Http/Https
	IPv6 TFTP
	Static Routing
	Interface IPV6

PANEL DIAGRAM

● Front panel



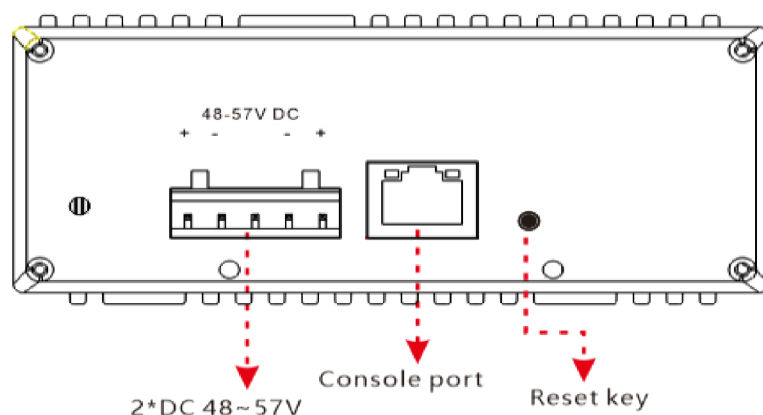
Attention 1: This product must be well grounded against lightning, please use better than 20# cable to connect the grounding terminal and ground.

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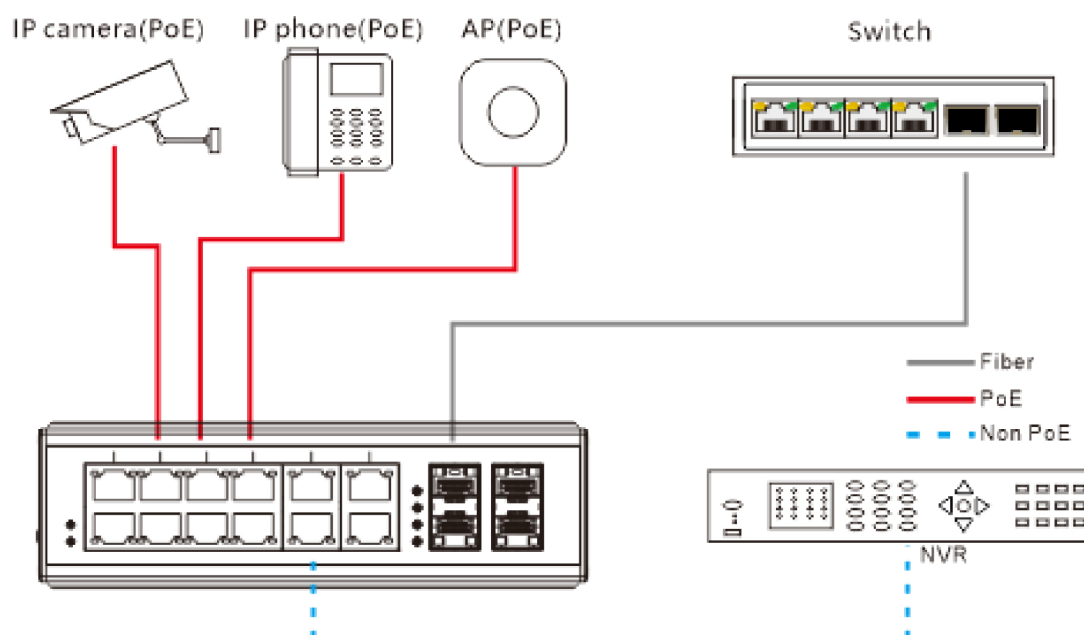
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● Left panel



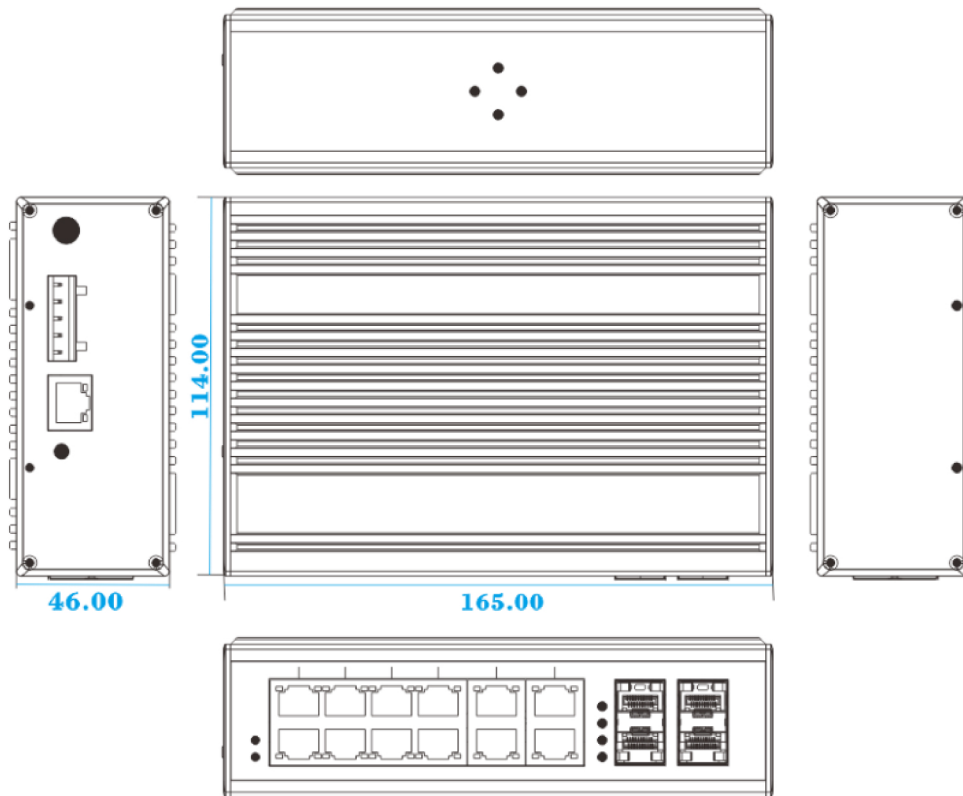
APPLICATION



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