

BC2104PGM2F-65W

6-port Gigabit Managed PoE Switch

Datasheet



Ideal for:



Telecom



Hotels & Resorts



Universities



Healthcare



Public Places



Airport



Transport



Industries

The BC2104PGM2F-65W is a full gigabit managed PoE fiber switch. It has 4*10/100/1000Base-T RJ45 ports and 2*100/1000Base-X SFP fiber slot ports. Port 1-4 can support IEEE802.3af/at standard PoE. Single port PoE power reaches 30W, and the maximum PoE output power is 65W. As a PoE power supply device, it can automatically detect and recognize the power receiving equipment that meets the standard and supply power through the network cable. It can supply power to POE terminal equipment such as wireless AP, webcam, VoIP phone, building visual access control intercom, etc. through a network cable to meet the network environment that needs high-density PoE power supply. It is suitable for hotels, campuses, parks, shopping malls, scenic spots, hospitals,, factory dormitory and small and medium-sized enterprise. The BC2104PGM2F-65W has L2+ full network management function, supports IPV4 management, static route full line rate forwarding, 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) 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 PoE power management, port traffic control, VLAN division, and SNMP through the Web network management mode.

TECHNICAL SPECIFICATION

Interface Characteristics

| | |
|---------------------------|---|
| Fixed Port | 4*10/100/1000Base-T POE ports (Data /Power) 2*100/1000Base-X SFP ports (Data) 1*Console RS232 port |
| Ethernet Port | Port1-4 can support 10/100/1000Base-T(X) 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 matching optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC) |
| Optical Cable/ Distance | Multi mode: 850nm 0 ~ 550M, Single mode: 1310nm 0 ~ 40KM, 1550nm 0 ~ 120KM. |

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 | <1.5kg / <2.0kg |
| Installation | desktop type, wall-mounted, 19 inch 1U cabinet installation |

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 | 64Gbps (Non-blocking) |
| Forwarding Rate@64byte | 8.93Mpps |
| MAC | 8K |
| Buffer Memory | 4.1M |
| Jumbo Frame | 10K |
| CPU(Hz) | 500M |
| DRAM | 1G |
| Flash | 128M |
| LED Indicator | Power:PWR (green), network : Link (yellow), fiber port: L/A (green), PoE: PoE (green) |
| Reset Switch | Yes, One-button factory reset |
| 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. |

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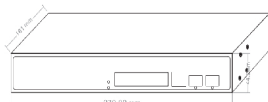


Transport



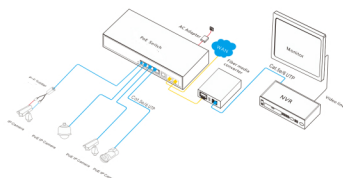
Industries

DIMENSION



A. Working Indicator
B. 4*10/100/1000M PoE Ports
C. Console Port
D. 2*100/1000M SFP Ports
E. Power Input Port 100-240V AC, 50/60Hz

APPLICATION



FEATURES

- ✓ Gigabit access, gigabit SPF port uplink
- ✓ Intelligent PoE power supply
- ✓ Strong business processing capability
- ✓ Stable and reliable
- ✓ Security
- ✓ Easy operation and maintenance management

| PoE & Power Supply | |
|-----------------------------|--|
| PoE Port | Port 1 to 4 IEEE802.3af/at @ PoE |
| PoE Management | PoE working status Delay start of power supply PoE output priority configuration Scheduling of PoE operation and time Total power limit of PoE power supply PoE output power allocation, off& af &at |
| Power Supply Pin | Default 1/2 (+), 3/6 (-) |
| Max Power Per Port | 30W; IEEE802.3af/at |
| Total PWR / Input Voltage | 65W; (AC100-240V) |
| Power Consumption | Standby<6W, Full load<60W |
| Power Supply | Built in power supply , AC100~240V 50-60Hz 1A |
| 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 management Static route, Default route @ 128 pcs, APR @ 1024 pcs |
| VLAN | 4K VLAN based on port, IEEE802.1q, VLAN based on the protocol VLAN based on MAC, QinQ configuration Port configuration of Access, Trunk, Hybrid |
| Port Aggregation | LACP, Static aggregation Max 3 aggregation groups and 8 ports per group. |
| Spanning Tree | STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s) |
| Multicast | MLD Snooping v1/v2, Multicast VLAN IGMP Snooping v1/v2, Max 250 multicast groups, Fast log out |
| Port Mirroring | Bidirectional data mirroring based on port |
| 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 Explorer 10 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 |