

## 10-Port Managed Industrial Ethernet Switches



- 4~8\*10/100BASE-T(X) Ethernet RJ45 ports, rate self-adaptation, full/half Duplex mode, MDI/MDI-X self-adaption
- 0~4\*100BASE-FX full Duplex optical interfaces (default SC interface, FC/ST optional), max transmission up to 120 km
- 0~2\*1000M SFP slots, adaptable to 1000M SFP optical module (support SM/MM) and 1000M SFP electric interface module (Support twisted pair transmission)
- Support Web, CLI and SNMP three management modes, CLI can log in with Telnet and CONSOLE
- Support QoS, IGMP, 802.1Q VLAN function
- Support RSTP and CK-ring for network redundancy, recovery time < 20ms
- Support warning by relay output for power, ports and network status
- Adopt with high strength IP40 housing, industrial EMC design
- Support redundant wide range voltage (12~48V DC) power input, full-load power consumption < 11W
- Support DIN-Rail Mounting installation
- Working temperature range: -40~85 °C, suitable for harsh environment applications

### Product Overview

10-Port Managed Industrial Ethernet Switches adopt with high strength IP40 protective housing, industrial EMC design, Support wide range redundant power input (12 ~ 48V DC) to increase the reliability of communication network. Provide powerful management functions, which can be managed through Web browser, command line (CLI) and SNMP. Support 4-8\*10/100BASE-T(X) RJ45 ports, 0-4\*100BASE-FX SC optical interfaces (optional FC, ST) and 0-2\*1000BASE-X SFP interfaces, the optical and electrical combination can be flexibly carried out according to the needs of business ports. Base on the requirements of industrial installation, DIN35 rail is provided. The product also adopt with fan-free, low power consumption, industrial design, working temperature range of - 40 ~ 85 C, which can meet the requirements of various industrial sites and provide convenient Ethernet communication solutions.

### Features

#### Basic Switching Features

- Support IEEE802.3/802.3u/802.3ab/802.3x standard, store and forward switching mode
- Support 4~8\*10/100BASE-T(X) RJ45 ports, Auto-Negotiation technology, Automated negotiation rate(10M/100M), Duplex mode(half/full duplex) and MDI/MDI-X self-adaption
- Support 0~4\*100BASE-FX optical interfaces, default SC interface, FC/ST optional, max transmission up to 120 km
- Support 0~2 \*1000 BASE-X SFP interfaces, adaptable to 1000M SFP optical module (support SM/MM) and 1000M SFP electric interface module (Support twisted pair transmission)
- Support broadcast storm suppression function
- Adopt with high strength IP40 housing and industrial EMC design
- Support redundant wide range voltage 12~48V DC power input, full load power consumption less than 11W

- -40~85°C working temperature range

#### Advanced Industrial Redundant Ethernet Network Features

- Support Web, CLI and SNMP three management modes, CLI can log in with Telnet and CONSOLE
- Support Store and Forwarding Mechanism
- Support common port feature settings, such as port enabling, adaptive or coercive, flow control, etc
- Support port Mirroring to debug online or monitor the data status
- Support port bandwidth limitation function to optimize bandwidth utilization
- Support port aggregation function to expand network bandwidth and improve network transmission efficiency
- Support port priority QoS settings to improve network quality of service
- Support port MAC-address learning and statistics
- Support 802.1Q VLAN setting to effectively control the broadcast domain
- Support unicast/multicast MAC-address management

- Support static IGMP multicast filtering for filtering multicast traffic in industrial Ethernet protocols
- Support SNMP V1/V2C/V3 to make network management at different levels secure
- Support RSTP to avoid message multiplication and infinite cycle in loop network

- Support plug and play redundant self-healing Ethernet loop network technology (failure recovery time under full load < 20ms), support three loop network models: single loop, tangent and intersection
- Support relay alarm output
- Support whole network system management

## Specifications

### Interfaces

- RJ45 port: 10/100BASE-T(X) rate self-adaption, Full/Half Duplex, MDI/MDI-X self-adaption
- 100M optical interface: 100BASE-FX full Duplex, default SC interface, FC/ST optional, max transmission up to 120 km
- SFP interface: 1000BASE-X SFP optical port, adaptable to 1000M SFP optical module (support SM/MM) and 1000M SFP electric interface module (Support twisted pair transmission)
- Console: RS-232(RJ45 connector)
- Alarm output: 1 relay output, current load capacity DC24V/1A
- Power input: Dual power input, standard industrial terminals with 4-core pluggable 7.62 mm spacing

### Exchange Property

- 10M forwarding speed: 14881pps
- 100M forwarding speed: 148810pps
- 1000M forwarding speed: 1488095pps
- Transmission way: store and forward.
- System switching bandwidth: 5.6Gbps
- Cache size: 1Mbits
- MAC address table: 8K

### Power Requirements

- Support redundant power input, typical working voltage 12V/24V/48V
- Full load power consumption less than 11W
- Built-in over current protection

### Relay

- Relay alarm output: port failure, power failure and loop network failure
- Maximum Contact Capacity: 1A@24VDC, Industrial Terminal Interface

### Physical Characteristics

- Dimensions (W x H x D): 150.5mm×50mm×125.5mm
- Weight: 900 g
- Housing: IP40 protection, Metal housing
- Installation: DIN rail mounting

### Environment Limits

- Work Temp.: -40°C~85°C
- Storage Temp.: -40°C~85°C
- Relative Humidity: 5%~95% (no-condensation)

### Warranty

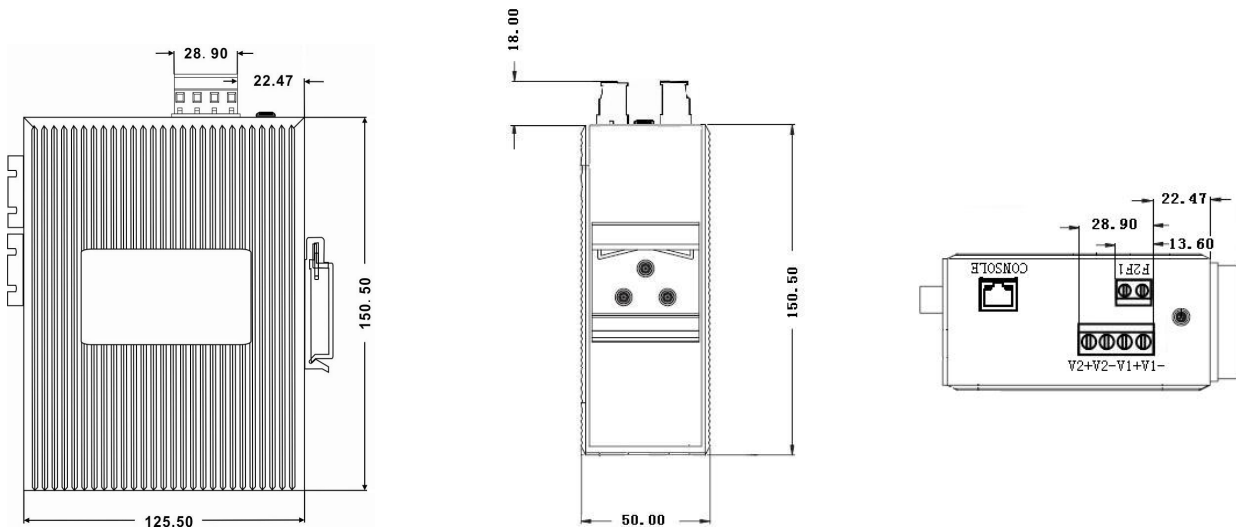
- Warranty Period: 5 years

## Standard and Certifications

- IEC61000-4-2(ESD): ±6KV Contact Discharge, ±15KV Air Discharge
- IEC61000-4-3(RS): 10V/M (80-1000MHZ)
- IEC61000-4-4(EFT): Power Cable ±2/4KV, Data Cable ±2KV
- IEC61000-4-5(Surge): Power Cable ±4KV CM/±2KV DM, Data Cable: ±4KV
- IEC61000-4-6(Radio Frequency Conduction): 3V (10KHZ-150KHZ), 10V(150KHZ-80MHZ)

- IEC61000-4-8(Power Frequency Magnetic Field): 100A/M COUNT 1000A/M, 1S TO 3S
- IEC61000-4-12/18(Oscillating Wave): 2.5KV CM, 1KV DM
- IEC61000-4-10(Damped Oscillation): 30A/M
- IEC61000-4-16(Common Mode Conduction): 30V COUNT 300V, 1S
- IEC61000-6-2(General Industrial Standards), IEC61850-3(Transformer Substation), IEEE1613(Power Substation)
- EN50121-4(Rail Transit)

## Dimensions(mm)



## Models

Model	Specs
Ck6080	Industrial Managed Switch, 8*10/100BaseT(X) RJ45 ports, DIN35 rail mounting
Ck6071	Industrial Managed Switch, 7*10/100BaseT(X) RJ45 ports, 1*100BaseFX fiber interface, single-mode/multi-mode, DIN35 rail mounting
Ck6062	Industrial Managed Switch, 6*10/100BaseT(X) RJ45 ports, 2*100BaseFX fiber interfaces, single-mode/multi-mode, DIN35 rail mounting
Ck6044	Industrial Managed Switch, 4*10/100BaseT(X) RJ45 ports, 4*100BaseFX fiber interfaces, single-mode/multi-mode, DIN35 rail mounting
Ck7080	Industrial Managed Switch, 8*10/100BaseT(X) RJ45 ports, 2*1000M SFP slots (optical or electrical interface optional, transceiver module not included), DIN35 rail mounting
Ck7071	Industrial Managed Switch, 7*10/100BaseT(X) RJ45 ports, 1*100BaseFX fiber interface, single-mode/multi-mode, 2*1000M SFP slots (optical or electrical interface optional, transceiver module not included), DIN35 rail mounting
Ck7062	Industrial Managed Switch, 6*10/100BaseT(X) RJ45 ports, 2*100BaseFX fiber interfaces, single-mode/multi-mode, 2*1000M SFP slots (optical or electrical interface optional, transceiver module not included), DIN35 rail mounting
Ck7044	Industrial Managed Switch, 4*10/100BaseT(X) RJ45 ports, 4*100BaseFX fiber interfaces, single-mode/multi-mode, 2*1000M SFP slots (optical or electrical interface optional, transceiver module not included), DIN35 rail mounting

## Package List

- 10-Port Managed Industrial Ethernet Switch 1pcs( with 2-core and 4-core 7.62mm industrial terminals)
- Product Manual 1pcs