

BI8224PGM4GCF-500WS

24Port PoE Gigabit Managed Industrial Switch

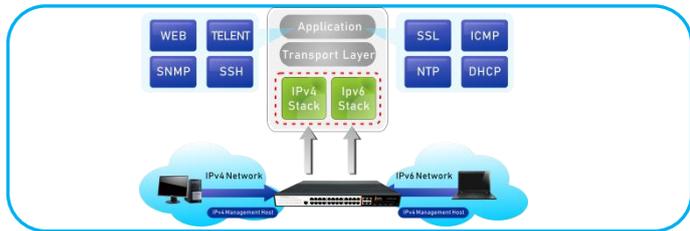


SW Features

- Ports:** 24 ports (24 RJ45 ports)
- PoE Standard:** IEEE 802.3af, IEEE 802.3at
- Self-adaption:** Auto MDI/MDI-X
- Industrial Installation:** DIN rail, rack mountable
- Wide Application:** Factory, warehouse, outdoor
- Surge protection:** Surge protection on all ports
- Managed:** SNMP, Telnet, SSH, Web
- Working Temperature:** -40 to 85 degrees Celsius
- Considerate Design:** Compact, rugged, industrial grade

Wide Temperature Design

The switch is designed to operate in a wide range of temperatures, from -40 to 85 degrees Celsius. This makes it suitable for use in harsh environments such as factories, warehouses, and outdoor settings. The switch is built with high-quality components and has a robust design that can withstand extreme temperatures and other environmental challenges.



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Technical Datasheet

Model	BI8224PGM4GCF-500WS	
Hardware Specifications		
Connector	24* 10/100/1000BASE-T RJ45 auto MDI/MDIX ports 4* 10/100/1000BASE-T RJ45 auto MDI/MDIX ports 4* 1000 Base-X SFP Slots Combo	
Console	1 Console port	
LED Display	Power Indicator: PWR(green).Network Indicator: Link(yellow)	
Thermal Fan	Fanless Design	
Installation	Rack Mounting	
Switch Architecture	Store and Forward	
Transmission model	IEEE802.3X full-duplex and Backpressure half-duplex	
Switch Performance	Backplane bandwidth	128Gbps
	Packet forwarding rate	47.62Mpps
	MAC address	16k
Power requirement	AC100-260V	
Dimension(WxDxH)	440mm x 290mm x 44.5mm(17.32in x 11.42in x1.75in)	
Weight	<5kg	
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 optional	
Standards Conformance		
Network standard	IEEE802.3i 10 BASE-T	
	IEEE802.3u 100 BASE-TX	
	IEEE802.3ab 1000BASE-T	
	IEEE802.3x Flow Control	
	IEEE802.3az EEE	

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Stability Testing	<p>FCC CFR47 Part 15, EN55022/CISPR22, Class A</p> <p>EMS:</p> <p>IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air)</p> <p>IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)</p> <p>IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV</p> <p>IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV</p> <p>IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)</p> <p>IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)</p> <p>IEC 60068-2-32 (free fall)</p> <p>IEC 60068-2-27 (shock)</p> <p>IEC 60068-2-6 (vibration)</p>
Layer 2 Functions	
Port Mirroring	TX / RX / both Many-to-1 monitor
Vlan	<p>802.1Q tagged-based VLAN</p> <p>Up to 256 VLAN groups, out of 4094 VLAN IDs</p> <p>802.1ad Q-in-Q tunneling</p> <p>Voice VLAN;Protocol VLAN;Private VLAN (Protected port),GVRP</p>
Link Aggregation	<p>IEEE 802.3ad LACP and static trunk</p> <p>Supports 8 groups of 8-port trunk</p>
Spanning Tree Protocol	<p>STP, IEEE 802.1D Spanning Tree Protocol</p> <p>RSTP, IEEE 802.1w Rapid Spanning Tree Protocol</p> <p>MSTP, IEEE 802.1s Multiple Spanning Tree Protocol</p>
IGMP Snooping	<p>IGMP (v2/v3) snooping</p> <p>IGMP querier</p> <p>Up to 256 multicast groups</p>
MLD Snooping	MLD (v1/v2) snooping, up to 256 multicast groups
Access Control List	<p>IPv4/IPv6 IP-based ACL / MAC-based ACL</p> <p>8 mapping ID to 8 level priority queues</p> <p>--- Port number</p>
QoS	<p>--- 802.1p priority</p> <p>--- 802.1Q VLAN tag</p> <p>--- DSCP field in IP packet</p> <p>Traffic classification based, strict priority and WRR</p>

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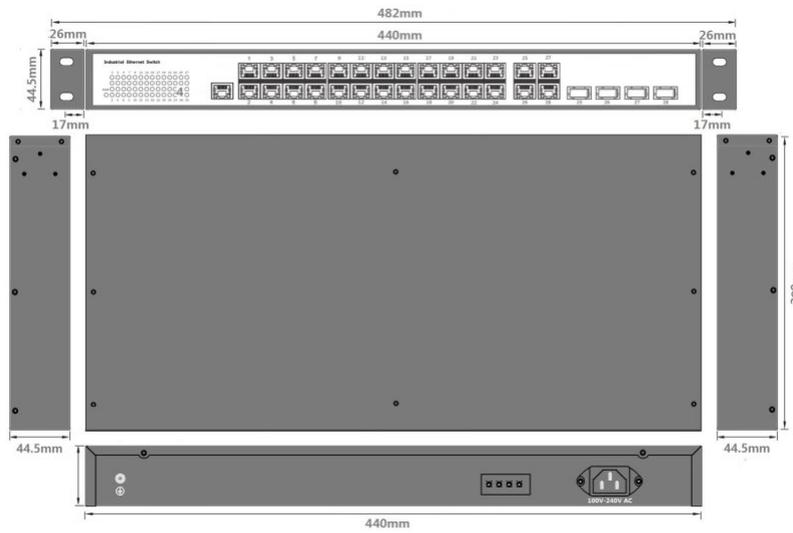
PoE Management	<ul style="list-style-type: none"> Open or close port Standard POE scheduling management Power and current display Automatic restarting function of equipment dead machine Timing Support IP bindings restarting
Security	<ul style="list-style-type: none"> IEEE 802.1X port-based authentication 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 IP source guard
Management Function	
Basic Management Interfaces	<ul style="list-style-type: none"> Web browser / Telnet / SNMP v1, v2c, V3 Firmware upgrade by HTTP / TFTP protocol through Ethernet network Remote / Local Syslog, System log, LLDP protocol, SNTF
Secure Management Interfaces	<ul style="list-style-type: none"> SSH, SSL, SNMP
SNMP MIBs	<ul style="list-style-type: none"> RFC 1213 MIB-II RFC 1215 Generic Traps RFC 1493 Bridge MIB RFC 2674 Bridge MIB Extensions RFC 2737 Entity MIB (Version 2) RFC 2819 RMON (1, 2, 3, 9) RFC 2863 Interface Group MIB RFC 3635 Ethernet-like MIB
Environment	
Safety	FCC Part15 Class A, CE, RoHS
Environment specification	<ul style="list-style-type: none"> Operating temperature: -40°C~85°C, operating humidity: 5%~95% Storage temperature: -40°C~85°C, storage humidity: 5%~95%

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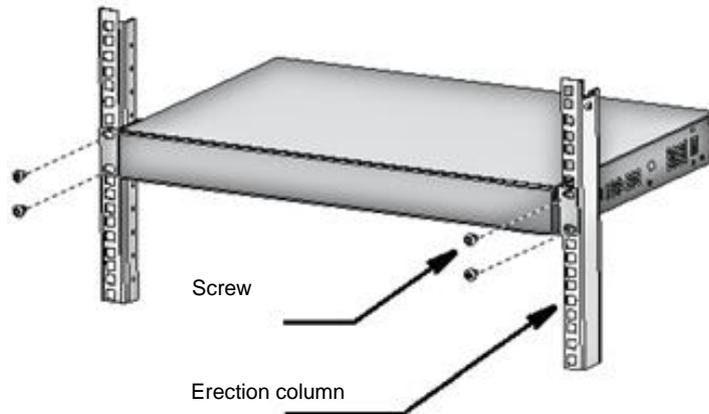


Mechanical Drawing



Installation Models

Rack Mounting

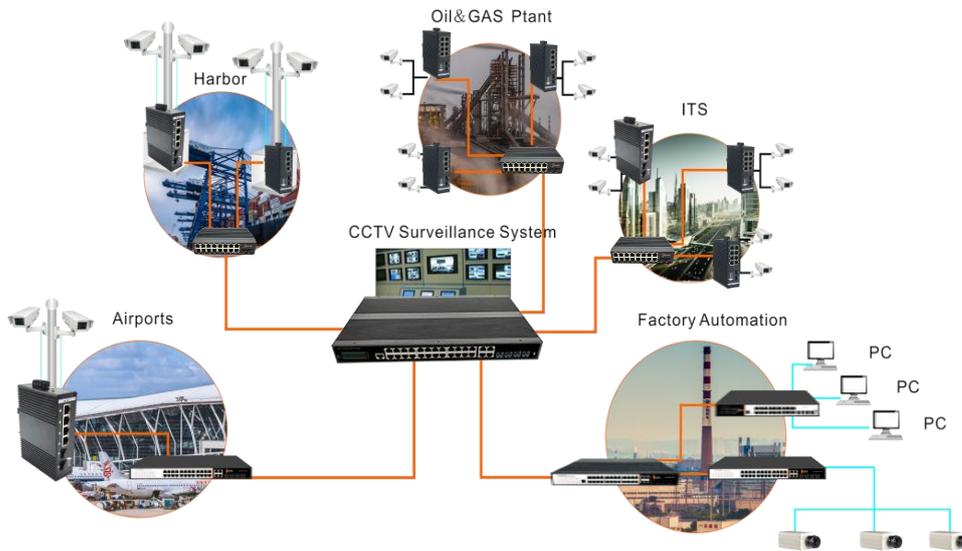


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Applications



Ordering Information

BI8224PGM4GCF-500WS	24 Ports 10/100/1000Mbps Industrial Managed PoE switch With 4 Gigabit RJ45 and 4 Gigabit SFP Combo
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337 Forest Road,
London, United Kingdom



+44 7859 571344



info@bornelectronics.com



<https://bornelectronics.com/>