

**CS3164GS-POE**

## L2 Managed Ethernet PoE Switch

16GE + 2SFP + 2GE



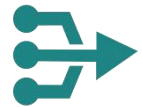
IEEE802.3 AF/AT



ACL Protection



STP/RSTP/MSTP



LACP Protocol

## Brief Views

CS3164GS-POE is a full Gigabit Layer 2 Managed PoE Ethernet Switch. It provides 16 Gigabit ports , 2 Gigabit and 2 SFP Uplink ports, which can meet the requirements of cost-effective Gigabit access or convergence network. It adopts storage-forwarding and dynamic memory allocation technology ,which makes sure each port can work in linear forwarding way. It complies with IEEE802.3 AF/AT standard and can detect the ends automatically. The product has abundant L2 features such as VLAN, LACP, QoS, ACL, and is widely used in the access of enterprise networks and campus networks. It provides the users with a high-performance, easy-to-manage, easy-to-expand, and low-cost solution when it comes to Gigabit to desktop solutions.

## Functional Features

- Comply to IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z;
- 16\*10/100/1000M RJ45 Auto MDI/MDIX ports ;
- 2\*1000M SFP ports + 2\*1000M RJ45 ;
- Support IEEE802.3AF/AT
- Support PoE Power Management, PoE watch dog ;
- Support abundant L2 features such as VLAN, LLDP, QoS, ACL ;
- Support 802.1x port authentication, support AAA authentication, support Radius, TACACS+ authentication ;
- Support DIP mode, VLAN, Default, Extend ;
- Support RMON V1;
- Support IGMP V1/V2/V3 Snooping ;
- Support WEB, TELNET, CLI, SSH, SNMP, RMON management.

## Hardware

- **Downlink ports**
  - 16\*10/100/1000M BASE-T RJ45
- **Uplink ports**
  - 2\* 1000M SFP
  - 2\*1000M RJ45
- **Console port**
  - 1 pcs
- **Switching capability**
  - 40Gbps
- **Packets switching capability**
  - 29.76Mpps
- **Switching method**
  - Storage forwarding
- **LED light**
  - PWR, SYS, PoE, Link/ACT
- **PoE**
  - Max Power: 200W ( Optional 300W), port MAX 30W
- **Environment parameters**
  - Work temperature : -15 - to 55°C
  - Storage temperature : -40 - 70°C
  - Work humidity : 10% to 90%
  - Storage humidity : 10% to 90%
- **Jumbo Frame**
  - 9K
- **MAC table size**
  - 8K
- **Flash size**
  - 16MB
- **DDR3 size**
  - 128MB
- **Power**
  - AC100-240V/50-60Hz
- **Dimension ( W\*D\*Hmm )**
  - 440\*205\*44mm
- **Weight**
  - N.W: 2.7KG, N.W: 3.2KG
- **Certification compliance**
  - FCC CE ROHS

## Software

### ● Basic function

- Support hardware watchdog, factory reset, system and port LED
- Support global information, statistical information, log information
- Support User management, alarm management, configuration management
- Support Port rate, duplex, flow control, maximum frame length configuration
- Support Port mirroring, port speed limit, port energy saving

### ● MAC

- Support MAC address automatic learning and aging
- Support static,dynamic,filtered address table

### ● LACP

- Support Static Aggregation
- Support LACP Dynamic Aggregation
- Maximum support 8 aggregation groups (8 ports per aggregation group)
- Support based on IP, MAC, mixed load-balancing modes

### ● VLAN

- Support 4K VLAN
- Support 802.1Q VLAN,baesd on port VLAN
- Support Access,Trunk,Hybrid VLAN mode
- Support GVRP (VLAN registration protocol)
- Support MAC VLAN,IP VLAN
- Support Voice VLAN

### ● IPv6

- Support IPv6 Ping, IPv6 Traceroute, IPv6 Telnet
- Support IPv6 SSH, HTTP, HTTPS

### ● PoE function

- Support PoE time management
- Support PoE automatic monitoring / PoE Watchdog
- Support PoE port power configuration

### ● Multicast

- IGMP snooping V1/V2/V3
- Support MLD v1/v2 Snooping
- Support Layer 2 multicast fast leave mechanism, querier
- Support Layer 2 IPv4 static multicast
- Support IGMP v1/v2/v3 Layer 3 multicast

### ● STP

- IEEE 802.1D STP
- IEEE 802.1W RSTP
- IEEE 802.1S MSTP

### ● ACL

- Support L2(Layer 2) ~ L4(Layer 4) Packet filtering function
- Support Port mirroring, flow rate limiting, QoS remarking

### ● QoS

- Support 8 port queues
- Support Port priority, 802.1P priority, DSCP priority
- Support SP, WRR Priority scheduling algorithm

### ● Storm suppression

- Support multicast suppression
- Support broadcast storm suppression
- Support unknown unicast suppression

### ● Security features

- Support HTTPS, SSH V1/V2
- Support VLAN-IP-MAC-PORT binding
- Support DHCP Snooping, DHCP Attack protection
- Support 802.1X Certification
- Support AAA (Authentication, Authorization, Accounting), Support RADIUS protocol
- Support Port security, port isolation

### ● Management and Maintenance

- Support WEB Management (HTTP、HTTPS)
- Support CLI (Telnet, SSH V1/V2, Local serial port)
- Support SNMP V1/V2/V3
- Support RMON V1
- Support LLDP Device discovery
- Support SNTP Time synchronization
- Support CPU Monitoring, Memory Monitoring
- Support System log, classification warning
- Support Ping, Traceroute detection, cable detection