

CIEN311G

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



- 1×Gigabit fiber port (SFP or 1×9 module optional) + 1 × Gigabit Ethernet port, plug and play
- Comprehensive protection: ESD, surge, EFT, ensuring stable operation in complex EMI environments
- Support single-mode/multi-mode, single-fiber/dual-fiber fiber optic module, with transmission distances up to 80 km
- Support 10/100/1000M, full/half-duplex, MDI/MDI-X auto-sensing
- Support Jumbo frames up to 9216 bytes
- Aluminum alloy housing, efficient heat dissipation, IP40 protection rating
- Dual DC9~60V power input, with redundancy and reverse polarity protection
- Operate in -40°C to +75°C
- Compact DIN-rail design for easy industrial deployment

Product Description

The CIEN311G series is a Gigabit DIN-rail industrial Ethernet media converter that supports fiber to copper Ethernet conversion and enables long-distance data transmission. The fiber port supports various optional modules and uses fiber transmission for strong electromagnetic interference resistance, with a maximum distance of up to 80 km. The Ethernet port supports 10/100/1000M, full/half-duplex, MDI/MDI-X auto-sensing, and plug-and-play capability, delivering high-bandwidth, low-latency, and highly reliable network communication for industrial automation applications.

This product provides 1×Gigabit fiber port (SFP or 1×9 module can be used) and 1×Gigabit copper port with plug-and-play operation. It features a robust industrial-grade design that operates reliably in environments ranging from -40°C to +75°C. It has passed rigorous functionality, high/low temperature, safety, and electromagnetic immunity tests, making it suitable for various network environments and harsh industrial conditions. It is widely applicable in industrial automation, integrated energy, smart cities, intelligent transportation, smart factories, and other fields.

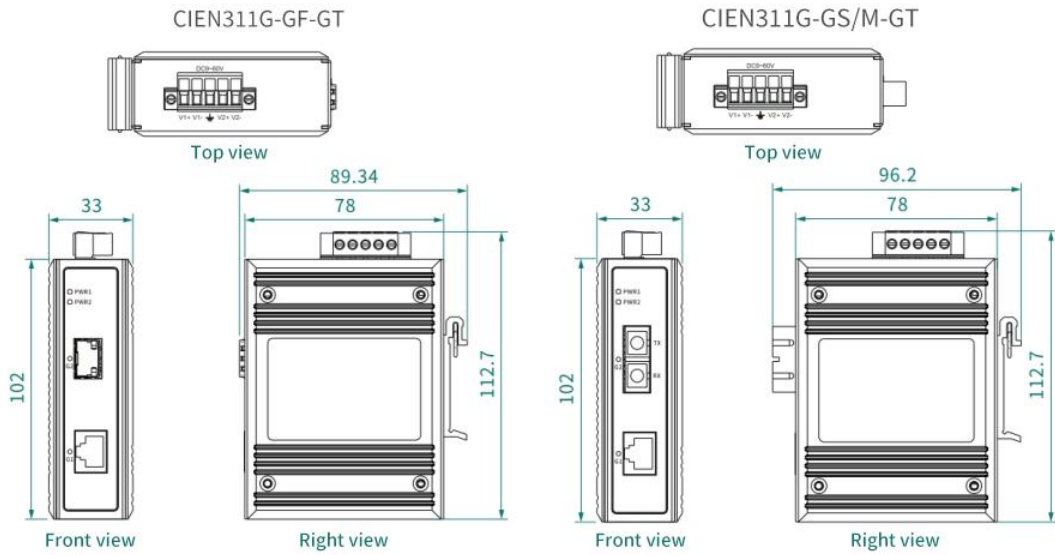
Specifications

Protocol Standards	
IEEE Standards	IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z
Switch Capability	
Processing Type	Store-and-Forward
Backplane Bandwidth	2 Gbps
Buffer Size	1 Mbit
Jumbo Frame Support	9216 Bytes
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 (single fiber/dual fiber, 40/60/80km)
1G Copper Port	1×10/100/1000Base-T(X), RJ45, auto-negotiation, full/half-duplex, MDI/MDI-X auto-sensing
Status LED	Power indicator, Interface indicator
Power Supply	
Power Input	DC9~60V, dual redundant inputs
Power Consumption	≤1.4W@DC24V

Connection	5-pin 5.08mm pitch terminal block with locking mechanism
Physical Characteristics	
Dimensions	102×33×78 mm (excluding rail and connectors)
Installations	35mm standard DIN rail
IP Code	Aluminum alloy, IP40 protection
Weigh	Approximately 0.27kg
Working Environment	
Operating Temp	-40℃~+75℃
Storage Temp	-40℃~+85℃
Relative Humidity	5%~95% (non-condensing)
Industry Standard	
EMC	<p>IEC 61000-4-2 (ESD): Level 3 (Contact discharge ±6kV, Air discharge ±15kV)</p> <p>IEC 61000-4-5 (Surge): Level 2 (Power supply: Common mode ±1kV, Differential mode ±2kV; Ethernet port: Common mode ±2kV, Differential mode ±1kV)</p> <p>IEC 61000-4-4 (EFT): Level 4 (Power supply: ±4kV; Ethernet port: ±2kV)</p>

Dimensions

Unit: mm



Ordering Information

Standard Model	1G Fiber Port(SFP)	1G Fiber Port(1×9)	1G Copper Port	Input Voltage
CIEN311G-GF-GT	1	/	1	Dual DC9~60V
CIEN311G-GS/M-GT	/	1	1	



Contact Us

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