

CSF201-F-KG

1-Port RS232/485/422 to Fiber Converter



- 1×RS232/485/422 serial port to 1×fiber port
- Support mutual conversion among RS232/485/422 serial ports, with a maximum transmission distance of up to 100 km
- Support transparent transmission with auto-sensing baud rates from 300bps to 115200bps
- Built-in intelligent module automatically detects RS485 signal direction
- Support one master and multiple slave communication modes, with up to 128 nodes on RS485
- Supports DC 9~60V input or AC 85~264V / DC 110~370V AC/DC power input
- High-strength aluminum alloy housing with IP40 protection rating
- -40°C~+85°C operating temperature range

Product Description

The CSF201-F-KG fiber converter is specifically designed for industrial applications, enabling long-distance transmission of 1 channel of RS232/485/422 serial ports via fiber optics. This product features RS485/422 support for multi-device communication and convenient networking. Additionally, utilizing fiber optic cables as the transmission medium provides advantages such as high isolation voltage, electromagnetic interference resistance, and lightning protection. To facilitate remote data communication between computers, external devices, or intelligent instruments equipped with different serial interface standards, conversion between these interfaces is essential. The CSF201-F-KG fiber converter incorporates zero-delay automatic transmission conversion internally, with a unique I/O circuit that automatically controls data flow direction without requiring any handshake signals (such as RTS, DTR, etc.). This ensures compatibility with existing operating software and interface hardware, resolving the conflict between long communication distances, high communication speeds, and numerous dispersed nodes. It also addresses challenges like electromagnetic interference, ground loop interference, and lightning damage, significantly enhancing the reliability, security, and confidentiality of data communication.

The CSF201-F-KG supports a wide range of DC or AC power inputs. For structural installation, the CSF201-F-KG employs DIN rail mounting. Core components utilize industrial-grade quality design, supporting transmission rates from 300bps to 115200bps. This enables point-to-point or point-to-multipoint remote multi-machine communication networks between master controllers, or between master controllers and microcontrollers/peripherals, facilitating multi-machine response communication. Widely applied in industrial automation control systems, integrated access cards, access control systems, parking systems, self-service banking systems, bus fare collection systems, cafeteria meal sales systems, corporate employee attendance management systems, highway toll station systems, and more, this product is indispensable for industrial communication.

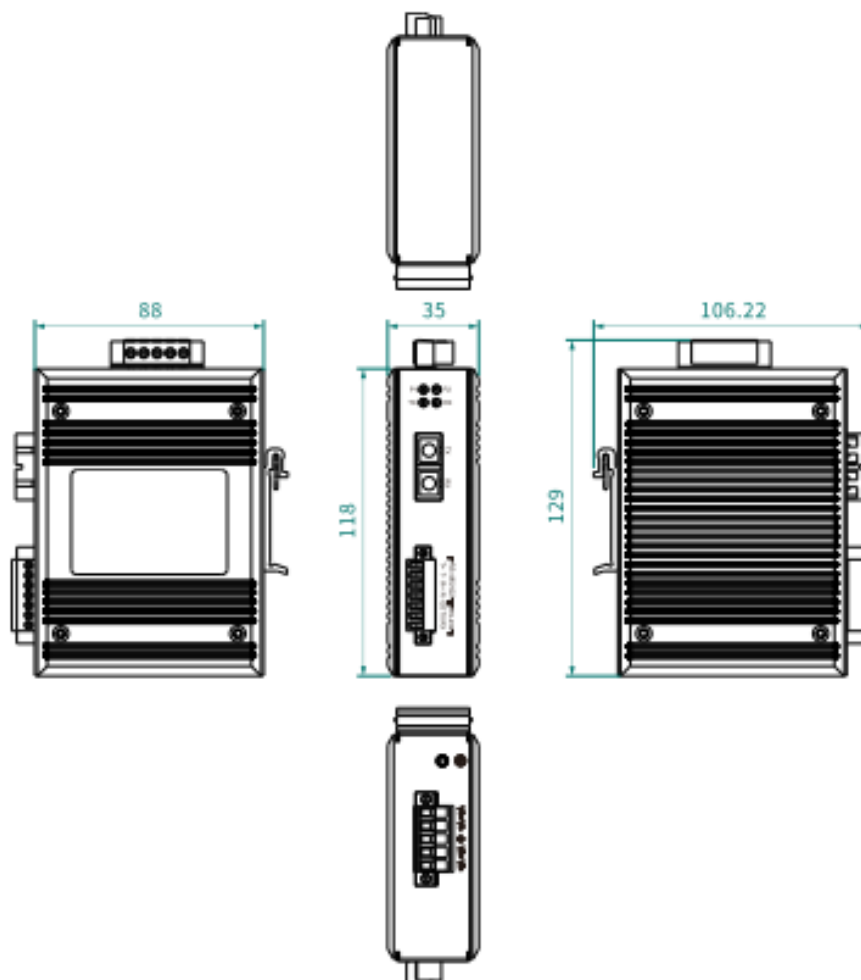
Technical Specifications

Interface	
Serial Port	Standard: EIA RS232, RS485, RS422 Interface Type: 1×RS232 or RS485/422 serial port Connection Method: 7-pin 3.81mm pitch locking terminal block RS232 Signals: TX, RX, GND RS485/422 Signals: T+(A+), T-(B-), R+, R-, GND Baud Rate: 300bps to 115200bps Number of nodes: Up to 128 nodes via RS485 Direction control: Automatic RS485 flow direction detection
Fiber Port	Interface type: 1×fiber port, ST/SC/FC connectors optional Transmission Distance: Multimode dual-fiber 1310nm 2km or single-mode dual-fiber 1310nm 20km (40/60/80/100km optional) Transmission Wavelength: Multimode 850nm/1310nm or Single-mode 1310nm/1550nm optional Fiber Type: Multimode fiber 62.5/125μm or 50/125μm, Single-mode fiber 9/125μm Optical Power & Sensitivity: ≥-8dBm, ≤-20dBm (refer to specific optical module models) Bit error rate: ≤10⁻⁹
Status LED	Power indicator, Fiber port transmit indicator (serial port receive), Fiber port receive indicator (serial port transmit)
Power Supply	
Input Voltage	DC Models: DC 9~60V, supports dual power redundancy, reverse polarity protection AC Model: AC85~264V / DC110~370V
Power Consumption	<0.2W@DC24V, <0.2W@AC220V (Full load)
Connection	5-position 5.08mm pitch locking terminal block
Physical Characteristics	
Dimensions	118×35×88 mm (DIN rail mounting clip and connector excluded)

Installations	Easy installation on 35mm DIN rails
IP Code	High-strength aluminum alloy housing, IP40 protection rating
Weight	About 0.35kg
Working Environment	
Operating Temp	-40°C~+85°C
Storage Temp	-40°C~+85°C
Relative Humidity	5%~95% (non-condensing)
Industry Standard	
EMC	IEC 61000-4-2 (ESD): Level 4 (contact discharge $\pm 8\text{kV}$, air discharge $\pm 15\text{kV}$) IEC 61000-4-5 (Surge): Level 3 (Power supply: Common mode $\pm 2\text{kV}$, Differential mode $\pm 2\text{kV}$; RS485/422: Common mode $\pm 2\text{kV}$, Differential mode $\pm 2\text{kV}$) IEC 61000-4-4 (EFT): Level 4 (Power supply: $\pm 4\text{kV}$, RS485/422: $\pm 2\text{kV}$)

Dimensions

Unit: mm



Ordering Information

Standard Model	RS232/485/422	Fiber Port	Input Voltage
CSF201-F(M/S)-KG	1	1	Dual DC9~60V
CSF201-F(M/S)-KG-AD220	1	1	AC85~264V or DC110~370V



Contact Us

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