

CIEN3206GP-2GF-4GTBT

6-Port Layer 2 Gigabit PoE++ DIN Rail Industrial Ethernet Switch



- 2×10/100/1000M fiber ports + 4 ×10/100/1000M PoE copper ports, copper ports support full/half-duplex, auto MDI/MDI-X, and plug-and-play
- The optical modules support single-mode/multi-mode, single-fiber/dual-fiber, with transmission distances, up to 80 km.
- Strong EMC performance, operate in complex electromagnetic environments
- Up to 90W output per port, with a total budget of 240W
- Jumbo frame transmission, with a maximum frame length of 9kByte
- IEEE802.3af/at/bt, PoE++ standards
- DC48~57V redundant power inputs, and reverse polarity protection
- Aluminum alloy housing, efficient heat dissipation, and IP40 protection rating
- -40 to 75°C operating temperature range
- PoE port priority: lower port numbers have higher priority

Product Description

The CIEN3206GP-2GF-4GTBT is a 6-port Layer 2 Gigabit unmanaged PoE++ industrial Ethernet switch designed for plug-and-play deployment in harsh environments. It features 2 Gigabit fiber ports with SFP ports and 4 Gigabit PoE copper ports, supporting IEEE 802.3af/at/bt standards for high-power PoE output. This allows the switch to deliver power and data over a single Ethernet cable to standard PD devices, helping reduce power wiring costs while maintaining reliable and efficient communication. The SFP fiber ports support various modules and long-distance transmission up to 80 km, ensuring strong anti-interference performance and high availability.

Each copper port supports 10/100/1000 Mbps, full/half duplex, and auto MDI/MDI-X, while PoE priority ensures lower-numbered ports receive power first during power allocation. Engineered with rugged industrial-grade components, the switch offers wide temperature tolerance from -40°C to +75°C and fanless efficient heat dissipation. It has passed strict reliability, EMC, and environmental testing, making it ideal for applications in industrial automation, smart cities, integrated energy, intelligent transportation, smart factories, and mining environments.

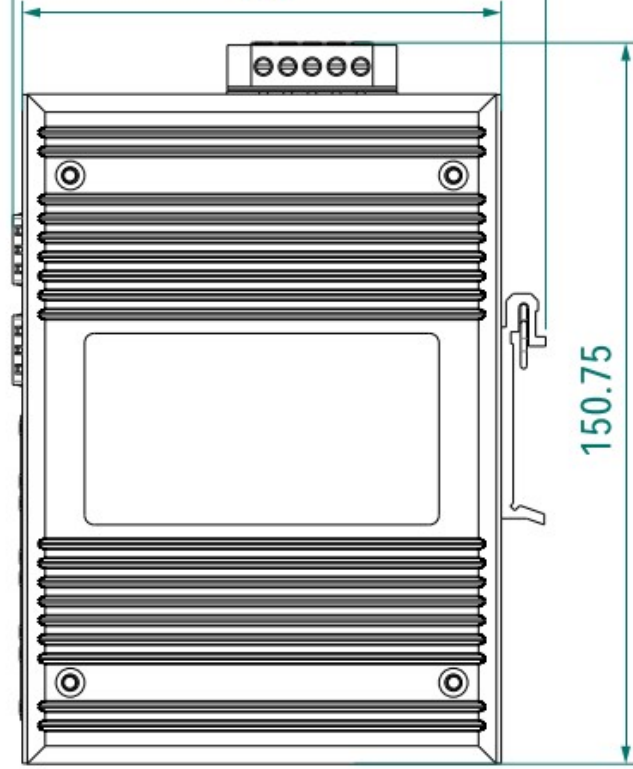
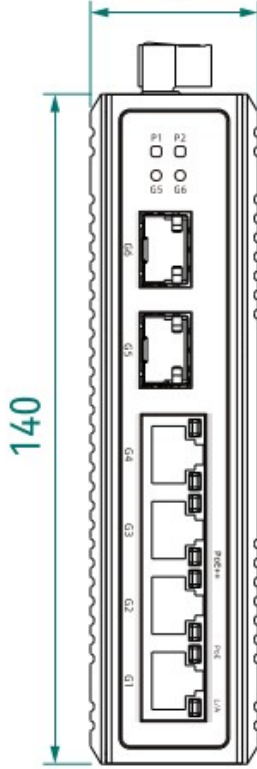
Specifications

Protocol Standards	
IEEE Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3af/at/bt
Switch Capability	
Switching Method	Store-and-Forward
Backplane Bandwidth	14 Gbps
Buffer Size	2Mbit
Jumbo Frame	9 kBytes
MAC Address Table	2k
Interface	
Gigabit Fiber Port	2×1000 Base-X gigabit fiber ports with SFP ports, compatible with 100Base-FX.
Gigabit Copper Port	4×10/100/1000 Base-T(X) auto-sensing RJ45 PoE copper ports, full/half duplex and auto MDI/MDI-X PoE power supply complies with IEEE 802.3af/at/bt standards, with a maximum output power of 90W per port; PoE power supply pins: 3, 6, 4, and 5 are positive; 1, 2, 7, and 8 are negative.
Status LED	Power indicator, fiber port indicator, PoE indicator, copper port connection/activity indicator
Power Supply	
Power Input	DC48~57V, dual power inputs for redundancy, reverse polarity connection (When the load of a single PoE port exceeds 60W, the power input voltage is required to be DC 54 to 57 V.)
Power Consumption (Full Load)	≤3.9W@DC48V (No PoE device) The maximum PoE output power consumption of the whole machine is 240W
Connection	5.08mm pitch 5-pin terminal block
Physical Characteristics	
Dimensions	140×35×100 mm (DIN rail mounting clip excluded)

Installations	35mm standard DIN-rail mounting
IP Code	IP40
Weigh	About 0.46kg
Working Environment	
Operating Temp	-40°C~+75°C
Storage Temp	-40°C~+85°C
Relative Humidity	5%~95% (non-condensing)
Industry Standard	
EMC	<p>IEC 61000-4-2 (ESD): Level 4 (Contact discharge $\pm 8\text{kV}$, Air discharge $\pm 15\text{kV}$)</p> <p>IEC 61000-4-5 (Surge): Level 3 (Power supply: Common mode $\pm 2\text{kV}$, Differential mode $\pm 2\text{kV}$; Ethernet port: Common mode $\pm 2\text{kV}$, Differential mode $\pm 2\text{kV}$)</p> <p>IEC 61000-4-4 (EFT): Level 4 (Power supply: $\pm 4\text{kV}$; Ethernet port: $\pm 2\text{kV}$)</p>

Dimensions

Unit: mm



Ordering Information

Standard Model	Gigabit Fiber Port	Gigabit PoE Copper Port	Input Voltage
CIEN3206GP-2GF-4GTBT	2	4	Dual DC48V~57V power inputs



Contact Us

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