CIEN2212P-12TPoE-DC48

12-Port Layer 2 100M PoE Din Rail Industrial Ethernet Switch



- 12×100M PoE copper ports
- Copper ports support 10/100M, full/half-duplex, auto MDI/MDI-X, plug-and-play
- PoE compliant with IEEE802.3af/at standards, up to 30W output per port & total budget 240W
- Jumbo frame transmission with a maximum frame length of 2KB
- High-grade EMS protection
- Dual DC 48-57V power inputs with redundant power supply and reverse polarity protection
- Aluminum alloy shell, IP40-rated housing protection
- -40°C to +75°C operating temperature range

Product Description

The CIEN2212P-12TPoE-DC48 is a 12-port Layer 2 100M PoE unmanaged DIN-rail industrial Ethernet switch designed for plug-and-play simplicity. It provides PoE power output with a total PoE power of 240W. The PoE ports support 10/100Mbps, full/half-duplex, and MDI/MDI-X auto-negotiation. They deliver PoE power output compliant with IEEE 802.3af/at standards, supplying power to standard PD devices via Ethernet cables without affecting normal data transmission. This design reduces power cabling costs while delivering high-bandwidth, low-latency, and highly reliable network communication for industrial automation applications.

CIEN2212P-12TPoE-DC48 features 12×100M PoE ports with reliable industrial-grade design, operating within -40°C to +75°C environments. Passes rigorous functional, temperature, safety, and electromagnetic immunity testing to meet diverse network field and harsh industrial environment demands. Widely applicable in industrial automation, integrated energy systems, smart cities, intelligent transportation, and smart factories.

Features and Benefits

- 12 x 100M PoE copper ports;
- Copper ports support 10/100Mbps, full/half-duplex, MDI/MDI-X auto-negotiation for plug-and-play convenience
- PoE compliant with IEEE 802.3af/at standards, with 30W max per-port PoE output and 240W total PoE output;
- Jumbo frame transmission with maximum frame length of 2KB;
- Half-duplex backpressure or full-duplex IEEE 802.3x flow control on Ethernet ports;
- Relay alarm upon system power loss;
- High-grade EMS protection ensures stable operation in complex electromagnetic environments, immune to external interference;
- Dual DC 48-57V power inputs with redundant power supply and reverse polarity protection;
- Aluminum alloy housing for efficient heat dissipation, IP40 protection rating;
- Operating temperature range: -40°C to +75°C.

Specifications

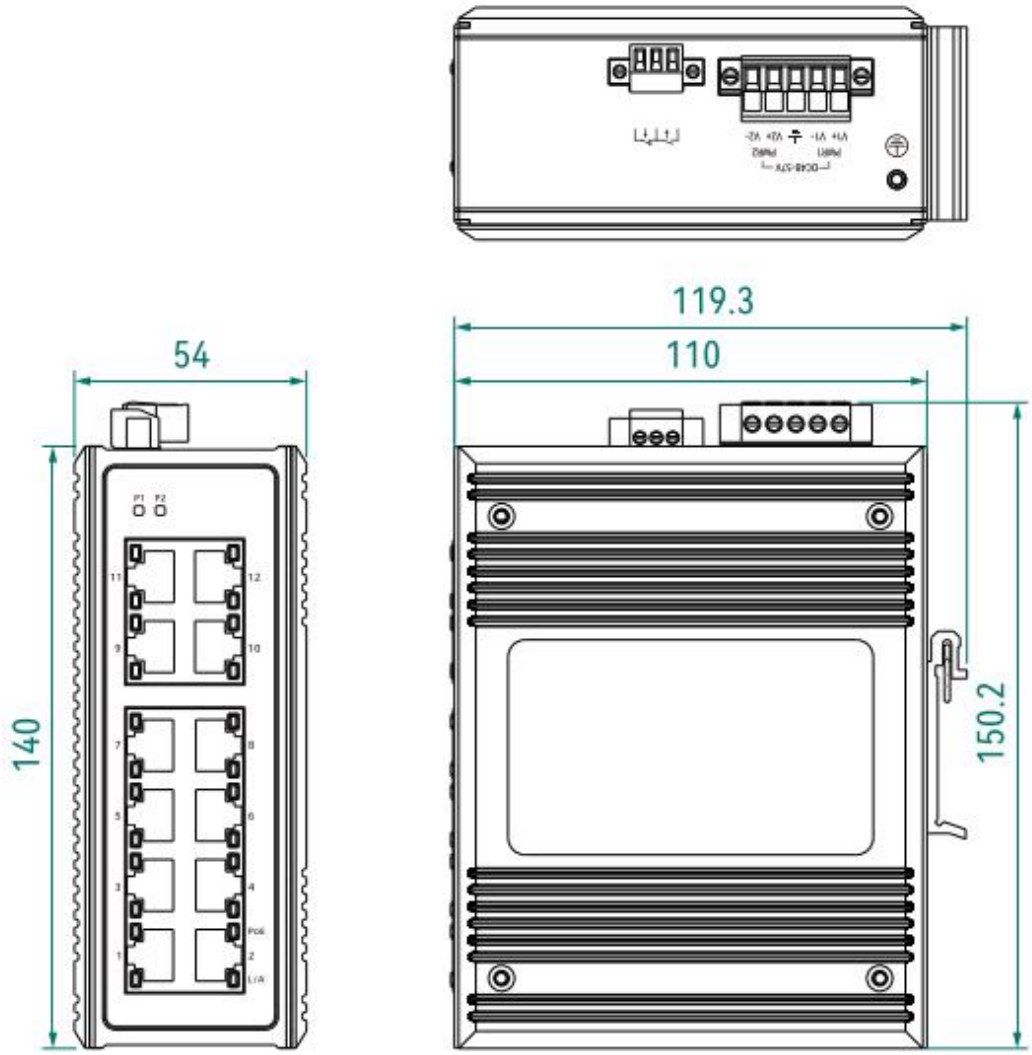
Protocol Standards	
IEEE Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3af/at
Switch Capability	
Processing Type	Store-and-Forward
Backplane Bandwidth	3.2Gbps
Buffer Size	768Kbit
Jumbo frame	2KB
MAC Table Size	8K
Interface	

100M PoE Port	12 x 10/100Base-T(X) auto-sensing PoE RJ45 ports, full/half-duplex, auto MDI/MDI-X; PoE power supply compliant with IEEE802.3af/at standards, maximum per-port PoE output power 30W; PoE power supply pins: 1, 2 positive, 3, 6 negative
Relay	1×relay alarm output, 3-pin 3.81mm terminal block with lock
Status LED	Power indicator, PoE indicator, Ethernet port connection/activity indicator
Power Supply	
Power Input	DC 48-57V, supports dual power redundancy and reverse polarity protection (When a single PoE port requires a 30W load, power input must reach DC 52V or higher)
Power Consumption	≤1.6W @ DC 48V (excluding PoE), total PoE maximum output power 240W
Connection	5-pin 5.08mm terminal block with lock
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 0.66kg
Working Environment	
Operating Temp	-40°C ~+75°C
Storage Temp	-40°C ~+85°C
Relative Humidity	5%~95% (non-condensing)

Industry Standard	
EMS	IEC 61000-4-2 (ESD): Level 3 (Contact discharge ±6kV, Air discharge ±8kV) IEC 61000-4-5 (Surge): Level 3 (Power supply: Common mode ±2kV, Differential mode ±1kV; Ethernet port: Common mode ±2kV, Differential mode ±2kV) IEC 61000-4-4 (EFT): Level 3 (Power supply: ±2kV; Ethernet port: ±2kV)
Warranty	
Warranty Period	5 years

Dimensions

Unit: mm



Ordering Information

Standard Model	100M PoE Copper Port	Input Voltage
CIEN2212P-12TPoE-DC48	12	Dual DC48~57V

Contact Us

COME-STAR COMMUNICATION(WUHAN) CO., LTD.

Address: Puneng Industrial Park, Fenghuang Garden 1st Road, East Lake High-Tech Development Zone, Wuhan, China.

Tel: +86-027-59257958

Mail: sales@come-star.com

Official site: www.come-star.com

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