# 28 ports Full Gigabit Managed Industrial Switch BI824GM8FC4F

## ❖ Overview

The BI824GM8FC4F is a 28-port L2 managed switch. It supports up to 24*10/100/1000M downlink ports, 8*1000M combo uplink ports and 4*1000M SFP ports. It supports L2 management, such as QoS, VLAN, MSTP, Multi-broadcast, and ports management.

It has a high anti-interference ability, the product supports 6KV surge protection, and 8KV contact / 15KV air ESD protection.

Supports working temperature -40℃～75℃.

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

## ❖ Features

- ❖ With 24*10/100/1000M downlink ports, 8*1000M combo uplink ports and 2*1000M SFP ports;
- ❖ It supports L2 management, such as QoS, VLAN, MSTP, Multi-broadcast, and ports management.
- ❖ 6KV surge protection, 6KV contact / 8KV air ESD protection;
- ❖ Supports working temperature -40℃～75℃.
- ❖ Support wall hanging and desktop installation.

## ❖ Specifications

| Parameter | Specifications |
|---|---|
| Power supply | AC power supply |
| Range of voltage | AC100-240V, 50/60Hz,DC 20-75V |
| Consumption | Self-consumption<20W. |
| Downlink ports | Ports 1~24: 10/100/1000Base-T RJ45,    8*1000Base-X SFP combo ports |
| Uplink ports | Ports 25~28: 4*1000Base-X SFP slots |
| Console port | RJ45 to serial port (38400,8,N,1) |
| Reset key | Short press＞5s, recovery to default |
| Cable and distance | Use cat5e/6,100m |
| Standard | IEEE802.3, IEEE802.3u, IEEE802.3z |
| Switch fabric | 56 Gbps |
| Though put | 42Mpps |
| Buffer | 4M |
| MAC address table | 16K |

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| Indicator | Power: 1 *red ; |
| --- | --- |
| | Uplink25~28: Green LEDs indicate Link/Act |
| | Downlink 1~24: On RJ45 green LEDs indicate Link/Act |
| Protection | Surge: 6KV, standard: IEC61000-4-5   ESD: 8KV: contact / 15KV: air, standard:IEC61000-4-2 |
| Working temperature | -10℃~50℃ |
| Storage temperature | -40℃~85℃ |
| Humidity | 0~95%(No condensation) |
| Dimension(L×W×H) | 442mm×285mm×44mm |
| Material | Metal |
| Color | Black |
| Net-weight | 7.2kg |

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 |
| | 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 |
| | | 802.1D Spanning Tree Protocol (STP) |
| | | 802.1w Rapid Spanning Tree Protocol (RSTP) |
| | | 802.1s Multiple Spanning Tree Protocol (MSTP) |
| | Spanning tree | Loop Guard |
| | | Root Guard |
| | | TC-BPDU Guard |
| | | BPDU Guard |
| | | BPDU Filter |
| | | 256 groups |
| | | IGMP v1/v2/v3 |
| | | Fast Leave |
| | Multicast | Multicast VLAN |
| | | Static Multicast |
| | | Multicast Filter |
| | | IGMP Statistics |
| | | MLD Snooping |
| | | Support total power consumption control |
| | PoE management | Support single port PoE ON/OFF |
| | | Support port output priority |
| | | 4 priority queues |
| | | CoS port-based |
| | | CoS 802.1p-based |
| | QOS | 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 Type |
| | 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 |
| | Local User Name Password Authentication (2 levels) |
| | Loopback detection |
| Management | 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 |
| 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 |

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## ❖ Panel diagram

● Front panel



Ports indicator     Console port     24*10/100/1000Base-T   8*1000 combo   4*1000Base

Reset key

● Back panel



Ground terminal                            DC20-75V     AC 100-240V
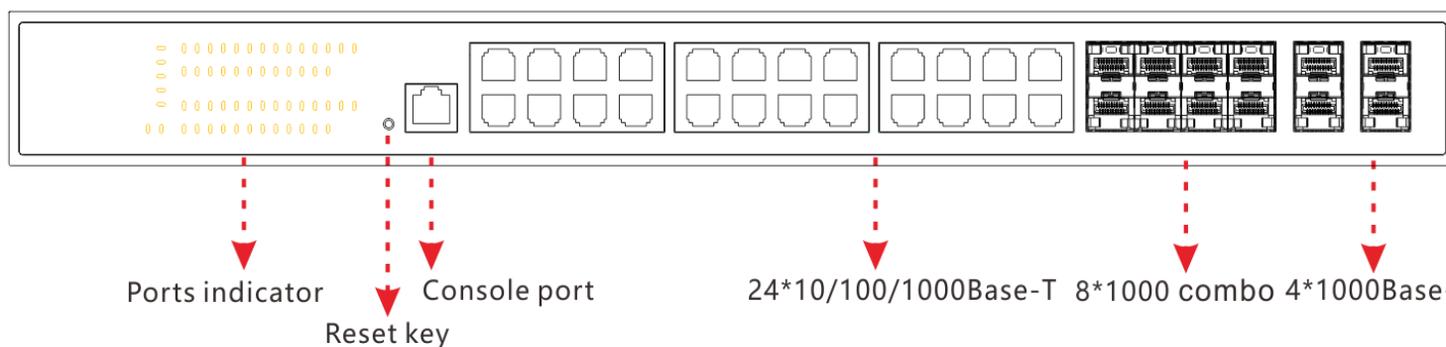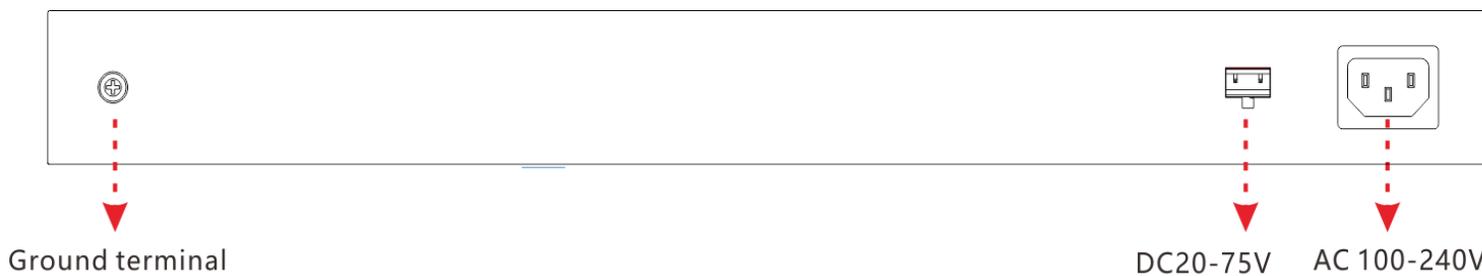
⚠️ **Attention**：This product must be well grounded against lightning, please use better than 20# cable to connect the grounding terminal and ground.

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## ❖ Application

IP camera          IP phone          AP                              Switch

Fiber
Cat5e/6

NVR
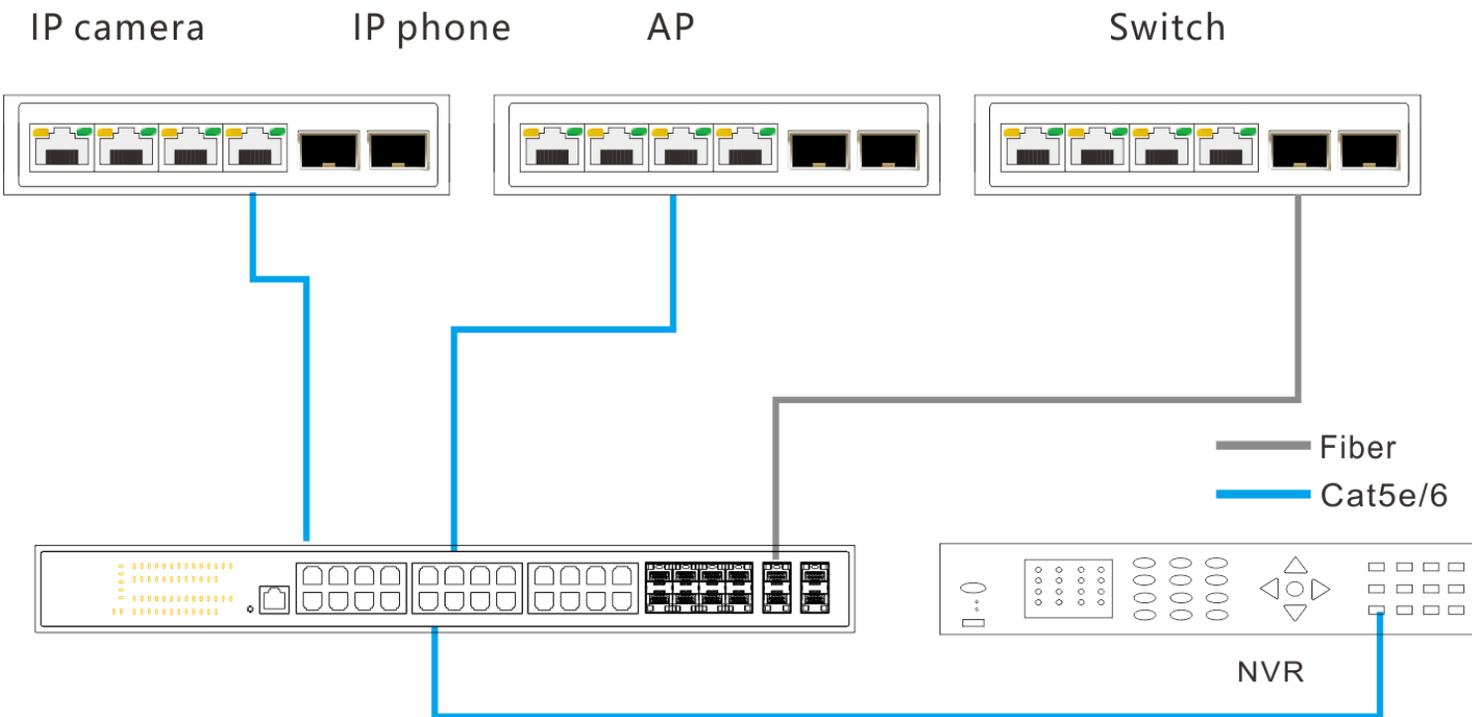
# 28 ports Full Gigabit Managed Industrial Switch BI824GM8FC4F

## ❖ Dimensions
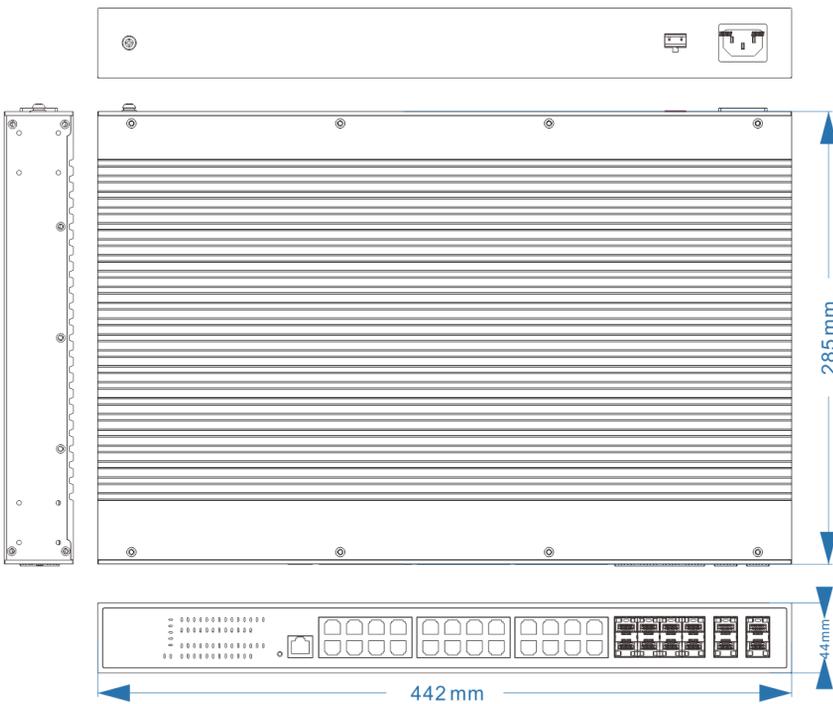


## ❖ Order information

| Model | Description |
|---|---|
| BI824GM8FC4F | With 24 *10/100/1000M ports,8*1000M SFP combo ports, and 4*1000M SFP ports; It supports L2 management, such as QoS, VLAN, MSTP, Multi-broadcast and ports management; 6KV surge protection, 8KV contact / 15KV air ESD protection; It has the characteristics of reliable work, good for engineering installation, strong and durable, high cost performance and so on. It can be used in security network video monitoring system, network engineering and other occasions. |

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**WARRANTY:**
2 YEARS (EXPANDABLE UPTO 4 YEARS)

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