

## MW-CANFiber600

### 2-CANBus to Fiber Ring Network Din Rail CAN Server



- 2× 100Base-FX fiber ports, 2× CAN ports
- Fiber ports support SC/FC/ST connectors, single-mode/multi-mode, wavelengths, and transmission distances are optional
- Support UDP, TCP Client, TCP Server, UDP multicast modes, enabling CAN to UDP/TCP conversion and allowing CAN terminal devices to connect to the network
- Offer fast ring network redundancy (MW-Ring) with a response time of less than 20ms, enhancing the reliability of system communication
- External independent hardware watchdog design to prevent system crashes
- Support AC85~264V/DC110~370V power input, or optional DC9~60V DC power input
- High-strength metal casing with IP40 protection rating, fanless design for heat dissipation, the operating temperature from -40° C to +85° C





## Product Description

The MW-CANFiber600 is a CAN-bus to Ethernet fiber optic ring network CAN server, capable of CAN-to-optic and CAN-to-Ethernet conversions. It supports fiber optic ring network redundancy, extending CAN bus transmission distance and improving network reliability. This product offers two 100Mbps optical ports and two CAN interfaces, supporting AC85~264V / DC110~370V AC or DC9~60V DC power input options. It utilizes high-quality components, incorporates advanced system design and production control, features a 35mm standard DIN rail mounting, a high-strength metal casing for durability, fanless heat dissipation, a wide operating temperature range of -40°C to +85°C, and a high-standard industrial protection design, enabling it to withstand various harsh working environments and providing stable communication performance.

The MW-CANFiber600 supports various network management functions configured via web, such as fast ring network, CAN/network operating mode, CAN statistics, network address, network diagnostics, user password, system information, and system management. It supports multiple conversion modes including UDP, TCP Client, TCP Server, and UDP multicast to achieve CAN-to-Ethernet protocol conversion, connecting the CAN bus network to an Ethernet network. The product has undergone rigorous functional, high/low temperature, safety, and EMC testing to meet the demands of complex network and harsh industrial environments. It can be widely used in the automotive industry, industrial automation, IoT applications, energy management, and other fields to achieve remote monitoring and control, data acquisition, and integration.



## Features and Benefits

- Utilize a 32-bit ARM Cortex-M7 core with a high operating frequency of up to 400MHz
- Support normal mode, loopback mode, or listen-only mode, suitable for CAN bus testing and troubleshooting
- Support baud rates ranging from 5kbps to 1000kbps, with options for custom or adaptive baud rates
- Provide filtering for both CAN standard frame IDs and extended frame IDs
- Support CS-Ring V2 for fast ring network redundancy, preventing network storms and enhancing network reliability
- Support UDP and UDP Multicast modes, enabling point-to-point, point-to-multipoint, or multipoint-to-multipoint communication via the UDP protocol, offering speed and efficiency
- Support TCP Client/Server modes, establishing session connections using the TCP protocol, with support for up to 4 simultaneous connections
- Offer various packetization mechanisms, converting CAN data into Ethernet data packets based on data length or time, meeting different real-time network requirements
- Support user management with different levels of permissions


**Technical Specifications**  

**Specification**

Software	
CAN Working Mode	Support UDP, TCP Client, TCP Server, UDP multicast modes Support normal mode, loopback mode, listen-only mode Support packet/frame count, packet/frame intervals Support CAN ID filtering
Redundancy	Support MW-Ring V2 proprietary ring network protocol
System Management	Supports CAN data statistics, static IP, Ping, and user password management. Supports online reboot, factory reset, system upgrade, and configuration file upload/download.
Switch capability	
Switch	Store and forward
Backplane Bandwidth	1.2Gbps
Buffer Size	768kbit
Mac Address Table	2K
Interface	
100M Fiber Port	2*100Base-FX Fiber ports, supporting single-mode/multi-mode, SC/FC/ST connectors, selectable wavelengths, and transmission distances
CAN	Standard: Compliant with CAN 2.0A and CAN 2.0B protocols Ports: 2 *CAN Connection Method: 5-PIN 5.08mm pitch terminal blocks Baud Rate: Selectable from 5kbps to 1000kbps Termination Resistor: Built-in 120 Ω termination resistor, adjustable via dip switches Isolation Protection: 3kVDC isolation
Ethernet management port	1*10/100Base-T(X) auto sensing 100M RJ45 Ethernet port, support MDI/MDI-X connection (for device management only, not for regular communication)
DIP Switch	CAN termination resistor, reboot, factory reset
Status LED	Power indicator, operational indicator, Fiber port indicator, CAN indicator
Power	



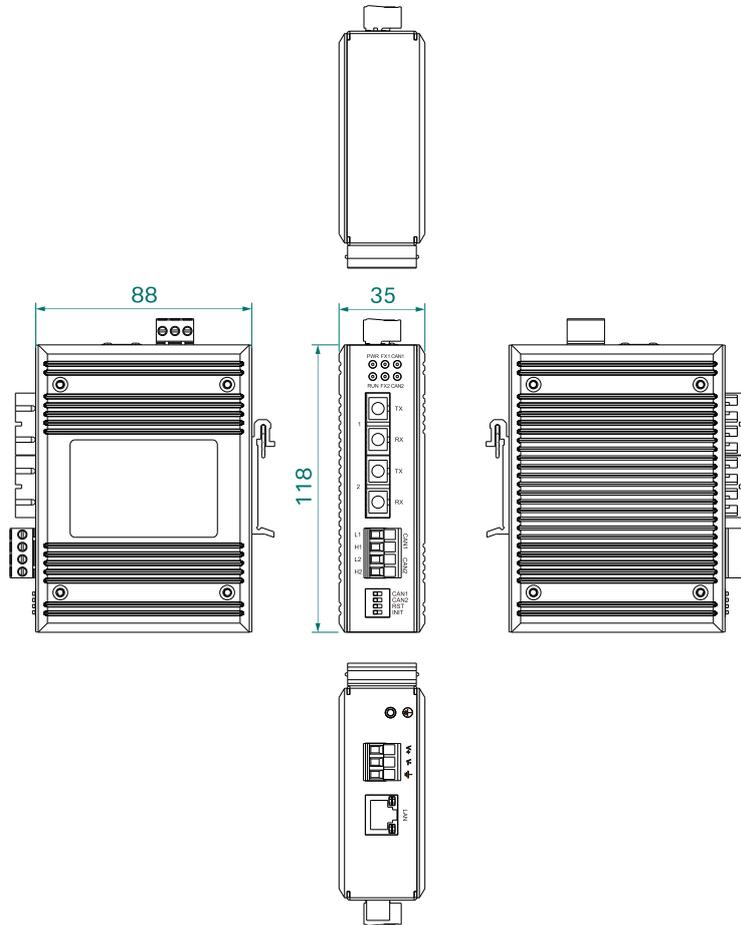
## Specification

Power Input	DC Model: DC9~60V, non-polarized AC Model: AC85~264V (Frequency: 47~63Hz) or DC110~370V
Full Load Power	<2.2W@DC24V(full load)
Connection	3-pin 5.08mm pitch terminal block
<b>Physical Characteristics</b>	
Dimensions	118×35×88mm (DIN rail mounting clip excluded)
Installations	35mm standard DIN-rail installation
IP Code	IP40
Weight	About 0.4kg
<b>Working Environment</b>	
Operating Temperature	-40°C~+75°C
Storage Temperature	-40°C~+85°C
Relative Humidity	5%~95% (non-condensing)
<b>Industry Standard</b>	
EMC	IEC 61000-4-2 (ESD): Contact discharge $\pm 6\text{kV}$ , air discharge $\pm 8\text{kV}$ IEC 61000-4-5 (Surge): Power supply, Ethernet port, CAN: Common mode $\pm 2\text{kV}$ , Differential mode $\pm 1\text{kV}$ IEC 61000-4-4 (EFT): Power supply: $\pm 2\text{kV}$ ; Ethernet port: $\pm 2\text{kV}$



## Dimensions

Unit: mm



## Ordering Information

Standard Model	100M Fiber Port	CAN	Input Voltage
MW-CANFiber600-2F(M/S)	2	2	DC9~60V
MW-CANFiber600-2F(M/S)-AD220	2	2	AC85~264V or DC110~370V



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