



BI9208GMC24F4T

24-Ports Gigabit Industrial L3 Managed Fiber Switch with 4-Ports 10G SFP+ Uplink

Datasheet



Key Features:

Ports: Provide 24*100/1000Mbps Fiber ports and 8*10/100/100M RJ45 Ports combo with 4*10Gbps SFP+

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 85 degrees operating temperature

Considerate Design: IP40 Industrial design

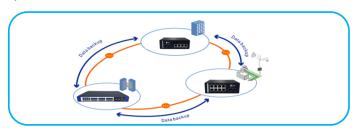
Environmentally Hardened Design

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 BI9208GMC24F4T 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 Fiber Switch Solution

With layer 3 managed Gigabit Fiber 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 BI9208GMC24F4T Managed Fiber 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.

Technical Datasheet

Technical Specifications	BI9208GMC24F4T
100M/1G SFP ports	24
10M/100M/1G RJ-45 copper ports	8(Combo)
1G/2.5G/10G SFP+ ports	4
Console Port (For config)	Yes
USB port (for config file upload/backup	Yes
& firm-ware updates)	165
Performance Specification	
CPU	Dual-Core 1GHz MIPS InterAptive CPU subsystem
Packet buffer memory (Dynamically	12 MB
shared across only used ports)	
Forwarding modes	Store-and-forward
Bandwidth	256 Gbps
Priority queues	8
MAC address database size (48-bit	16K
MAC ad-dresses)	
Multicast groups	1K
Number of IPv4 static routes	32
Number of IPv6 static routes	32
Number of VLANs	4094
Number of VLANs(Open QinQ)	16,760,836(4094*4094)
Number of ARP cache entries	1024 ARP
Number of DHCP snooping bindings	512
Access Control Lists (ACLs)	100 shared for MAC, IP and IPv6 ACLs (ingress)
Packet forwarding rate (64 byte packet size) (Mpps)	24.62
Jumbo frame support (bytes)	Up to 12K packet size
Mean Time Between Failures (MTBF) @ 25°C	193,652 hours
100M Copper Latency (64-byte; 1518-byte; 9216-byte frames)	8.314µs; 8.612µs; 8.451µs
1G Copper Latency (64-byte; 1518-byte; 9216-byte frames)	3.614µs; 3.545µs; 3.628µs
1G Fiber Latency (64-byte; 1518-byte; 9216-byte frames)	2.980µs; 3.101µs; 3.179µs
10G Fiber Latency (64-byte; 1518-byte; 9216-byte frames)	2.330µs; 2.561µs; 2.7129µs

L2 Services - VLANs	BI9208GMC24F4T
IEEE 802.1Q VLAN tagging	Yes
QinQ VLAN tagging	Yes
IP-based VLANs	Yes
MAC-based VLANs	Yes
Protocol-based VLAN	Yes
Voice VLAN	Yes
VLAN mapping	Yes
L2 Services - Availability	
Broadcast, multicast, unknown unicast	Yes
storm control	103
IEEE 802.3ad - LAGs (LACP)	Yes
IEEE 802.3x (full duplex and flow control)	Yes
IEEE 802.1D Spanning Tree Protocol	Yes
IEEE 802.1w Rapid Spanning Tree Protocol	Yes
IEEE 802.1s Multiple Spanning Tree Protocol	Yes
Layer 2 DHCP Relay	Yes
L2 Services - Multicast Filtering	
IGMP snooping (v1, v2 and v3)	Yes
MLD snooping support (v1 and v2)	Yes
IGMP snooping querier (v2)	Yes
MLD snooping querier (v1)	Yes
Multicast VLAN Registration (MVR)	Yes
L3 Services - DHCP	
DHCP client	Yes
DHCP snooping	Yes
DHCP Server	Yes
L3 Services - Routing	
IPv4 static routing	512
IPv6 static routing	512

Link Aggregation	BI9208GMC24F4T
IEEE 802.3ad - LAGs (LACP)	Yes
Manual LAG	Yes
# of LAGs / # of members in each LAG	26 LAGs with max 8 members in each LAG
Network Monitoring and Discovery	
Services	
802.1ab LLDP	Yes
SNMP	v1, v2
RMON group 1,2,3,9	Yes
Network Security	
IEEE 802.1x	Yes
RADIUS accounting	Yes
Access Control Lists (ACLs)	Yes
IP-based ACLs (IPv4 and IPv6)	L2/L3/L4
MAC-based ACLs	Yes
TCP/UDP-based ACLs	Yes
Control MAC # static entries	48
Port-based security by locked MAC	Yes
addresses	
Dynamic ARP inspection	Yes
Quality of Service (QoS)	
Port-based rate limiting	Yes ingress and egress
Port-based QoS	Yes
Support for IPv6 fields	Yes
DiffServ QoS	Yes ingress
IEEE 802.1p COS	Yes
Destination MAC and IP	Yes
IPv4 and v6 DSCP	Yes
TCP/UDP-based	Yes
Weighted Round Robin (WRR)	Yes
Strict priority queue technology	Yes

IEEE Network Protocols	BI9208GMC24F4T
 IEEE 802.3 Ethernet IEEE 802.3u 100BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3az Energy Efficient Ethernet (EEE) IEEE 802.3ad Trunking (LACP) IEEE 802.3z 1000BASE-SX/LX IEEE 802.3ae 10GBASE-SX/LX IEEE 802.3x Full-Duplex Flow Control 	 IEEE 802.1Q VLAN Tagging IEEE 802.1AB LLDP with ANSI/TIA-1057 (LLDP-MED) IEEE 802.1p Class of Service IEEE 802.1D Spanning Tree (STP) IEEE 802.1s Multiple Spanning Tree (MSTP) IEEE 802.1w Rapid Spanning Tree (RSTP) IEEE 802.1x RADIUS Network Access Control
Management, Monitoring & Troubleshooting	
Password management	Yes
Admin access control via RADIUS and TACACS+	Yes
IPv6 management	Yes
SNMP v1/v2c	Yes
RMON group 1,2,3,9	Yes
Port mirroring	Yes ingress and egress
Many-to-one port mirroring	52
Cable test utility	Yes
TLS/HTTPS Web-based access (version)	Yes (v1.2)
File transfers (uploads, downloads)	TFTP / HTTP
HTTP upload/download (firmware)	Yes
Syslog (RFC 3164)	Yes
USB port for firmware and config upload/ download	Yes
LEDs	Yes
Per port	Link, Activity;
Per device	Power, system
Physical Specifications	Yes
Dimensions	440 x 290 x 46 mm (17.32x 11.42 x 1.81 in)
Weight	<6kg (13.23 lb)
Power Consumption (when all ports used, line-rate traffic)	42W
Iddle power consumption (all ports link-down standby) (Watts)	18W
Energy Efficient Ethernet (EEE) IEEE 802.3az	Yes (deactivated by default)
Fan	Fanless

Environmental Specifications	BI9208GMC24F4T
Operating	
Operating Temperature	-30° to 75°C
Humidity	95% maximum relative humidity (RH), non-condensing
Altitude	10,000 ft (3,000 m) maximum
Storage	
Storage Temperature	−40° to 85°C
Humidity (relative)	95% maximum relative humidity, non-condensing
Altitude	10,000 ft (3,000 m) maximum
Electromagnetic Emissions and	
Immunity	
	CF mark commercial

CE mark, commercial

FCC Part 15 Class A, VCCI Class A

Class A EN 55022 (CISPR 22) Class A

Class A C-Tick

EN 55024

CCC

47 CFR FCC Part 15, SubpartB, Class A ICES-003: 2016 Issue 6, Class A

ANSI C63.4:2014

IEC 60950-1:2005 (ed.2)+A1:2009+A2:2013 AN/NZS CISPR 22:2009+A1:2010

CLASS A

Safety

CB mark, commercial

CSA certified (CSA 22.2 #950)

EN 60950-1: 2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 IEC 60950-1:2005

Certifications

Certifications

(ed.2)+A1:2009+A2:2013

AN/NZS 60950.1:2015

CCC (China Compulsory Certificate)

Warranty and Sup	port
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Hardware Limited Warranty

Limited Lifetime*

Technical Support via Phone and

Limited Lifetime*

Email*

Limited Lifetime* 24x7 Online Chat

Limited Lifetime*

Package Contents

Smart industrial fiber switch

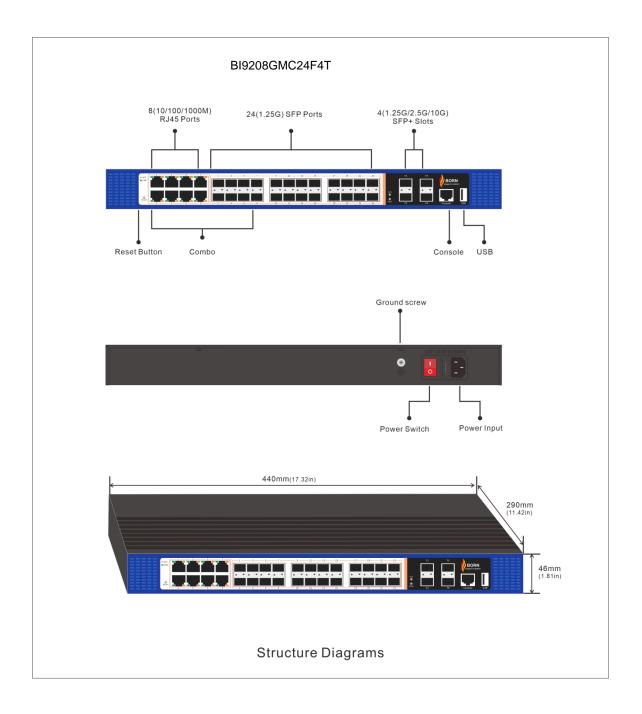
AC Power cord with C13 connector (localized to region of sale)

All models Brackets and screws for rack mounting

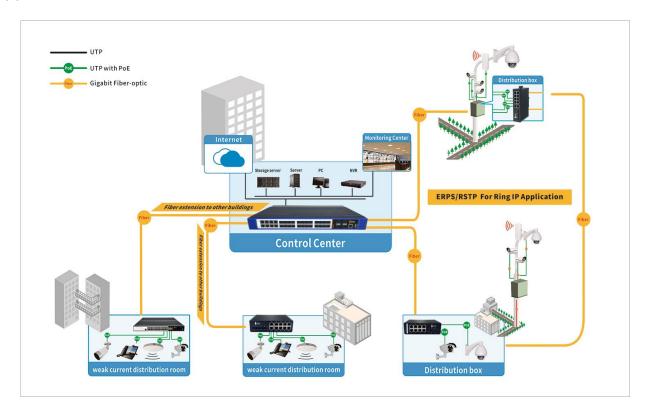
Rubber protection caps, which are already installed in the SFP sockets Installation

guide

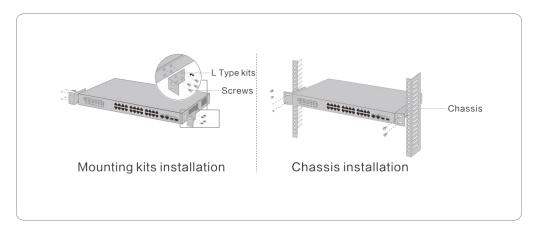
Mechanical Drawing



Applications



Installation Models



Ordering Information	
DIO200CMC24E4T	24 Ports Giagbit Industrial Managed Fiber switch With 8 Ports 10/100/1000M
BI9208GMC24F4T	RJ45 combo and 4 Ports 1G/2.5G/10G SFP+,Rack mount Installation,



337 Forest Road London,United Kingdom



Info@bornelectronics.com



+44 7859 571344



https://bornelectronics.com