

CSF201-F-G

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
- Support DC 5~30V power input
- -20°C~+75°C operating temperature range

Product Description

The CSF201-F-G series fiber converter is specifically designed for industrial environments to enable long-distance transmission of 1×RS232/485/422 serial port 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 immunity, and lightning strike resistance. 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-G series fiber optic converter incorporates zero-delay automatic transmission/reception 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.

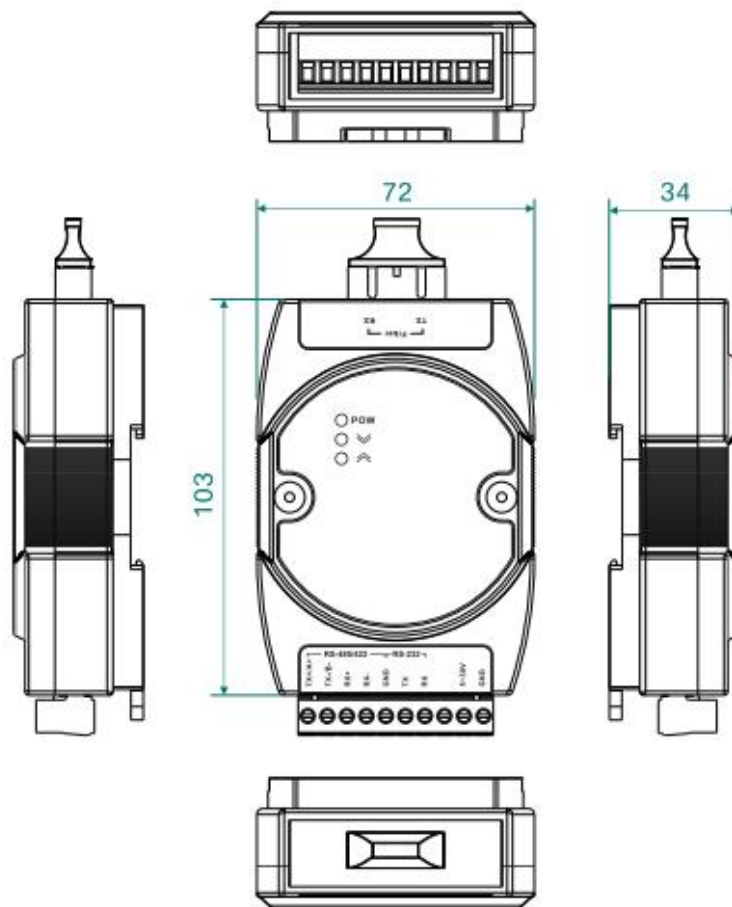
The fiber converter supports a wide range of DC power inputs. For structural installation, the CSF201-F-G employs DIN-rail mounting. Core components feature industrial-grade quality design, supporting transmission rates from 300bps to 115200bps. This enables point-to-point or point-to-multipoint remote 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: 1x RS232 or RS485/422 serial port Connection Method: 10-pin terminal block with 5.08mm pitch, serial port occupies 7 pins RS232 Signals: TX, RX, GND RS485/422 Signals: TX+/A+, TX-/B-, RX+, RX-, 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 optic port, ST/SC/FC connectors optional Transmission distance: Multimode 2km, single-mode 20km (40/60/80/100km optional) Transmission wavelength: Multimode 850nm/1310nm or single-mode 1310nm/1550nm (selectable) 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, Operation indicator, Fiber port transmit indicator (serial port receive), Fiber port receive indicator (serial port transmit)
Power Supply	
Input Voltage	DC 5~30V
Power Consumption	<0.3W @ DC 12V (Full load)
Connection	2-position 5.08mm pitch terminal block or Φ2.5mm DC barrel connector
Physical Characteristics	
Dimensions	103×72×34 mm (DIN rail mounting clip excluded)

Installations	Easy installation on 35mm DIN rails
IP Code	IP40
Weight	About 0.15kg
Working Environment	
Operating Temp	-20°C~+75°C
Storage Temp	-40°C~+85°C
Relative Humidity	5%~95% (non-condensing)

Dimensions



Ordering Information

Standard Model	RS232/485/422	Fiber Port	Input Voltage
CSF201-F(M/S)-G	1	1	DC5~30V



Contact Us

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