

CS-CANFiber500

2-CANBus to Fiber Din Rail CAN Server



- 1 x 100M fiber port and 2 x CAN ports
- Fiber port support SC/FC/ST, single-mode or multimode, multiple wavelengths, and transmission distances
- Support UDP, TCP Client, TCP Server, and UDP multicast modes for CAN to UDP/TCP conversion
- External independent hardware watchdog design to prevent system crashes
- Support AC85–264V/DC110–370V or DC9–60V wide-range power input
- High-strength metal casing with IP40 protection
- -40°C to +85°C operating temperature range

Product Description

CS-CANFiber500 is a DIN-rail CAN server that converts CAN-bus to Ethernet over fiber optics. It enables CAN-to-fiber and CAN-to-Ethernet conversion, extends CAN bus transmission distance, and facilitates centralized network management. This product features 1 x 100M fiber port and 2 x CAN ports, supporting optional power input configurations including AC 85~264V / DC 110~370V or DC 9~60V. Constructed with premium components and adhering to stringent system design and manufacturing standards, it features a 35mm DIN rail mount, robust metal housing, and fanless thermal management. Operating within a wide temperature range of -40°C to +85°C, its industrial-grade protection ensures reliable performance in harsh environments.

The CS-CANFiber500 supports web-based configuration for multiple network management functions, including CAN/network operating modes, CAN statistics, network addresses, network diagnostics, user passwords, system information, and system administration. It supports various conversion modes such as UDP, TCP Client, TCP Server, and UDP multicast, enabling CAN-to-Ethernet protocol conversion to connect CAN bus networks to Ethernet networks. The product undergoes rigorous functional, temperature, safety, and EMC testing to meet complex network and harsh industrial environment requirements. It is widely applicable in automotive, industrial automation, IoT, and energy management sectors for remote monitoring/control, data acquisition, and integration.

Product Features

- Support a 32-bit ARM Cortex-M7 core operating at up to 400MHz;
- Support normal mode, loopback mode, or monitor mode for CAN bus testing and troubleshooting;
- Support selectable baud rates from 5kbps to 1000kbps, with customizable or adaptive baud rate options;
- Support filtering of standard CAN frame IDs and extended frame IDs;
- Support UDP and UDP Multicast modes, enabling efficient point-to-point, point-to-multipoint, or multipoint-to-multipoint communication via UDP protocol;
- Support TCP Client/Server mode, establishing session connections via TCP protocol with support for up to 4 concurrent sessions;
- Support multiple packet segmentation mechanisms, converting CAN data into Ethernet packets based on data length or time to meet varying network real-time requirements;
- Support user management with different permission levels.

Technical Specifications

Software	
CAN Operation Mode	Support UDP, TCP Client, TCP Server, UDP multicast modes Support normal mode, loopback mode, and listen-only mode Support packet/frame count, packet/frame intervals Support CAN ID filtering
System Management	Support CAN data statistics, static IP configuration, Ping functionality, and user password management Support online reboot, factory reset, system upgrades, and configuration file upload/download
Switching	
Backplane Bandwidth	1.2Gbps
Buffer Size	768kbit
MAC Table Size	2k
Interface	
100M Fiber Port	1 x 100Base-FX 100Mbps fiber port, with SC/FC/ST connectors optional. Transmission distance supports either 2km over 1310nm multimode dual fibers or 20km over 1310nm single-mode dual fibers (40/60/80/100km).

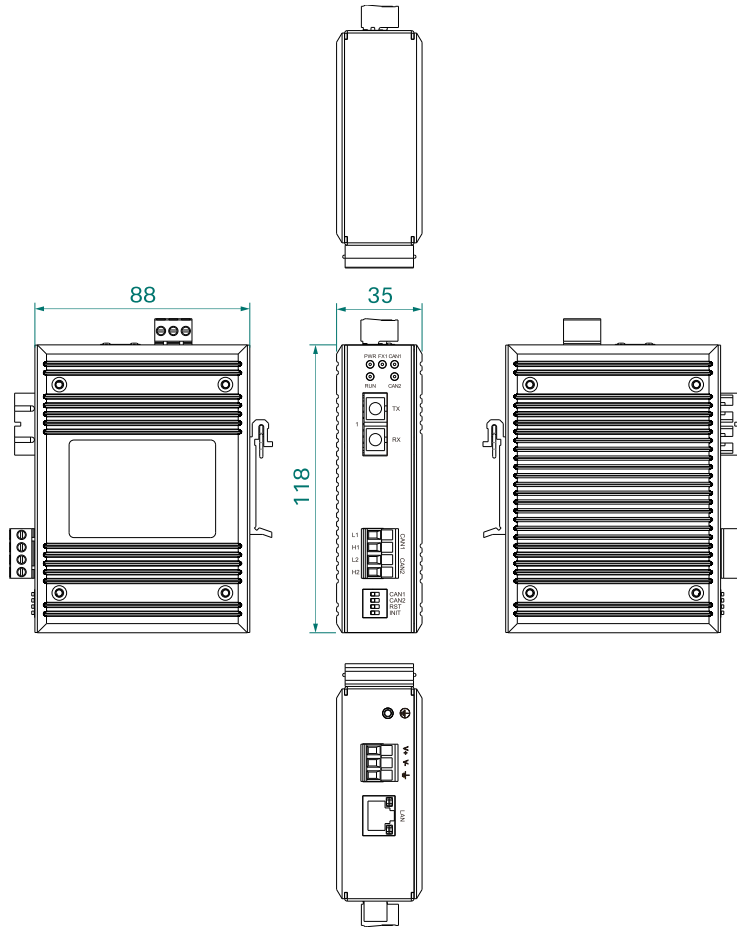
CAN	<p>Standard: Compliant with CAN 2.0A and CAN 2.0B protocols</p> <p>Number of Interfaces: 2 x CAN</p> <p>Connection method: 4-pin terminal block with 5.08mm pitch</p> <p>Baud rate: 5kbps to 1000kbps</p> <p>Termination Resistor: Built-in 120Ω termination resistor, adjustable via dip switches</p> <p>Isolation Protection: 3kVDC</p>
Ethernet management port	1 x 10/100Base-T(X) auto sensing RJ45 Ethernet port, support MDI/MDI-X connection (for device management only)
DIP Switch	CAN termination resistor, reboot, factory reset
Status LED	Power indicator, operational indicator, fiber port indicator, CAN indicator
Power Supply	
Input Voltage	<p>DC Model: DC9~60V, non-polar</p> <p>AC Model: AC85~264V (Frequency: 47~63Hz) or DC110~370V</p>
Power Consumption	<2.2W@DC24V(full load), <2.7W@AC220V(full load)
Connection	3-pin 5.08mm pitch terminal block
Physical Characteristics	
Dimensions	118×35×88 mm (DIN rail mounting clip excluded)
Installations	35mm standard DIN rail
IP Code	IP40
Weight	0.4kg
Working Environment	
Operating Temp	-40°C to +85°C
Storage Temp	-40°C to +85°C
Relative Humidity	5%~95% (non-condensing)
Industry Standard	
EMC	<p>IEC 61000-4-2 (ESD): Level 3</p> <p>IEC 61000-4-5 (Surge): Level 3</p> <p>IEC 61000-4-4 (EFT): Level 3</p>

Certification

CE, FCC, RoHS

Dimensions

Unit: mm



Ordering Information

Standard Model	100M Fiber Port	CAN	Input Voltage
CS-CANFiber500-F(M/S)	1	2	DC9~60V
CS-CANFiber500-F(M/S)-AD220	1	2	AC85~264V/DC110~370V



Contact Us

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