

BC2108GM8F

16-Port Full Gigabit Managed Ethernet Fiber Switch



Ideal for:



Telecom



Hotels & Resorts



Universities



Healthcare



Public Places



Airport



Transport



Industries

OVERVIEW

The BC2108GM8F is a full gigabit managed Ethernet fiber switch. It has 8*10/100/1000Base-T RJ45 ports and 8*100/1000Base-X SFP fiber slot ports. Each port can support wire-speed forwarding. The BC2108GM8F has L2+ full network management function, supports IPV4/IPV6 management, static route full line rate forwarding, complete security protection mechanism, complete ACL/QoS policy and rich VLAN functions, and is easy to manage and maintain. Supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) and (ITU-T G.8032) ERPS(<20ms) to improve link backup and network reliability.

When one-way network fails, communication can be quickly restored to ensure important Uninterrupted communication for applications. According to the actual application requirements, you can configure multiple application services such as port traffic control, VLAN division, and SNMP through the Web network management mode. It satisfies high-density network application environment and is suitable for medium, large-scale scenes such as hotel, campus, park, shopping mall, scenic spot, hospital, bank to form an economical, efficient and reliable communication network.

FEATURES

1. Full Gigabit access, SFP fiber port uplink

- All series supports "Gigabit Ethernet port and Gigabit SFP fiber slot port" combination, which enables users to flexibly build networking to meet the needs of various scenarios.
- Support non-blocking wire-speed forwarding.
- Support full-duplex based on IEEE802.3x and half-duplex based on backpressure.

2. Strong business processing capability

- IEEE802.1Q VLAN, flexible VLAN division, Voice VLAN and QinQ configuration.
- QoS, Priority mode based on 802.1P, Port & DSCP, queue scheduling algorithm including Equ, SP, WRR & SP+WRR.
- ALC, filter data packet through configuring matching rules, processing operation & time permission, and provide flexible and safe access control.
- IGMP V1/V2 and IGMP Snooping.
- ERPS/STP/RSTP/MSTP.
- Static and dynamic aggregation.

3. Security

- 802.1X authentication.
- Port isolation, Storm control.
- IP-MAC-VLAN-Port binding.

BC2108GM8F

16-Port Full Gigabit Managed Ethernet Fiber Switch



4. Stable and reliable

- Low power consumption, galvanized steel casing, The Fan active cooling.
- Self-developed power supply, high redundancy design, providing a long term and stable PoE power output.
- CCC,CE, FCC, RoHS.
- The user-friendly panel, it can show the device status through the LED indicator of PWR, SYS, Link, L/A.

5. Easy operation and maintenance management

- Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3).
- HTTPS, SSLV3, and SSHV1/V2.
- RMON, system log, LLDP, and port traffic statistics.
- CPU monitoring, memory monitoring, Ping test, and cable diagnose.

TECHNICAL SPECIFICATION

| Model | BC2108GM8F |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Interface Characteristics | |
| Fixed Port | 8*10/100/1000Base-T RJ45 ports (Data) 8*100/1000Base-X SFP ports (Data) 1*Console RS232 port (115200,N,8,1) |
| Ethernet Port | Port 1-8 support 10/100/1000Base-T,auto-sensing,Full/half duplex MDI/MDI-X self-adaption |
| Twisted Pair Transmission | 10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-T: Cat5e or later UTP(≤100 meter) |
| SFP Slot Port | Gigabit SFP optical fiber interface, default not matching optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC) |
| SFP Port Expansion | Turbo overclocking 2.5G optical module and ring |
| Optical Cable | Multi mode: 850nm 0 ~ 500M, single mode: 1310nm 0 ~ 40KM, 1550nm 0 ~ 120KM. |
| Chip Parameter | |
| Network Management Type | L2+ |
| Network Protocol | IEEE802.3 10BASE-T, IEEE802.3i 10Base-T IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X, IEEE802.3x |
| Forwarding Mode | Store and Forward(Full Wire Speed) |
| Switching Capacity | 256Gbps |
| Forwarding Rate@64byte | 23.81Mpps |
| MAC | 8K |
| Buffer Memory | 6M |
| Jumbo Frame | 9.6K |
| LED Indicator | Power: PWR (yellow), system: SYS(yellow), Network: Link (yellow), fiber port: L/A (green), speed: 1000M (green) |
| Reset Switch | yes, support one key to restore factory settings |

BC2108GM8F

16-Port Full Gigabit Managed Ethernet Fiber Switch



| Power | |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Total PWR / Input Voltage | 30W/AC100-240V |
| Power Consumption | Standby<8W, Full Load<18W |
| Power Supply | Built-in power supply, AC 100~240V 50-60Hz 0.65A |
| Physical Parameter | |
| Operation TEMP / Humidity | -20~+55°C;5%~90% RH Non condensing |
| Storage TEMP / Humidity | -40~+75°C;5%~95% RH Non condensing |
| Dimension (L*W*H) | 270*181*44.5mm |
| Net /Gross Weight | <1.2kg / <1.7kg |
| Installation | Desktop, wall mounted,19 inch 1U cabinet installation |
| Certification & Warranty | |
| Lightning protection / Protection level | Lightning protection: 4KV 8/20us; Protection level: IP30 |
| Certification | CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B; RoHS |
| Warranty | 3 years, lifelong maintenance. |
| Network Management Features | |
| Interface | IEEE802.3X (Full-duplex) Port temperature protection setting Port green Ethernet Energy-saving setting Broadcast storm control based on port speed The speed limit of the message flow in the access port. The minimum particle size is 64Kbps. |
| Layer 3 Features | L2+ network management ,IPV4/IPV6 management L3 soft routing forwarding, Static route, Default route @ 128 pcs, APR @ 1024 pcs |
| VLAN | VLAN based on MAC VLAN based on the protocol Voice VLAN, QinQ configuration 4K VLAN based on port, IEEE802.1q Port configuration of Access, Trunk, Hybrid |
| Port Aggregation | LACP, Static aggregation Max 8 aggregation groups and 8 ports per group. |
| Spanning Tree | STP (IEEE802.1d),RSTP (IEEE802.1w),MSTP (IEEE802.1s) |
| Industrial Ring Network Protocol | G.8032 (ERPS),Recovery time less than 20ms 250 Ring at most, Max 250 devices per ring. |
| Multicast | MLD Snooping v1/v2,Multicast VLAN IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out |
| Port Mirroring | Bidirectional data mirroring based on port |

BC2108GM8F

16-Port Full Gigabit Managed Ethernet Fiber Switch



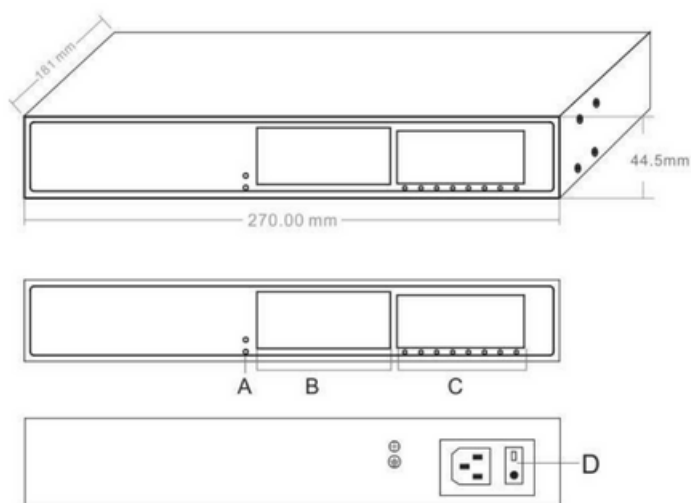
| | |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| QoS | Flow-based Rate Limiting Flow-based Packet Filtering 8*Output queues of each port 802.1p/DSCP priority mapping Diff-Serv QoS,Priority Mark/Remark Queue Scheduling Algorithm (SP, WRR, SP+WRR) |
| ACL | Port-based Issuing ACL,ACL based on port and VLAN L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL based on MAC, Destination MAC address, IP Source, Destination IP, IP Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc. |
| Security | IP-MAC-VLAN-Port binding ARP inspection,Anti-DoS attack AAA & RADIUS,MAC learning limit Mac black holes,IP source protection IEEE802.1X & MAC address authentication Broadcast storm control,Backup for host datum SSH 2.0,SSL,Port isolation,ARP message speed limit User hierarchical management and password protection |
| DHCP | DHCP Client,DHCP Snooping,DHCP Server,DHCP Relay |
| Management | One-key recovery Cable Diagnose,LLDP Web Management (HTTPS) NTP,System work log,Ping Test CPU instant utilization status view Console/AUX Modem/Telnet/SSH2.0 CLI Download & Management on FTP, TFTP, Xmodem, SFTP,SNMP V1/V2C/V3 NMS - smart network management system platform(LLDP+SNMP) |
| System | Category 5 Ethernet network cable Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer10 or later; TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in a network |

BC2108GM8F

16-Port Full Gigabit Managed Ethernet Fiber Switch

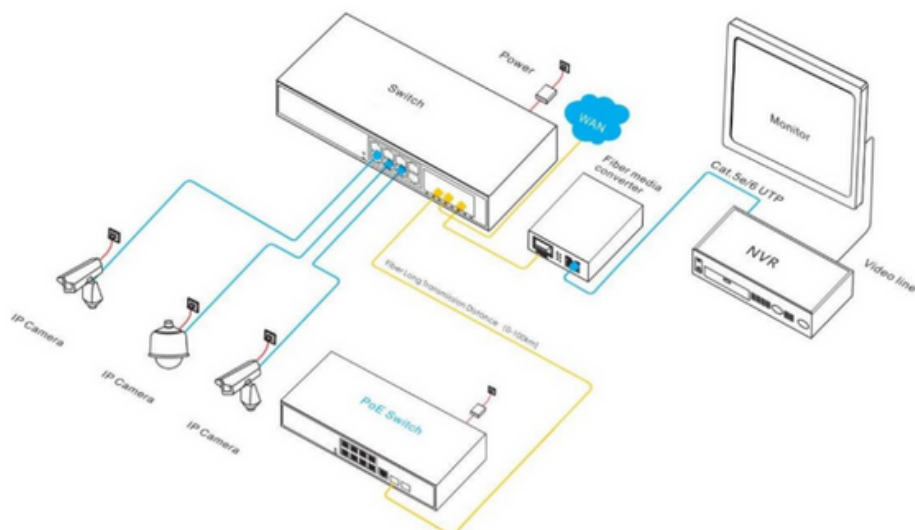


DIMENSION



- A. Working Indicator B. 8* 10/100/1000M RJ45 ports
C. 8*100/1000M SFP ports D. Power input port AC100- 240V,50/60Hz

APPLICATION



BC2108GM8F

16-Port Full Gigabit Managed Ethernet Fiber Switch



PACKING LIST

| PACKING LIST | Content | Qty | Unit |
|--------------|----------------------------------------------------|-----|------|
| | 16-port full gigabit managed Ethernet fiber switch | 1 | SET |
| | AC Power Cable | 1 | PC |
| | RJ45-DB9 Line | 1 | PC |
| | Mounting Kits(Hanging Ear) | 1 | SET |
| | User Guide | 1 | PC |



337 Forest Road,
London, United Kingdom



+44 7859 571344



info@bornelectronics.com



<https://bornelectronics.com/>