

**CI4164GS**

L2+ Industrial Managed Ethernet Switch

16GE +4SFP**-40 - 85°C****1588 Clock Protocol****STP/ ERPS <20ms****IP40 Protection**

Brief Views

CI4164GS an hardened 20-port Industrial Ethernet Switch, provides non-blocking wire-speed performance in harsh industrial environment. It provides 16-port 10/100/1000BASE-TX RJ45 +4G SFP delivered in an IP40 rugged, strong case with redundant power system. Its slim case is suitable for such applications as surveillance system deployments, control management and wireless service in climatically demanding environments with wide temperature range from -40°C to 85°C.

Functional Features

- 16*10/100/1000M RJ45 Auto MDI/MDIX
- 4*100/1000M SFP ports;
- Support LACP protocol;
- Support LLDP protocol;
- Support IPv6, static routing;
- Support 1588 clock protocol;
- Support IGMP Snooping ,IGMP V1/V2/V3;
- Support STP/RSTP/MSTP, support ERPS (self-healing time <20ms);
- Support QoS (IEEE 802.1p/1Q) and TOS/Diffserv to increase network stability;
- Support ACL access control list;
- Support WEB, SNMP management mode;
- Support power supply, port, abnormal state relay output.

Hardware

- **Downlink ports**
 - 16*10/100/1000BASE-T
- **Uplink ports**
 - 4*SFP
- **Console port**
 - 1 pcs
- **Switching capability**
 - 106Gbps
- **Packets switching capability**
 - 78Mpps
- **Switching method**
 - Storage forwarding
- **LED light**
 - Power,system
- **Enviroment parameters**
 - Storage temperature: -40 to 85°C
 - Work temperature: -40° to 85°C
 - Work humidity: 5% to 95%
 - Storage humidity: 5% to 95%
- **IP class**
 - IP40 aluminum housing
- **MAC table size**
 - 8K
- **FAN**
 - Fanless,natural cold
- **MTBF**
 - >300,000hours
- **Power**
 - 12 to 52V DC redundant power
- **Power consumption**
 - <10W
- **Dimention (W*D*Hmm)**
 - 165×135×68mm
- **Weight**
 - Product Weight:1.25KG
 - Packing Weight: 1.35KG
- **Certification**
 - CE FCC ROHS compliance
- **Installation**
 - DIN rail

● EMC

- IEC61000-4-2 (ESD): $\pm 8\text{kV}$ (contact), $\pm 12\text{kV}$ (air)
- IEC61000-4-3 (RS): 10V/m (80~1000MHz)
- IEC61000-4-4 (EFT): Power Port: $\pm 4\text{kV}$; Data Port: $\pm 2\text{kV}$
- IEC61000-4-5 (Surge): Power Port: $\pm 2\text{kV/DM}$, $\pm 4\text{kV/CM}$; Data Port: $\pm 2\text{kV}$
- IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)
- IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)

Software

● Jumbo Frames

- 9600bytes

● VLAN

- Port based VLAN
- IEEE 802.1Q VLAN
- Max.4094 VLANs
- Support GVRP protocol
- Support Access,Trunk,Hybrid

● QoS

- IEEE 802.1p/1Q
- TOS/ Diffserv

● LACP

- Support Link Aggregation Control Protocol

● LLDP

- Support Link Layer Discovery Protocol

● Multicast

- IGMP v1/v2/v3
- IGMP snooping

● IP

- IPV4/IPV6
- Support static routing

● Security feature

- Support ACL
- Support 802.1x
- Support user classification management
- Support mac address binding
- Ring protect protocol
- Support STP/RSTP/MSTP
- Support ERPS (self-healing time <20ms)

● Flow control

- Support 802.3x full duplex flow control
- Support network storm suppression

● Monitoring maintenance

- Support port mirroring
- Support interface status monitoring
- Support log management

- **Storm control**

- Broadcast/Multicast/Unknown Unicast storm control

- **SNMP**

- SNMP V1,V2,V3

- **DHCP Snooping**

- Prevent illegal DHCP server

- **Alarm function**

- Support power supply, port, abnormal state relay output

- **Clock protocol**

- Support 1588 clock protocol

- **Network management**

- Support SSH/Telnet

- CLI

- SNMP

- WEB

(IP:192.168.10.12 ,username/password: admin/admin)