

BI9216PGM4T-500W

16-Ports Gigabit Industrial L3 Managed PoE Switch with 4-Ports 10G SFP+ Uplink

Datasheet



Key Features:

Ports: Provide 16*10/100/1000Mbps PoE ports with 4*1G/10Gbps SFP+

PoE Standard: IEEE802.3af/at Power over Ethernet (PoE) Compliant

Self-adaption: RJ45 port supports 10/100/1000Mbps Auto MDI/MDIX

Wide Application: Designed for Railway, traffic etc some Industrial environment

Surge protection: Protect the device from lighting surges and others electrical hazards

Managed: Support remote web managed,VLAN and storm control and IPV6 management etc.

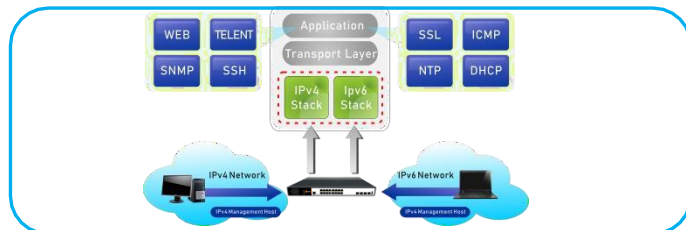
Layer3 Features, Static route , RIP , OSPF etc.

Working Temperature: -40 to 80 degrees operating temperature

Considerate Design: IP40 Industrial design

Environmentally Hardened Design

With the **IP40** metal industrial case which provides a high level of immunity against electromagnetic interference and heavy electrical surges,Being able to operate under the temperature range from **-40 to 85 degrees C**, the BI9216PGM4T-500W can be placed in almost any difficult environment.

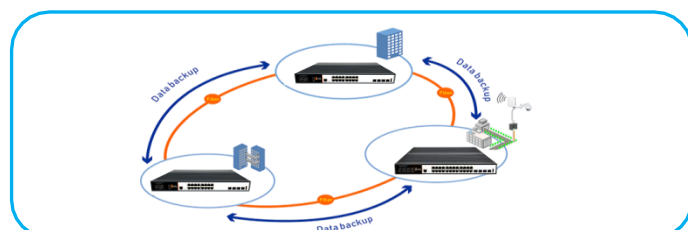


Cost-effective IPv6 Managed Gigabit PoE Switch Solution

With layer 3 managed Gigabit PoE Switch, It provides IPv6/IPv4 management and built-in L2/L4 Gigabit Switching engine, and supports high-speed transmission of surveillance images and videos.

Surge Protection Design

provides contact discharge of $\pm 8KV$ DC and air discharge of $\pm 15KV$ DC for Ethernet ESD protection. It also supports $\pm 6KV$ surge immunity to improve product stability and protects users' networks from devastating ESD attacks, making sure the flow of operation does not fluctuate.



Comprehensive reliability mechanisms(ERPS)

Besides STP,RSTP, and MSTP, the BI9216PGM4T-400WS Managed PoE Switch supports enhanced Ethernet reliability technologies such as Ethernet Ring Protection Switching (ERPS), also referred to as G.8032. ERPS supports various services and allows flexible networking, helping customers build a network with lower OPEX and CAPEX.

BI9216PGM4T-500W

16-Port 10/100/1000Mbps Industrial Managed PoE Switch with 4-1G/10G SFP+

Technical Datasheet

Model	BI9216PGM4T-500W	
Hardware Specifications		
Connector	16*10/100/1000BASE-T RJ45 auto MDI/MDIX ports	
	4*1/10G Base-X SFP+ Slots Uplink	
	1 Console port , 1 USB Port	
Uplink port	4*1G/10G Base-X SFP+ Slots	
LED Display	Power Indicator: PWR(green).	
	Network Indicator: Link(yellow)	
	POE: Orange	
	SFP: Green	
Thermal Fan	Fanless Design	
Network Standard	IIEEE 802.3u 100BASE-TX/100BASE-FX	
	IEEE 802.3z 1000BASE-SX/LX	
	IEEE 802.3ab 1000BASE-T	
	IEEE 802.3ae 10Gb/s Ethernet	
	IEEE 802.3x flow control and back pressure	
	IEEE802.3az EEE	
Switch Architecture	Store and Forward	
Transmission model	IEEE802.3X full-duplex and Backpressure half-duplex	
Switch Performance	Backplane bandwidth	256Gbps
	Packet forwarding rate	112.32Mpps
	MAC address	16k
Power requirement	AC100-240V 50/60Hz	
ESD Protection	6KV ESD	
Dimension	440mm x 290mm x 44.5mm(17.32in x 11.42in x 1.75in)	
Weight	5kg	
Environment	Operating temperature: -20℃~55℃ , operating humidity: 5%~95%	
	Storage temperature: -40℃~75℃ , storage humidity: 5%~95%	
Safety	FCC Part15 Class A,CE,RoHs	
Power over Ethernet (PoE) Specifications		
PoE Standard	IEEE 802.3af Power over Ethernet/PSE	
	IEEE 802.3at Power over Ethernet Plus/PSE	
PoE Supply Type	1/2(+), 3/6(-) End-span	
PoE Power Output	Per Port 52V DC, 300mA. max. 15.4 watts (IEEE 802.3af)	
	Per Port 52V DC, 600mA. max. 30 watts (IEEE 802.3at)	
PoE Power budget	500W	

Layer 3 Functions

Port Mirroring	TX / RX / both Many-to-1 monitor
Vlan	802.1Q tagged-based VLAN Up to 256 VLAN groups, out of 4094 VLAN IDs 802.1ad Q-in-Q tunneling Voice VLAN;Protocol VLAN;Private VLAN (Protected port),GVRP
Link Aggregation	IEEE 802.3ad LACP and static trunk Supports 8 groups of 8-port trunk
Spanning Tree Protocol	STP, IEEE 802.1D Spanning Tree Protocol RSTP, IEEE 802.1w Rapid Spanning Tree Protocol MSTP, IEEE 802.1s Multiple Spanning Tree Protocol
IGMP Snooping	IGMP (v2/v3) snooping ; IGMP querier ; Up to 256 multicast groups
MLD Snooping	MLD (v1/v2) snooping, up to 256 multicast groups
Access Control List	IPv4/IPv6 IP-based ACL / MAC-based ACL
PoE Management	Open or close port Standard POE scheduling management Power and current display Automatic restarting function of equipment dead machine Timing Support IP bindings restarting
Layer 3 Features	IPv4/IPv6 VRRP, the maximum group is 255 IPv4/IPv6 static route/default route supports up to 128 entries IPv4 dynamic routing, RIPv1/v2, OSPFv2, 4000 routing entries IPv6 dynamic routing OSPFv3, RIPv6, IPv6 management, 1000 routing entries L3 network management function, IPv4/IPv6 dual-stack management Layer 3 routing and forwarding, support communication between different network segments and different VLANs
QoS	8 mapping ID to 8 level priority queues --- Port number --- 802.1p priority --- 802.1Q VLAN tag --- DSCP field in IP packet Traffic classification based, strict priority and WRR
Security	IEEE 802.1X port-based authentication Built-in RADIUS client to co-operate with RADIUS server RADIUS / TACACS+ user access authentication ; IP-MAC port binding ; MAC filtering ; Static MAC address ; DHCP Snooping and DHCP Option82 ; STP BPDU guard, BPDU filtering and BPDU forwarding ; DoS attack prevention ; ARP inspection

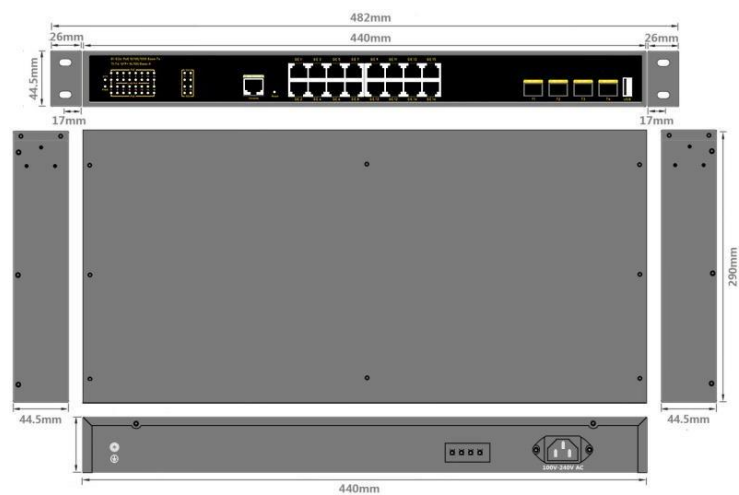
Management Function

Basic Management Interfaces	Web browser / Telnet / SNMP v1, v2c, V3 Firmware upgrade by HTTP / TFTP protocol through Ethernet network Remote / Local Syslog, System log, LLDP protocol, SNMP
Secure Management Interfaces	SSH, SSL, SNMP
SNMP MIBs	RFC 1213 MIB-II RFC 1215 Generic Traps RFC 1493 Bridge MIB RFC 2674 Bridge MIB Extensions RFC 2819 RMON (1, 2, 3, 9) RFC 2863 Interface Group MIB RFC 3635 Ethernet-like MIB

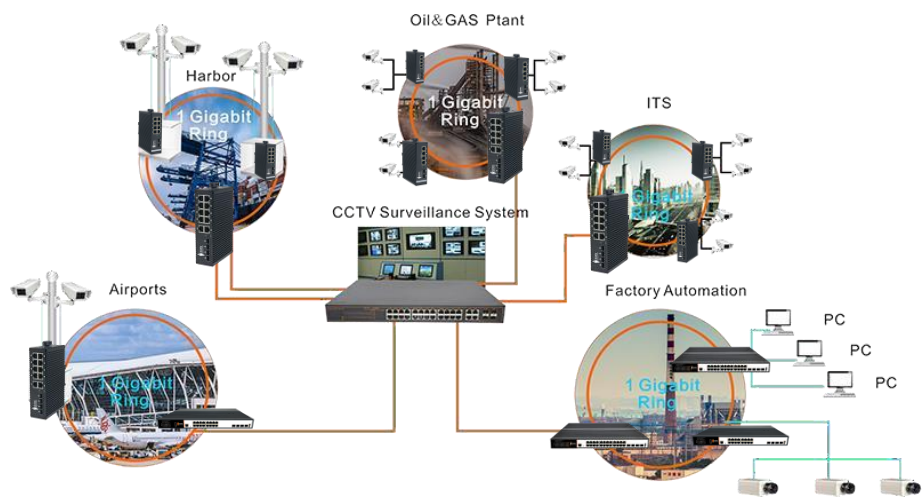
BI9216PGM4T-500W

16-Port 10/100/1000Mbps Industrial Managed PoE Switch with 4-10G SFP+

Structure Diagrams



Applications



Ordering Information

BI9216PGM4T-500W

16 Ports 10/100/1000Mbps Industrial Managed PoE switch With 4 Ports 1G/10G SFP+, Rack mount Installation, IEEE802.3af/at



337 Forest Road
London, United Kingdom



+44 7859 571344



Info@bornelectronics.com



https://bornelectronics.com