

# 10-Port Giga Managed Ethernet Switch



- 2~8\*10/100/1000BaseT(X) RJ45 ports, Auto-Negotiation speed(10M/100M/1000M), auto Duplex mode and MDI/MDI-X connection
- 0~8\*1000M SFP port, 1000M optic fiber or RJ45 interface module optional
- Managed with Web, CLI and SNMP, CLI can login with Telnet and CONSOLE
- QoS, IGMP, GMRP, 802.1Q VLAN to ease network planning
- RSTP and CK-ring and ERPS for network redundancy, recovery time < 20ms
- Warning by relay output for power, ports and network status
- Metal housing with IP40 protection, EMC industrial level 3 supported
- Wide range voltage (12~48V DC) redundant dual inputs, full-load power consumption < 11W
- DIN-Rail Mounting and Wall Mounting supported
- Standard operating temperature -40~85℃ to satisfy harsh industrial environment

## Product Overview

10-Port Giga Managed Ethernet Switch is designed with IP40 protection housing, supports EMC industrial level 3 and provides a high cost performance Ethernet solution. You can manage it by powerful features with WEB browser, Command Line (CLI) and SNMP. It also supports redundant dual inputs with wide range voltage (12~48V DC) to improve the reliability. 2~8\*10/100/1000BaseT(X) RJ45 ports and 0~8\*1000M SFP ports can be combined according to your requirements. Furthermore, DIN35 or wall mounting is provided for distinct industrial installation.

## Features

### Basic Switching Features

- IEEE802.3/802.3u/802.3ab/802.3x, store-and-forward switching
- 2~8\*10/100/1000BaseT(X) RJ45 ports, Auto-Negotiation speed(10M/100M/1000M), auto Duplex mode and MDI/MDI-X connection
- 0~8 \*1000M SFP port, 1000M fiber port or RJ45 port module selective
- Broadcast storm control
- Metal housing with IP40 protection and EMC industrial level 3
- Wide range power voltage with 12~48V DC inputs, full load power consumption less than 11W
- Working temperature range of -40~85℃

### Advanced Industrial Ethernet Network Features

- Web, CLI and SNMP management, CLI can login with Telnet and CONSOLE
- Port setting, e.g., Enable/disable the port, speed or mode setting, flow control
- Port Mirroring to debug online or monitor the data status
- Rate-limit to optimize the bandwidth of network

- Port trunking to expand the bandwidth and improve the efficiency of the network
- QoS setting to improve the quality of the service
- Port MAC-address learning and statistics
- 802.1Q VLAN to control multicast domain
- Unicast/multicast MAC-address management
- IGMP Snooping to filter multicast traffic
- GMRP industrial multicast registration protocol for application in substation
- SNMP V1/V2C/V3 improve the security of network management in different level
- RSTP to avoid indefinite message copy in the ring
- Auto-recovery redundant CK-Ring(full-load failure recovery time < 20ms), supports Single-Ring, Tangency-Ring and Intersection-Ring
- ERPS, industrial ethernet ring protection to meet the application requirement of industry fast convergence reliability
- Warning by relay output
- Rich network system management

## Specifications

### Interfaces

- RJ45 port: 10/100/1000BaseT(X)Auto-Negotiation speed, auto Full/Half Duplex, auto MDI/MDI-X connection
- SFP port: 1000M SFP port, 1000M optic fiber or RJ45 interface optional
- Console: RS-232(RJ45 port)
- Warning: 1 relay, current load DC24V/1A
- Power: Dual inputs, 2 pluggable four-pins power terminals

### Exchange Property

- Ten trillion forwarding speed:14881pps
- Fast forwarding speed:148810pps
- Gigabit forwarding speed: 1488095pps
- Transmission way: Store-and-forward.
- Switching bandwidth:20Gbps
- Buffer memory size:2Mbits
- MAC address table:8K

### Power Requirements

- Dual redundant inputs with wide range voltage (12~48V

DC), typical 12V/24V/48V

- Full load power consumption less than 11W
- Overload-Current protection

### Relay

- Warning output: for port, power or ring failure
- Contact Capability: DC24V/1A, industrial terminal

### Physical Characteristics

- Dimensions (W x H x D): 51.5mm×150.5mm×125.5mm
- Weight: 900 g
- Housing: Metal, IP40 protection
- Installation: Wall mounting or DIN rail mounting

### Environment Limits

- Work Temp.: -40℃~85℃
- Storage Temp.: -40℃~85℃
- Relative Humidity: 5%~95% (non-condensing)

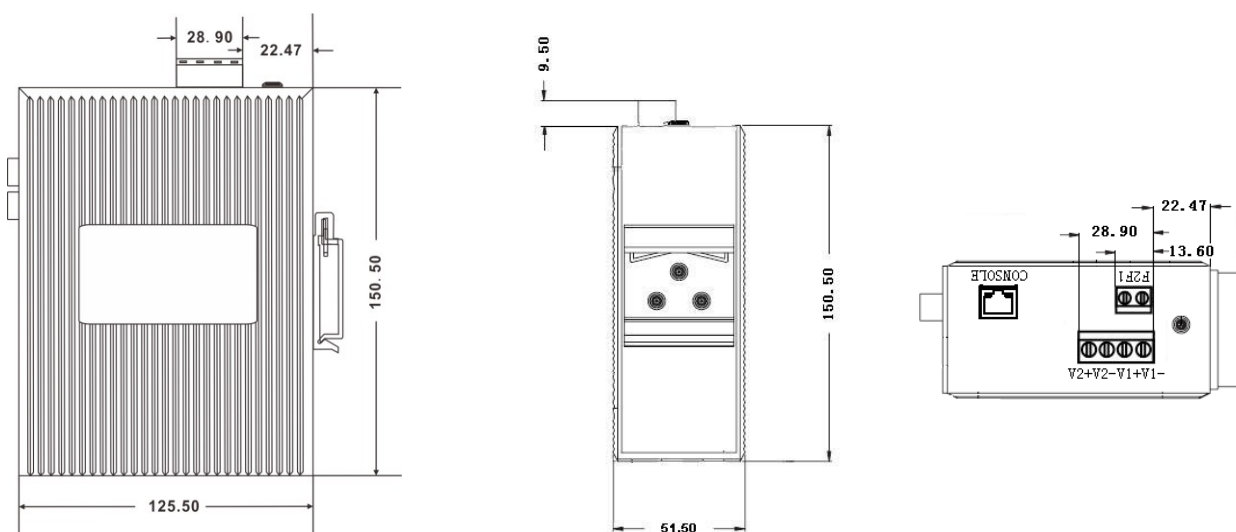
### Warranty

- Warranty Period: 5 years

## Standard and Certifications

- IEC61000-4-2(ESD): ±6KV touch, ±15KV atmosphere
- IEC61000-4-3(RS): 10V/m (80-1000MHZ)
- IEC61000-4-4(EFT): power cable ±2KV, data cable ±2KV
- IEC61000-4-5(Surge): power cable ±2KV CM/±1KV DM, data cable: ±4KV
- IEC61000-4-6(CS): 3V (10KHZ-150KHZ), 10V(150KHZ-80MHZ)
- IEC61000-4-8(MS): 100A/M COUNT 1000A/M, 1S TO 3SI
- IEC61000-4-12/18(HFRD): 2.5KV CM, 1KV DM
- IEC61000-4-10(DP): 30A/M
- IEC61000-4-16(CM): 30V COUNT 300V, 1S
- IEC61000-6-2, IEC61850-3, IEEE1613
- EN50121-4

## Dimensions(mm)



## Models

Model	Specs
CK7110M-8GTX	8*10/100/1000BaseT(X) RJ45 ports, DIN35 rail mounting
CK7110M-8GTX2SFP	8*10/100/1000BaseT(X) RJ45 ports, 2*1000M SFP slots (optical or electrical interface optional, transceiver module not included), DIN35 rail mounting
CK7110M-6GTX4SFP	6*10/100/1000BaseT(X) RJ45 ports, 4*1000M SFP slots (optical or electrical interface optional, transceiver module not included), DIN35 rail mounting
CK7110M-4GTX6SFP	4*10/100/1000BaseT(X) RJ45 ports, 6*1000M SFP slots (optical or electrical interface optional, transceiver module not included), DIN35 rail mounting
CK7110M-2GTX8SFP	2*10/100/1000BaseT(X) RJ45 ports, 8*1000M SFP slots (optical or electrical interface optional, transceiver module not included), DIN35 rail mounting

## Package List

- 10-Port Giga Managed Industrial Ethernet Switch with industrial power terminal
- Matching the corresponding number of SFP optical modules according to the product model
- Product Manual
- Product Warranty