CIEN2024-4F/8F/12/16F Series

24-Port Unmanaged Rack Mount Industrial Fast Ethernet Switch



- 4/8/12/16×100Base-FX ports, 20/16/12/8 × 10/100Base-T(X) RJ45 ports
- Copper ports support 10/100 Mbps, full/half duplex, and auto MDI/MDI-X with plug-and-play operation
- Flow control of the port to avoid network congestion
- The Max. frame length of jumbo frame transmission: 10,000bytes
- Relay output and status LED warning for power failure
- Single/dual AC85~264V or DC110~370V power input; or DC18V~72V power input
- High-strength metal casing, IP40-rated housing protection, fanless design
- -40°C to +75°C operating temperature range

Product Description

The CIEN2024 fiber switch series is a 24-port Layer 2 100M unmanaged industrial Ethernet switch designed for rack-mount deployment and effortless plug-and-play operation. This series includes models such as CIEN2024-/4F/8F/12F/16F, offering flexible port configurations with 4, 8, 12, or 16 × 100Base-FX fiber ports and 20, 16, 12, or 8 × 10/100Base-T(X) RJ45 ports. Each copper port supports auto-negotiation for 10/100Mbps, full-duplex or half-duplex modes, and automatic MDI/MDI-X switching, ensuring seamless integration and optimized performance. Built for industrial automation, the CIEN2024 series provides smooth, reliable, and high-speed communication to meet the growing demand for innovation and value-added connectivity solutions.

Engineered with industrial-grade components, the CIEN2024 series features a robust 19-inch 1U rack-mount metal housing, fanless heat dissipation, and a wide operating temperature range of -40°C to +75°C, ensuring durability and stability in harsh environments. Each unit undergoes rigorous testing for functionality, extreme temperatures, safety, and electromagnetic immunity, guaranteeing dependable performance in demanding

applications. With its high-standard industrial protection and superior reliability, this series is widely deployed in industrial automation, energy systems, smart cities, intelligent transportation, and smart factory environments.

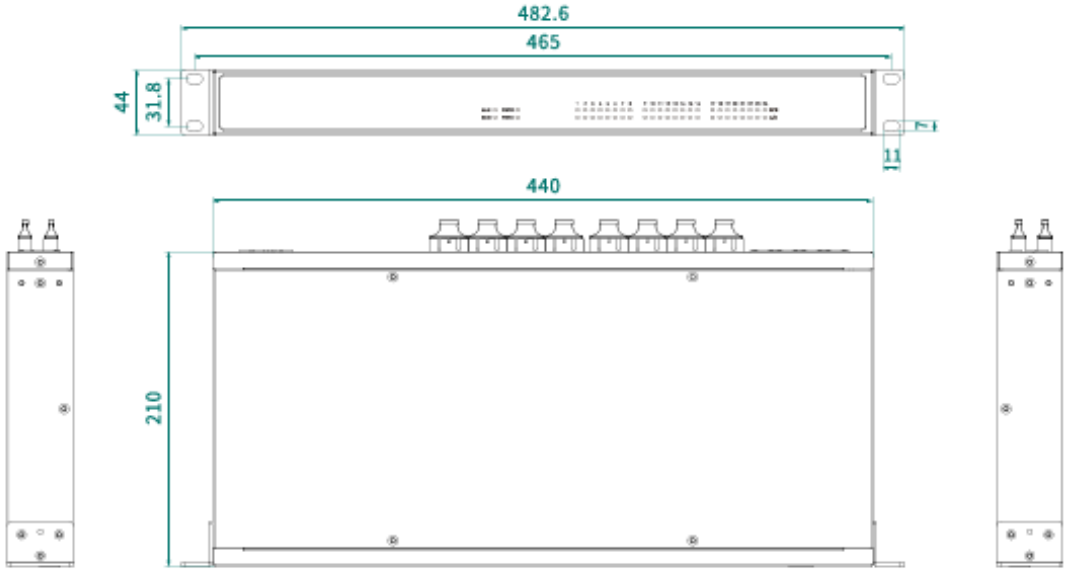
Technical Specifications

Protocol Standard	
IEEE Standard	IEEE 802.3, IEEE 802.3u, IEEE 802.3x
Switching Capability	
Processing Type	Store-and-Forward
Backplane Bandwidth	12.8Gbps
Buffer Size	4.1Mbit
MAC Table Size	8K
Interface	
Fiber Port	4/8/12/16 100Base-FX ×100Base-FX fiber ports, SC/FC/ST connector Transmission distance: 1310nm multi-mode dual-fiber (2km) or 1310nm single-mode dual-fiber (20/40/60/80/100km options)
Copper Port	20/16/12/8×10/100Base-T(X) auto-sensing RJ45 ports auto-sensing 100Mbps RJ45 copper ports, supporting full/half duplex and auto MDI/MDI-X
Relay	1×relay alarm output, 5.08mm pitch 3-pins terminal block
Status LEDs	Power status LED, operation status LED, alarm status LED, interface speed and connection/activity status LED
Power Supply	
Input Voltage	AC Model: AC85V~264V or DC110V~370V, built-in overcurrent protection, single/dual power input options available DC Model: DC18V~72V, reverse polarity protection, single/dual power input options available

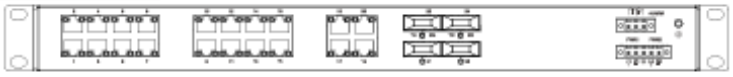
Power Consumption	≤10.3W@AC220V (4F); ≤12.1W@AC220V (8F); ≤14.5W@AC220V (12F); ≤16.4W@AC220V (16F);
Connection	5.08mm pitch 5-pin terminal block
Physical Characteristics	
Dimensions	482.6×44×210 mm (mounting brackets included, connectors excluded)
Installations	19inch 1U Rack mount
IP Code	IP40; Metal Casing
Weight	2.9kg
Working Environment	
Operating Temp	-40°C to +75°C
Storage Temp	-40°C to +85°C
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 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)
Certification	CE, FCC, RoHS

Dimensions

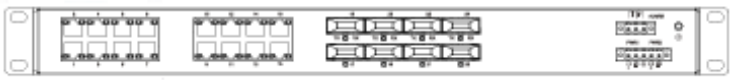
Unit: mm



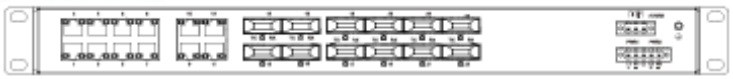
CIEN2024-4F



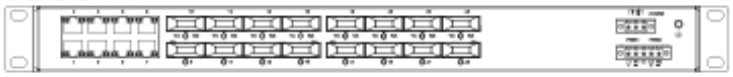
CIEN2024-8F



CIEN2024-12F



CIEN2024-16F



Ordering Information

Standard Model	100M Fiber Port	10/100M Copper	Input Voltage
CIEN2024-4F(M/S)-AD220	4	20	Single/dual AC85V~264V/DC110V~370V power input
CIEN2024-8F(M/S)-AD220	8	16	
CIEN2024-12F(M/S)-AD220	12	12	
CIEN2024-16F(M/S)-AD220	16	8	
CIEN2024-4F(M/S)-DC24	4	20	Single/dual DC18V~75V power input
CIEN2024-8F(M/S)-DC24	8	16	
CIEN2024-12F(M/S)-DC24	12	12	
CIEN2024-16F(M/S)-DC24	16	8	

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