

16-Port 10/100/1000Mbps

Industrial Managed PoE Switch

with 2 SFP Uplink



IPv6/IPv4 ACL/QoS





Key Features:

Ports: Provide 16*10/100/1000Mbps PoE ports with 2*1000Mbps SFP **PoE Standard:** IEEE802.3af/at Power over Ethernet (PoE) Compliant **Self-adaption:** RJ45 port supports 10/100/1000Mbps Auto MDI/MDIX

Industrial Installation: Din Rail mounting installation

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

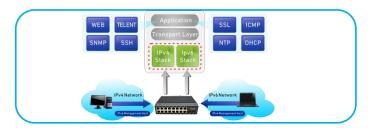
Surge protection: Protect the device from lighting surges and others electrical hazards

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

Working Temperature: -40 to 85 degrees operating temperature **Considerate Design:** IP40 Industrial design with dual power input

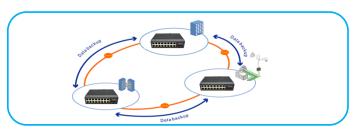
Environmentally Hardened Design

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 BI8216PG2F can be placed in almost any difficult environment.



Surge Protection Design

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





Cost-effective IPv6 Managed Gigabit PoE Switch Solution

With layer 2+ 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.



Comprehensive reliability mechanisms(ERPS)

Besides STP,RSTP, and MSTP, the BI8216PG2F 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.

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Technical Datasheet

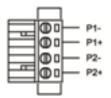
Model	BI8216PG2F		
Hardware Specifications			
Connector	16* 10/100/1000BASE-T RJ45 auto MDI/MDIX ports 2* 1000 Base-X SFP Slots 1 Console port		
PoE Port	16* 10/100/1000Mbps POE PSE port		
LED Display	Power Indicator: PWR(green).Network Indicator: Link(yellow) PoE Working Indicator: PoE(green)		
Thermal Fan	Fanless Design		
Installation	Din Rail		
Switch Architecture	Store and Forward		
Transmission model	IEEE802.3X full-duplex and Backpressure half-duplex		
Switch Performance	Backplane bandwidth	48Gbps	
	Packet forwarding rate	27Mpps	
	MAC address	8k	
Power requirement	DC 44V~54V		
ESD Protection	6KV ESD		
Dimension(WxDxH)	50mm x110mm x 180mm(1.97in x 4.33in x 7.9in)		
Weight	<1.32kg		
Power over Ethernet (PoE) Specific	cations		
	IEEE802.3i 10 BASE-T		
Network standard	IEEE802.3u 100 BASE-TX IEEE802.3ab 1000BASE-T IEEE802.3x Flow Control IEEE802.3af Power over Ethernet IEEE802.3at Power over Ethernet		
PoE Standard	IEEE802.3az EEE IEEE 802.3af Power over Ethernet/PSE		
	IEEE 802.3at Power over Ethernet Plus/PSE		
PoE Supply Type	1/2(+), 3/6(-) End-span		
D-E D Outside	Per Port 52V DC, 300mA. max. 15.4 watts (IEEE 802.3af)		
PoE Power Output	Per Port 52V DC, 600mA. max. 30 watts (IEEE 802.3at)		
PoE Power budget	240W optional		
Layer 2 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	
Industrial Ring	G.8032 (ERPS),Recovery time less than 20ms	
maddia rang	250 Ring at most, Max 1024 devices per ring	
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	
FOE Management	Automatic restarting function of equipment dead machine Timing	
	Support IP bindings restarting	
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	
	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	
Security	Static MAC address	
Gecuny	DHCP Snooping and DHCP Option82	
	STP BPDU guard, BPDU filtering and BPDU forwarding	
	DoS attack prevention	
	ARP inspection	
	IP source guard	
Management Function		
Management unescon	Web browser / Telnet / SNMP v1, v2c, V3	
Basic Management Interfaces	Firmware upgrade by HTTP / TFTP protocol through Ethernet network	
	Remote / Local Syslog,System log,LLDP protocol ,SNTP	
Secure Management Interfaces	SSH, SSL, SNMP	
Secure Management interfaces	RFC 1213 MIB-II	
SNMP MIBs	RFC 1215 Generic Traps	
	RFC 1493 Bridge MIB	
	RFC 2727 Entity MIR (Varion 2)	
	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	Operating temperature: -40℃~85℃, operating humidity: 5%~95%	
	Storage temperature: -40℃~85℃, storage humidity: 5%~95%	

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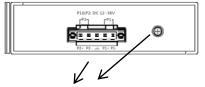
Installation Models

Power Terminal



- 4-pin 3.81mm-spacing plug-in terminal
- ▶ 48V-56VDC wide voltage input
- ◆ P1&P2 dual power input
- Reverse protection

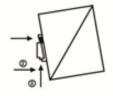
Earth Protection



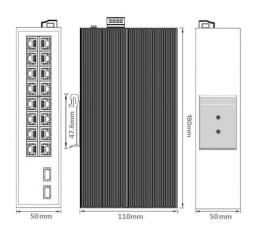
Ground terminal or screw







Mechanical Drawing



Applications



Ordering	Informat	ion
Choen no		ю

BI8216PG2F

16 Ports 10/100/1000Mbps Industrial Managed PoE switch With 2 SFP, IEEE802.3af/at