CIEN5210G-2GF-8GT

10-Port Layer 2 Gigabit Managed DIN-Rail Industrial Ethernet Switch



- Support 2×1G fiber ports, 8×1G copper ports
- MW-Ring (recovery time < 20 ms @ 200 switches), ERPS, STP/RSTP, MRP for network redundancy
- Support 802.1Q VLAN and LACP link aggregation
- 1×AC85~264V / DC110~370V AC/DC power input, or 2×DC9~60V power inputs for redundancy
- Aluminum alloy shell, IP40-rated housing protection
- -40°C to +75°C operating temperature range

Product Description

The CIEN5210G-2GF-8GT is a 10-port Layer 2 gigabit managed DIN-Rail industrial Ethernet switch that uses a store-and-forward mechanism. It has powerful bandwidth processing capabilities, automatically detects packet errors, reduces transmission failures, easily supports gigabit networking, and ensures stable, reliable, and efficient data transmission. It supports WEB management functions and multiple network protocols, which can improve network efficiency, reliability, and security and meet the needs of various complex networks. The fiber ports support multiple optical module options, utilizing fiber optic long-distance transmission with strong resistance to electromagnetic interference; the copper ports support 10/100/1000M, full/half-duplex, and auto MDI/MDI-X, providing high-bandwidth, low-latency, and highly reliable network communication for industrial automation applications.

It provides 2×Gigabit fiber ports (SFP ports) and 8×Gigabit copper ports, featuring a reliable industrial-grade design that supports an operating temperature range of -40°C to +75°C. It has passed rigorous functional, high/low temperature, safety, and electromagnetic interference tests, meeting the demands of diverse network environments and harsh industrial conditions. It is widely applicable in fields such as industrial automation, integrated energy systems, smart cities, intelligent transportation, and smart factories.

Features and Benefits

- Support 2×1G fiber ports, 8×1G copper ports
- Support MW-Ring, ERPS, STP/RSTP, MRP, and other ring network redundancy protocols to enhance network reliability
- Support 802.1Q VLAN segmentation to create multiple broadcast domains, enhancing security
- Support LACP port aggregation to increase bandwidth and link redundancy
- Support QoS (Quality of Service) for priority transmission to resolve network congestion
- Support IGMP Snooping and GMRP to reduce multicast data broadcasting
- Support LLDP, SNMP, and RMON for topology/network/remote management
- Support ACL, 802.1X, and TACACS+ for access control to enhance security
- Support port loopback, port mirroring, Ping, DDM, and link diagnostics
- Support high-level EMS protection ensures stable operation in complex electromagnetic environments, unaffected by external electromagnetic interference

Specifications

Protocol Standards	
IEEE Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x, IEEE 802.1w, IEEE 802.1p, IEEE 802.1X, IEEE 802.1Q, IEEE 802.3ad, IEEE 802.1AB
Switch Capability	
Processing Type	Store-and-Forward
Backplane Bandwidth	20Gbps
Buffer Size	4.1Mbit
Jumbo frame	10kByte

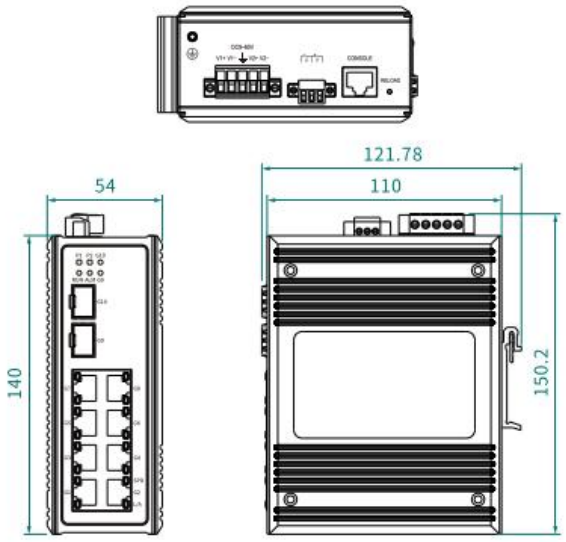
MAC Table Size	8K
Interface	
1G Fiber Port	2×1000Base-X Gigabit SFP ports, compatible with 100Base-FX
1G Copper Port	8×10/100/1000Base-T(X) auto-sensing Gigabit RJ45 copper ports, full/half duplex, auto MDI/MDI-X
Relay	1×relay alarm output, using 3-pin 3.81mm pitch locking terminal blocks
Console	1×Console port, RS232 signal RJ45 port, for device debugging
Button	Factory reset
Status LED	Power indicator, operation indicator, alarm indicator, optical port indicator, copper port speed and connection/activity indicator
Power Supply	
Power Input	DC model: DC9~60V, supports dual power supply redundancy, non-polarity AC model: AC85~264V / DC110~370V
Power Consumption	DC model: ≤7.8W@DC24V (full load) AC model: ≤7.9W@AC220V (full load)
Connection	5.08mm pitch locking terminal blocks
Physical Characteristics	
Dimensions	140×54×110mm (excluding DIN rail & connectors)
Installations	Easy installation on 35mm DIN rails
Enclosure Protection	Aluminum alloy housing, IP40 protection rating

Weight	About 0.64kg (DC), About 0.73kg (AC)
Working Environment	
Operating Temp	-40℃~+75℃
Storage Temp	-40℃~+85℃
Relative Humidity	5%~95% (non-condensing)
Industry Standard	
EMS	IEC 61000-4-2 (ESD): Level 3 (Contact discharge ±8kV, Air discharge ±8kV) IEC 61000-4-5 (Surge): Level 4 (Power supply: Common mode ±4kV, Differential mode ±2kV; Ethernet port: Common mode ±6kV, Differential mode ±2kV) IEC 61000-4-4 (EFT): Level 4 (Power supply: ±4kV; Ethernet port: ±2kV)

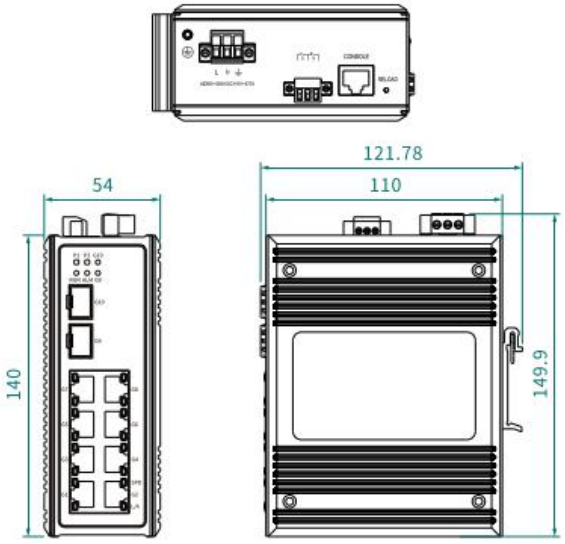
Dimensions

Unit: mm

CIEN5210G-2GF-8GT



CIEN5210G-2GF-8GT-AD220



Ordering Information

Standard Model	1G Fiber Port	1G Copper Port	Input Voltage
CIEN5210G-2GF-8GT	2	8	DC9~60V redundant inputs
CIEN5210G-2GF-8GT-AD220	2	8	AC 85~264 V / DC 110~370 V

Contact Us

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