

CRS7228M-8GT4XG-L3

L3 10-GE Managed (DIN-Rail) Industrial Ethernet Switch



Features & Advantages

- Support STP/RSTP/MSTP and ERPS to eliminate Layer-loop and realize Link Backup.
- Support IEEE 802.1Q VLAN, Voice VLAN and QinQ, users can flexibly divide VLAN according to requirements.
- Support IGMP V1/V2 and IGMP Snooping, meet the access demand for multi-terminal HD video surveillance and video conferencing.
- Support port isolation, port broadcast storm suppression.
- Support diversified management and maintenance methods including Web, CLI(Console, Telnet) and SNMP(V1/V2/V3) Telnet.
- Support 802.1X, port binding, IP address binding, and MAC-address binding.
- Support encryption methods including HTTPS, SSLv3, SSHv1/v2, ensuring safer management.
- Support RMON, system logs, and port flow statistics, facilitating network optimization and renovation.
- Support LLDP, facilitating the query and diagnosis of link communication status by network management systems.
- Support CPU monitoring, memory monitoring, Ping detection, and cable length detection.
- Users can easily understand the working status of the device through PWR, SYS, Link, L/A.
- Supports IP routing and L3 port routing management.
- Supports L3 routing with ARP/RIP/OSPF/OSPFV3/BGP/Router Discovery/VRRP/ Route-Map/BFD.

Product Overview

This model is a L3 10-GE Managed (DIN-Rail) Industrial Ethernet Switch independently developed by our company, which it supports 8*10/100/1000Base-T self-adaptive RJ45 ports+4*10/1G SFP slots. Fully compliant with industrial product design and materials, the shell is made of aluminum alloy to enhance heat dissipation efficiency. With a fan-free heat dissipation circuit design, a wide range of operating ambient temperatures, and a high protection rating etc., it offers excellent industrial-grade qualities such as resistance to high/low temperatures and lightning protection.

The switch supports WEB management, VLAN, QoS, SNMP, IGMP snooping, and other networking functions. It also features Ethernet rapid ring protection with STP/RSTP/MSTP and ERPS. With industrial-grade three-level ESD protection, it is suitable for various applications, including intelligent transportation, outdoor monitoring, industrial networks, safe cities, and other demanding environments.

The products also adopt with fan-free, low power consumption, industrial design, working temperature range of -40~85°C, meeting the requirements of various industrial settings and providing a cost-effective solution. The equipment can be widely used in various broadband data transmission fields, such as intelligent buildings, smart cities, smart communities, intelligent transportation, telecommunications, security, financial securities, customs, shipping, electricity, water conservancy, and oilfields.

Technical Specification

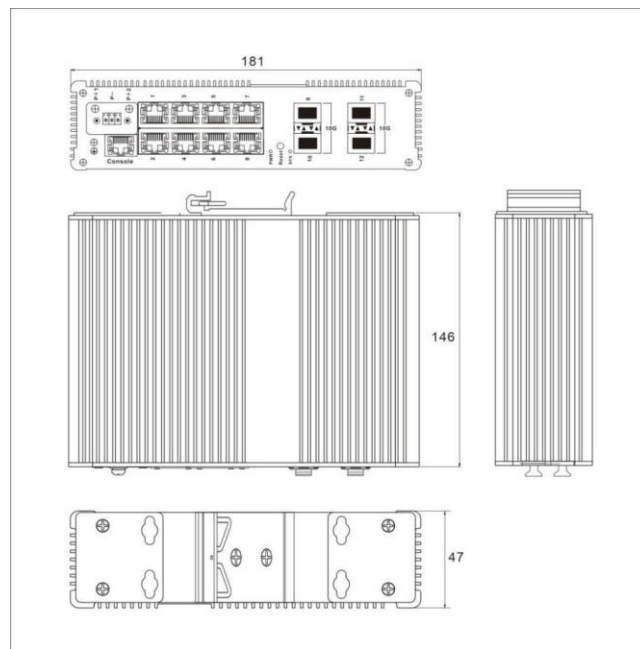
Business Interface	8*10/100/1000Base-T+4*10G/1G SFP
Management Interface	One Console RJ45 control port
Power Connector	3P Phoenix terminal, dual power supply redundancy
LED	Power indicator: PWR (green); System indicator: SYS(green); Network indicator yellow(1000 or PoE) green(Link)
Cable Type & Distance	Twisted Pair 0-100m (CAT5e,CAT6) Single-Mode Fiber 20/40/60/80/100KM Multi-Mode Fiber 550m/2KM Optical Interface LC/SC
Network Topology & Scale	Ring Topology Star Topology Bus Topology Tree Topology Hybrid Topology
Power Supply	Input Voltage DC10~55V (PoE/DC48~55V) Full load (Total power)<15W, PoE standard 120W
PoE (Optional)	PoE Ports 1-8 PoE Protocols 802.3af, 802.3at PoE Pin Assignment 1,2,3,6 PoE Management Mode
Switching Capacity	128G
Packet Forwarding Rate	71.42Mpps
VLAN	4K
MAC Address Table	16K
Packet Buffer	12M
Forward Delay	<10us
Port Feature	Crossover/Straight-Through self-adaption
Flow Control	Support
Jumbo Frame	12Kbytes
Spanning Tree Protocol	STP/RSTP/MSTP
Link Aggregation	16 Groups
Ring Network Protocol	ERPS
Multicast	IGMP Snooping
Port Mirroring	Support

Storm Control	Support
Port Traffic Statistics	Support
QinQ	Support
Operating Temperature	-40°C~+85°C
L3 Switching	RIP/OSPF/OSPFV3/BGP/VRRP /BFD
Storage/Transportation Temperature	-40°C~+85°C
Protection	IP40 IEC 61000-4-5 Level 3 (4KV/2KV) (8/20us) IEC 61000-4-5 Level 3 (6KV/2KV) (10/700us) IEC 61000-4-3 Level 3 (10V/m) IEC 61000-4-4 Level 3 (1V/2V) IEC 61000-4-6 Level 3 (10V/m) IEC 61000-4-8 Level4 (30A/m) IEC 61000-4-11 Level3 (10V) EMI CLASS A IEC 61000-4-2 Level 4 (15KV/30KV) 0.5m
ACL	500 ACL entries IP Standard ACL MAC Extended ACL IP Extended ACL
QoS	QoS remarking and priority mapping SP and WRR queue scheduling Ingress and egress rate limiting Flow-based QoS
Management Function	CLI Management Serial Port Telnet WEB SNMP(v1/v2c/V3) 802.1X User Management System Log File Upgrade Firmware Upgrade SFP Module DDM
Heat Dissipation Method	Fan-free Design for Natural Heat Dissipation
MTBF	100,000 hours
Size	181X146X47mm

Installation	DIN-Rail
Weight	1KG
Relative Humidity	5%~95% (non-condensing)
Shell Material	Industrial Aluminum Alloy
Accessories	Device, Terminal, Quality Certificate, Manual, Optional Power Adapter

Dimension

Unit: mm



Product Models

Product Models	Specification & Descriptions
CRS7228M-8GT4XG-L3	8*10/100/1000Base-T self-adaptive RJ45 ports (default SC interface, FC/ST optional, Single-mode/Multi mode optional) +4*1G/10G SFP slots. DIN-Rail installation. -40°C~+85°C
CRS7228M-8GT4GX-L3	8*10/100/1000Base-T self-adaptive RJ45 ports (default SC interface, FC/ST optional, Single-mode/Multi mode optional) +4*1G SFP slots. DIN-Rail installation. -40°C~+85°C