CIEN311GP

1×Gigabit Fiber Port + 1×Gigabit Port PoE DIN-Rail Industrial Ethernet Media Converter

- 1×Gigabit fiber port + 1×Gigabit PoE port; fiber port available as SFP slot or 1×9 optical module

- Optical module supports single-mode/multi-mode, single-fiber/dual-fiber, with transmission distances; resistant to electromagnetic interference; maximum range up to 80 km

- Support 10/100/1000M, full/half-duplex, and MDI/MDI-X auto-sensing, plug and play

- PoE compliant with IEEE802.3af/at standards, with a maximum PoE output power of 30W per port

- ESD, surge, and EFT protection to ensure stable operation in complex EMI environments

- Aluminum alloy housing, efficient heat dissipation, IP40 protection rating

- Dual DC48~57V power inputs with redundancy and reverse polarity protection

- Operate in -40°C to +75°C

Product Description

The CIEN311GP series is a Gigabit PoE DIN-rail industrial Ethernet media converter. It supports both Ethernet conversion and PoE power supply, providing both power and long-distance data transmission to terminal devices. The fiber port supports various optical modules and uses fiber transmission with strong resistance to electromagnetic interference, supporting distances of up to 80 km. The Ethernet port supports PoE power output compliant with the IEEE 802.3af/at standards, enabling power delivery to standard PD (Powered Device) equipment via Ethernet cables without affecting data transmission. This significantly reduces power wiring costs and delivers high-bandwidth, low-latency, and highly reliable network communication for industrial automation applications.

The product offers 1*Gigabit fiber port (SFP or 1×9 module can be used) and 1*Gigabit PoE copper port, with plug-and-play functionality. Built with reliable industrial-grade design, it operates in extreme environments from -40℃ to +75℃, and has passed rigorous functional, temperature, safety, and EMI tests. It is widely used in industrial automation, integrated energy systems, smart cities, intelligent transportation, and smart factories.
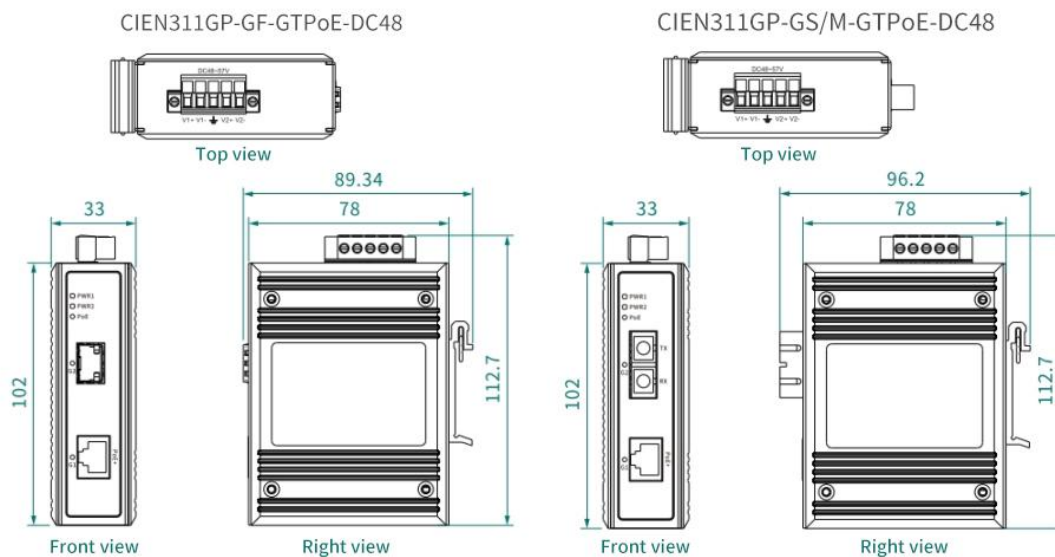
Specifications

Protocol Standards	
IEEE Standards	IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3af, IEEE802.3at
Switch Capability	
Processing Type	Store-and-Forward
Backplane Bandwidth	2 Gbps
Buffer Size	1 Mbit
Jumbo Frame Support	9216 Byte
MAC Address Table	2K
Interface	
1G Fiber Port	1 × 1000Base-X Gigabit SFP port or 1×9 optical module, compatible with 100Base-FX. SFP is recommended to use the module specified by our company;1× 9 optical module supports SC/ST/FC interface, transmission distance multi-mode dual-fiber 550m or single-mode dual-fiber 20km optional (single fiber/dual fiber, 40/60/80km)
1G PoE Copper Port	1×10/100/1000Base-T (X) auto-sensing 1G PoE RJ45 port, supports full/half duplex, MDI/MDI-X auto-sensing; PoE power supply complies with IEEE802.3af/at standards, single-port maximum output power 30W, power supply pins: 1, 2 are positive, 3, 6 are negative
Status LED	Power indicator, PoE indicator, Interface indicator
Power Supply	
Power Input	DC48~57V, supports dual power redundancy, anti-reverse connection (When single-port PoE is used for IEEE802.3at, the power input needs to reach DC53~57V)

Power Consumption	≤1.9W@DC48V (GF), ≤1.7W@DC48V (GS/M) (excluding PoE part) Maximum PoE output power of the whole machine 30W
Connection	5-pin 5.08mm pitch terminal block with locking mechanism

Physical Characteristics	
Dimensions	102×33×78 mm (DIN rail mounting clip and connectors excluded)
Installations	Easy installation on 35mm DIN rails
IP Code	Aluminum alloy, IP40 protection
Weigh	Approximately 0.28kg

Working Environment	
Operating Temp	-40℃~+75℃
Storage Temp	-40℃~+85℃
Relative Humidity	5%~95% (non-condensing)

Industry Standard	
EMC	IEC 61000-4-2 (ESD): Level 3 (Contact discharge ±6kV, Air discharge ±15kV) IEC 61000-4-5 (Surge): Level 2 (Power supply: Common mode ±1kV,Differential mode ±0.5kV;Ethernet port: Common mode ±2kV, Differential mode ±1kV) IEC 61000-4-4 (EFT): Level 4 (Power supply: ±4kV; Ethernet port: ±2kV)

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Dimensions

Unit: mm

CIEN311GP-GF-GTPoE-DC48

Top view

Front view | Right view

89.34
78
112.7
33
102

CIEN311GP-GS/M-GTPoE-DC48

Top view

Front view | Right view

96.2
78
112.7
33
102

Ordering Information

Standard Model	1G Fiber Port(SFP)	1G Fiber Port(1×9)	1G PoE Copper Port	Input Voltage
CIEN311GP-GF-GTPoE-DC48	1	/	1	Dual DC48~57V
CIEN311GP-GS/M-GTPoE-DC48	/	1	1	

Contact Us

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