CIEN5206C-2F-2D485

6-Port Layer 2 100M Managed DIN-Rail Industrial Ethernet Switch with 2 Serial Data Ports

- 2×100M fiber ports, 4×100M copper ports, 2×isolated RS485 serial ports
- Support serial port to network conversion, capable of converting UDP, TCP, Modbus, HTTPD, WebSocket, MQTT, and other protocols, with support for virtual serial ports
- MW-Ring (recovery time < 20 ms @ 200 switches), ERPS, STP/RSTP for network redundancy
- AC85~264V / DC110~370V power input, or DC9~60V redundant power inputs
- Aluminum alloy shell, IP40-rated housing protection
- -40°C to +75°C operating temperature range

Product Description

The CIEN5206C-2F-2D485 is a 6-port Layer 2 100M managed DIN-rail industrial Ethernet switch with 2 integrated RS485 serial ports, designed to provide seamless Ethernet and serial device networking in demanding environments. It adopts a store-and-forward switching mechanism and features strong bandwidth handling capability with automatic packet error detection, reducing transmission faults for stable, reliable, and efficient data communication. The switch supports web-based management and multiple network protocols, enhancing network efficiency, reliability, and security in complex deployments. Its fiber ports support a variety of optical modules for long-distance transmission with strong resistance to electromagnetic interference, while copper ports support 10/100M, full/half-duplex, and auto MDI/MDI-X, ensuring high bandwidth, low latency, and robust performance for industrial automation systems.

Offering 2 × 100M fiber ports (1×9 optical modules), 4 × 100M copper ports, and 2 × isolated RS485 serial ports, the CIEN5206C-2F-2D485 is built to withstand harsh industrial conditions. Its rugged design supports an operating temperature range of -40°C to +75°C and has passed rigorous testing for functionality, temperature extremes, safety, and EMC immunity. This high-reliability design makes it an ideal solution for industrial automation, energy systems, smart cities, intelligent transportation, and smart factories where secure and efficient communication is critical.

Features and Benefits

- Support serial port to network conversion, capable of converting UDP, TCP, Modbus, HTTPD, WebSocket, MQTT, and other protocols, with support for virtual serial ports
- Support MW-Ring, ERPS, STP/RSTP ring redundancy protocols for improved reliability
- Support IEEE 802.1Q VLAN for multiple broadcast domains and enhanced security
- Support QoS for prioritized traffic and congestion resolution
- Support broadcast storm suppression
- Support static multicast MAC address binding to reduce multicast broadcast
- Support MW-NMP proprietary network management protocol
- Support port mirroring and Ping for troubleshooting
- Support alarm notifications for power failure, port disconnection, and ring status changes
- Support high-level EMS protection for stable operation in harsh electromagnetic environments

Specifications

Protocol Standards	
IEEE Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.1w, IEEE 802.1p, IEEE 802.1Q
Switch Capability	
Processing Type	Store-and-Forward
Backplane Bandwidth	1.8Gbps
Buffer Size	768kbit
Jumbo frame	2kByte
MAC Table Size	2K
Interface	

100M Fiber Port	2×100Base-FX, SC/FC/ST connecters Transmission options: 1310nm MM dual-fiber 2km, 1310nm SM dual-fiber 20km (single/dual-fiber, 40/60/80/100km optional)
100M Copper Port	4×10/100Base-T(X) auto-sensing RJ45 ports, full/half-duplex, auto MDI/MDI-X
Serial Port	Port type: 2×isolated RS485 Connector: 6-pin 3.81mm terminal block with lock Baud rate: 600bps–460800bps Selectable 120Ω terminal resistor by DIP switch Isolation voltage: 1.5kVDC
Relay	1×relay alarm output, 3-pin 3.81mm terminal block with lock
Console	1×Console port, RS232 signal RJ45 port, for device debugging
Button	One-click reboot or factory reset
Status LED	Power indicator, operation indicator, alarm indicator, fiber port indicator, copper port speed and connection/activity indicator, serial port send and receive indicator
Power Supply	
Power Input	DC model: DC9~60V, redundant power inputs with reverse polarity protection AC model: AC85~264V / DC110~370V
Power Consumption	DC model: ≤3W@DC24V (full load) AC model: ≤3W@AC220V (full load)
Connection	DC model: 5-pin 5.08mm terminal block with lock AC model: 3-pin 5.08mm terminal block with lock
Physical Characteristics	
Dimensions	140×54×110mm (excluding DIN rail clip & connectors)
Installations	Easy installation on 35mm DIN rails

Enclosure Protection	Aluminum alloy housing, IP40-rated protection
Weight	About 0.65kg (DC model), about 0.73kg (AC model)
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 4 (Contact discharge ±8kV, Air discharge ±15kV) IEC 61000-4-5 (Surge): Level 3 (Power supply: Common mode ±2kV, 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

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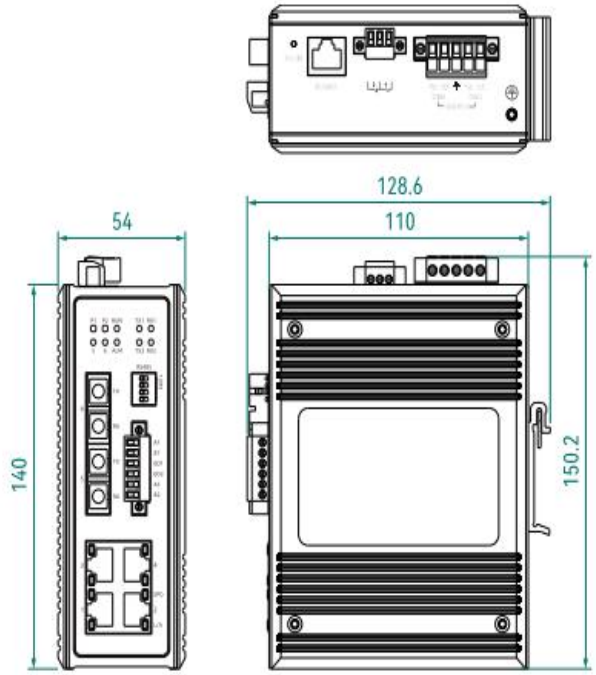
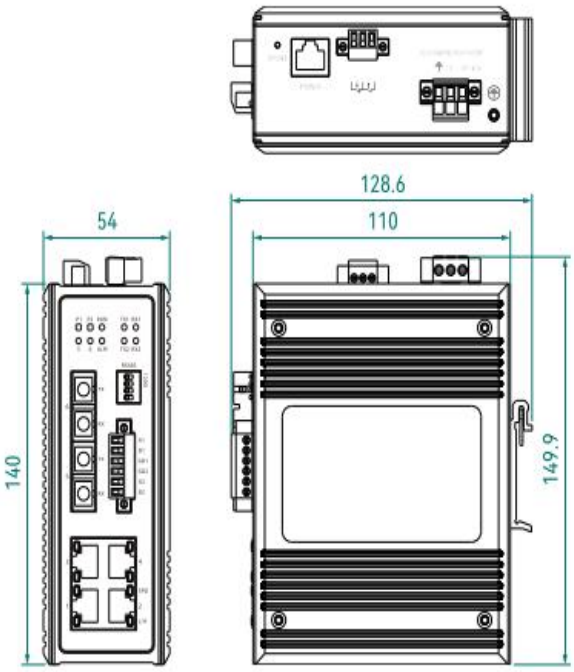


CIEN5206C-2F-2D485-AD220



Ordering Information

Standard Model	100M Fiber Port	100M Copper Port	RS485	Input Voltage
CIEN5206C-2F(M/S)-2D485	2	4	2	DC9~60V redundant power inputs
CIEN5206C-2F(M/S)-2D485-AD220	2	4	2	AC 85~264 V / DC 110~370 V

Contact Us

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