

CIEN3220G-4GF-16GT

20-Port Layer 2 Gigabit Din-Rail Industrial Ethernet Switch



- 4×1G fiber ports and 16×1G copper ports
- Support single-mode/multi-mode optical modules, single-fiber/dual-fiber, and selectable transmission distances, maximum transmission distance of up to 80 km
- Support 10/100/1000M copper ports, full/half-duplex, auto MDI/MDI-X, and plug-and-play
- Support Jumbo frame transmission with a maximum frame size of 10,000 bytes
- Support high-level EMS protection
- Support 1×AC85~264V / DC110~370V or 2×DC12~60V redundant power inputs
- -40°C~+75°C operating temperature range, aluminum alloy shell, IP40 rated housing protection

Product Description

The CIEN3220G-4GF-16GT series is a 20-port Layer 2 unmanaged Din-rail industrial gigabit switch, primarily designed for simple plug-and-play applications. The fiber ports support various SFP optical modules, enabling fiber-based long-distance transmission with strong resistance to electromagnetic interference. The copper ports support 10/100/1000M, full/half-duplex, and auto MDI/MDI-X, providing high-bandwidth, low-latency, and highly reliable network communication for industrial automation applications.

CIEN3220G-4GF-16GT features 4×1G fiber ports (SFP ports) and 16× 1G copper ports, designed with reliable industrial-grade construction to withstand operating temperatures from -40°C to +75°C. It has been tested rigorously for functionality, high/low temperature, safety standards, and electromagnetic interference resistance, meeting the demands of various network environments and harsh industrial conditions. It is widely applicable in industrial automation, integrated energy systems, smart cities, intelligent transportation, and smart factories.

Features and Benefits

- Support 4×Gigabit fiber ports + 16×Gigabit copper ports
- Optical modules support single-mode/multi-mode, single-fiber/dual-fiber, and selectable transmission distances, with strong resistance to electromagnetic interference, and a maximum transmission distance of up to 80 km
- Copper ports support 10/100/1000 Mbps, full/half-duplex, MDI/MDIX auto-negotiation, plug-and-play functionality, and convenient, quick setup
- Support Jumbo frame transmission with a maximum frame length of 10,000 bytes
- Support system power failure with relay alarm
- Support high-level EMS protection ensures normal and stable operation in complex electromagnetic environments, unaffected by external electromagnetic interference
- Support 1×AC85~264V / DC110~370V AC/DC power input, or 2×DC12~60V power inputs optional, with dual power supply redundancy
- Aluminum alloy housing, efficient heat dissipation, IP40 protection rating
- Operating temperature range: -40°C to +75°C

Specifications

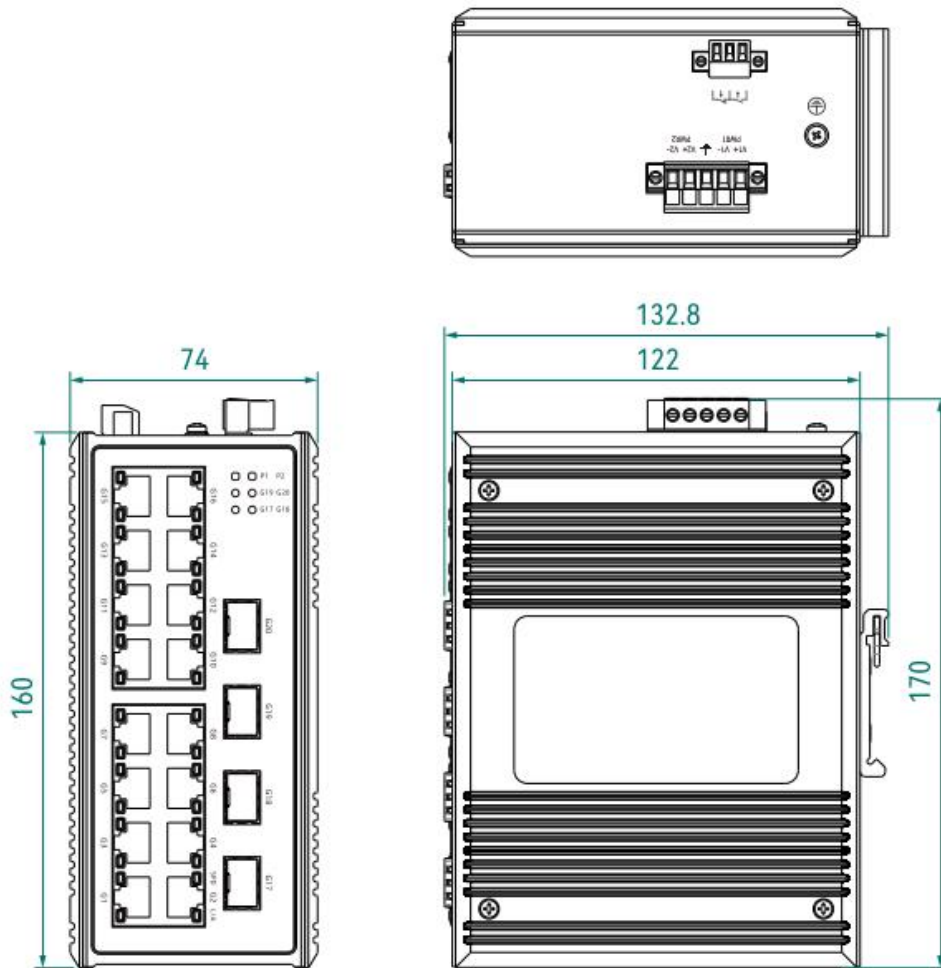
Protocol Standards	
IEEE Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z
Switch Capability	
Processing Type	Store-and-Forward
Backplane Bandwidth	56Gbps
Buffer Size	4.1Mbit
Jumbo frame	10000Byte
MAC Table Size	8K

Interface	
1G Fiber Port	4×1000Base-X Gigabit SFP ports, not compatible with 100Base-FX, can be customized to 4×100M fiber ports
1G Copper Port	16×10/100/1000Base-T(X) auto-sensing Gigabit RJ45 copper port, full/half-duplex, auto MDI/MDI-X
Relay	1×relay alarm output, 3-pin 3.81mm terminal block with lock
Status LED	Power indicator, fiber port indicator, ncopper port speed and connection/activity indicator
Power Supply	
Power Input	DC model: DC12~60V, supports dual power supply redundancy, non-polarity AC model: AC85~264V/ DC110~370V
Power Consumption	≤15W@DC24V (full load), 14.9W@AC220V (full load)
Connection	5-pin 5.08mm terminal block with lock
Physical Characteristics	
Dimensions	160×72×122mm (excluding DIN rail & connectors)
Installations	Easy installation on 35mm DIN rails
Enclosure Protection	Aluminum alloy housing, IP40 protection rating
Weight	About 1.1kg
Working Environment	
Operating Temp	-40°C ~+75°C

Storage Temp	-40°C~+85°C
Relative Humidity	5%~95% (non-condensing)
Industry Standard	
EMS	<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 $\pm 2\text{kV}$;</p> <p>Ethernet port: Common mode $\pm 6\text{kV}$, Differential mode $\pm 2\text{kV}$)</p> <p>IEC 61000-4-4 (EFT): Level 3 (Power supply: $\pm 2\text{kV}$; Ethernet port: $\pm 2\text{kV}$)</p>

Dimensions

Unit: mm



Ordering Information

Standard Model	1G Fiber Port	1G Copper Port	Input Voltage
CIEN3220G-4GF-16GT	4	16	Dual DC12~60V
CIEN3220G-4GF-16GT-AD220	4	16	Single AC 85~264 V / DC 110~370 V



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