

28/20-port 100M Managed POE Industrial Ethernet Switches



- 16 fixed 10/100M Ethernet RJ45 ports, rate self-adaption, full/half duplex mode, MDI/ MDI-X self-adaption;
- 4 fixed 1000M SFP interfaces, adaptable to 1000M SFP optical module(support SM/MM) and 1000M SFP electrical interface module(Support twisted pair transmission);
- Optional 8*10/100M Full duplex optical ports(default SC interface, FC/ST optional, transmission up to 120 km) or 8*10/100M Ethernet RJ45 ports or 8*10/100M SFP interfaces;
- 16 Ethernet ports support the standard POE function (a maximum of 24 Ethernet ports support POE) and support the IEEE 802.3at/af standard. The total power cannot exceed 300W;
- Support Web, CLI and SNMP three management modes, and CLI supports Telnet and console login;
- Support QoS, IGMP, 802.1Q VLAN function;
- Support RSTP and CK-Ring for Ethernet redundancy;
- Support relay alarm output for power supply, port and ring network status alarm;
- Support wide range voltage 90~264V AC single power input(128V DC ~ 370V DC optional);
- Adopt with high strength IP40 housing and industrial EMC design;
- Support 1U standard rack installation;
- Working temperature range: -40~85°C, meet various industrial site requirements

Product Overview

28/20-port 100M Managed POE Industrial Ethernet switches adopt high strength IP40 protective housing, industrial EMC design, including CRS7128P-8TX, CRS7128P-8FX, CRS7128P-8SFP and CRS7120P four models. They are layer2 Ethernet switches independently developed by Shenzhen Comark Technology Co., Ltd. Provide powerful management functions, which can be managed through Web browser, command line (CLI) and SNMP. The products provide 16 fixed 10/100M self-adaptive Ethernet ports, 4 fixed 1000M SFP interfaces (adaptable to 1000Base-X or 1000Base-T modules) and 8 optional 100Base-FX optical interfaces (default SC interface, FC/ST optional) or 8*100M SFP interfaces (adaptable to 100Base-X or 100Base-T modules) or 8*10/100M self-adaptive Ethernet ports. The 16 Ethernet ports support the standard POE function (a maximum of 24 Ethernet ports support POE) and support the IEEE 802.3at/af standard. The total power cannot exceed 300W .Base on industrial installation requirements, provide 1U standard rack mounting mode. The products also adopt 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

- Conform to IEEE802.3/802.3u /802.3z standard, store and forward switching
- Provide 16 fixed 10/100M self-adaptive ports, Auto MDI/MDIX
- Provide 4 fixed 1000M SFP interfaces(1000Base-X or 1000Base-T module optional)
- Provide optional 8*10/100Base-FX optical ports(default SC interface, FC/ST optional) or 8*100M SFP interfaces(100Base-X or 100Base-T modules optional) or 8*10/100M self-adaptive Ethernet ports
- The 16 Ethernet ports support the standard POE function (a maximum of 24 Ethernet ports support POE)
- Adopt with housing with IP40 housing and industrial EMC design
- Support wide range voltage 90~264V AC single power input(128V DC ~370V DC optional)
- -40~75°C working temperature range

Advanced Industrial Redundant Ethernet Network Features

- Support Web, CLI and SNMP three management modes, CLI supports Telnet and CONSOLE login
- Support store and forward mechanism
- Support common port feature settings, such as port enabling, adaptive or forced, flow control, etc
- Support port mirroring for online debugging and monitoring of network data status
- Support the function of port bandwidth limitation and optimize bandwidth utilization
- support port aggregation function to expand network bandwidth and improve network transmission efficiency.
- Support port priority QoS settings to improve network service quality
- Support port MAC address learning and data statistics functions
- Support 802.1Q VLAN setting and effectively control

broadcast domain

- Support unicast / multicast MAC address management
- Support static IGMP multicast filtering, which is used to filter the multicast traffic in the industrial Ethernet protocol.
- Support broadcast storm suppression function
- Support SNMP V1 / V2C / V3 to make different levels of network management secure

- Support RSTP to avoid message proliferation and infinite loop in the loop network
- supports plug and play redundant self-healing Ethernet ring network technology, and supports three ring network modes: single ring, tangent and intersection.
- Support relay alarm output
- Support the whole network system management

Specification

Technology

- Standard: IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3x, IEEE802.1Q, IEEE802.1p, IEEE802.1d, IEEE802.1w

Interfaces

- RJ45 port: 10/100BASE-T(X) rate self-adaption, full/half duplex mode, MDI/MDI-X self-adaption.
- SFP interface: 1000BASE-X or SFP Copper 1000Base-T (Support twisted pair transmission)
- Optical interfaces: 100Base-X full Duplex, default SC port, FC/ST optional, transmission up to 120 km
- Console: RS-232 (RJ45 connector) debugging serial ports

Exchange Property

- 10M forwarding speed:14881pps
- 100M forwarding speed:148810pps
- 1000M forwarding speed:1488096pps
- Transmission way:Store-and-forward.
- System switching bandwidth:56Gbps
- Cache size:1.5Mbits
- MAC address table:16K

Power Supply

- Alternating current power supply: wide range voltage 90~264V AC(50 ~ 60Hz 1.2A) single power input, with three-wire single-phase power cord
- Direct-current power supply: wide range voltage 128~370V DC single power input, with 2 cores 7.62mm spacing industrial terminal, power supply supports reverse connection protection and non polarity function

Relay

- Relay alarm output: alarm output of port failure, power failure and ring network failure
- Max. contact capacity: 1A@24VDC

Mechanical Properties

- Dimension(W×H×D): 482.6mm×44mm×275mm
- Net weight: 3.15 Kg
- Housing: IP40 protection, metal housing
- Installation: 1U standard rack installation

Operating Environment

- Working temperature:-40°C~85°C
- Storage temperature: -40°C~ 85°C
- Relative humidity: 5% ~ 95% (no condensation)

Warranty

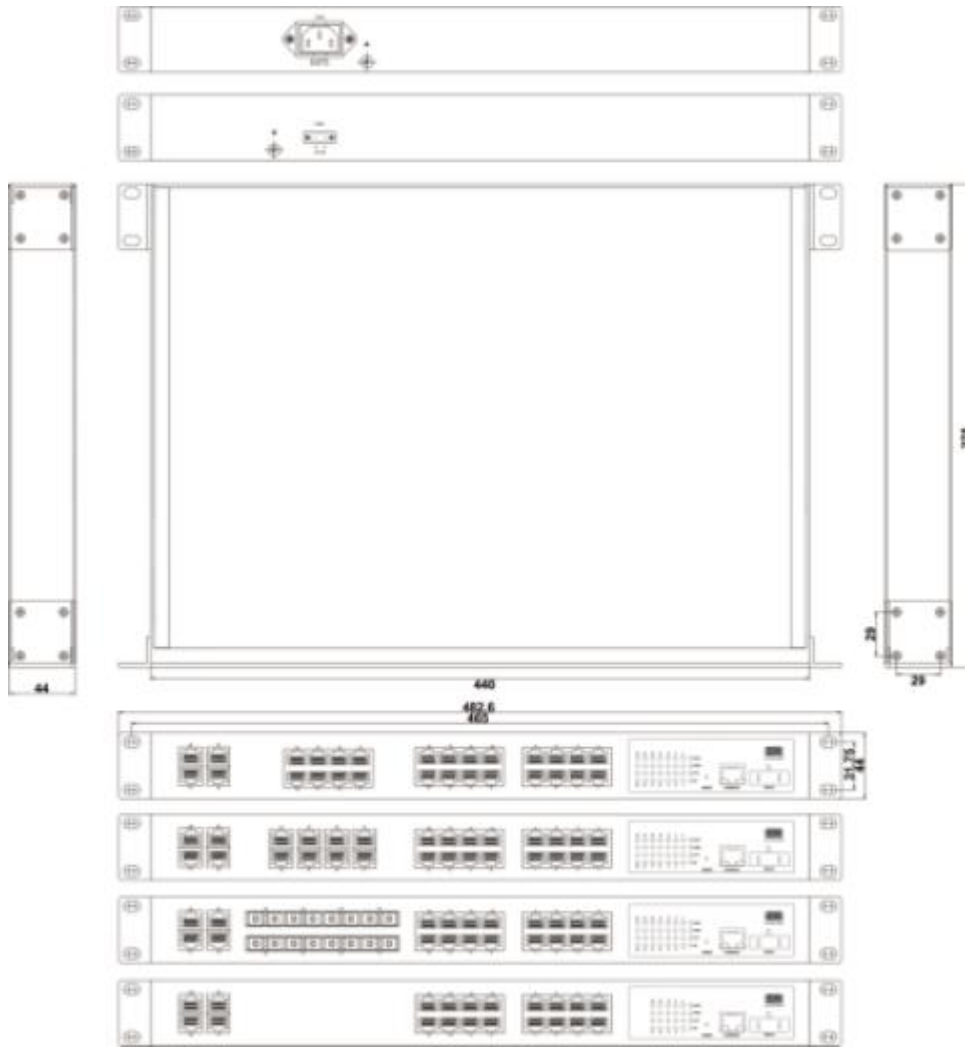
- Warranty: 5 years

Standard

- IEC61000-4-2(ESD): ±8KV Contact Discharge, ±15KV Air Discharge
- IEC61000-4-3(RS): 10V/M (80-1000MHZ)
- IEC61000-4-4(EFT): Power Cable ±4KV, Data Cable ±4KV
- 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)

- IEC61000-4-16(Common Mode Conduction) : 30V(cont.),300V(1s)
- IEC60068-2-6 (Vibration)
- IEC60068-2-27 (Shock)
- IEC60068-2-32 (Free fall)
- IEC61000-6-2(General Industrial Standards), IEC61850-3(Transformer Substation), IEEE1613(Power Substation)
- EN50121-4(Rail Transit)

Dimension(mm)



Product Models

Product Models	Specification & Descriptions
CRS7128P-8TX	Industrial Managed Switch, 24*10/100M self-adaptive Ethernet ports, 24 electric ports support the standard POE function, 4*1000M SFP interfaces (1000Base-X or 1000Base-T module optional),Single power supply,1U standard rack installation
CRS7128P-8FX	Industrial Managed Switch, 16*10/100M self-adaptive Ethernet ports, 16 electric ports support the standard POE function ,8*100BASE-FX optical interfaces (default SC interface, FC/ST optional), 4*1000M SFP interfaces (1000Base-X or 1000Base-T module optional), Single power supply,1U standard rack installation
CRS7128P-8SFP	Industrial Managed Switch, 16*10/100M self-adaptive Ethernet ports, 16 electric ports support the standard POE function ,8*100M SFP interfaces (100Base-X or 100Base-T module optional), 4*1000M SFP interfaces(1000Base-X or 1000Base-T module optional), Single power supply,1U standard rack installation
CRS7120P	Industrial Managed Switch, 16*10/100M self-adaptive Ethernet ports, 16 other ports support the standard POE function ,4*1000M SFP interfaces(1000Base-X or 1000Base-T module optional),Single power supply,1U standard rack installation

Package List

- 28/20-port 100M Managed POE Industrial Ethernet Switch 1pcs(with three-wire single-phase power cord or industrial power terminal and debugging serial port wire)
- Product Manual 1pcs