



### ◆ CAN to Fiber Converter

#### ➤ Features

- Support CAN2.0A and CAN2.0B protocol, conform to the ISO/DIS 11898
- Integrate 1 UTD CAN interface and 1 optical interface
- CAN interface supports auto-detect baud rate and user-defined baud rate, the baud rate matches the range of 2.5k~1Mbps
- Support optic fiber transmit CAN network data
- Extend transmission distance to 15 KM
- CAN interface has electrical isolation protection with 2KVAC isolation voltage; Supports 8KV ESD protection(air discharge)
- Port Data Throughput: 1000fps
- Optional installation of external termination resistors
- Industrial design, IP40 protection
- Support DIN-Rail and wall mounting installation
- Working Temperature: -40~85°C



#### ➤ Introduction

MWCF is a CAN bus to fiber converter. It designs specially to deal with the short transmission distance of CAN bus, the subjection to electromagnetic interference and other issues. CAN bus transfer to fiber is able to provide the user with transparent data transmission of CAN bus to fiber. It is working in pairs, is more convenient to put the CAN signal revert to the CAN signal through fiber transmission.

MWCF serial converter integrates an optical interface and a 2KVAC electrically isolated CAN bus interface, is able to receive/store/transmit different rates between 2 CAN network data. CAN bus interface of MWCF supports various of standard communication baud rate recommended by CiA, is capable for detecting and matching automatical baud rate and defining baud rate by user, the baud rate ranges from 2.5Kbps to 1Mbps; it can connect external termination resistors at the same time. Its single-model fiber interface can be used in high-interference environment and has concentrated energy, which is more suitable for long-distance transmission, is better to extend the network communication distance.

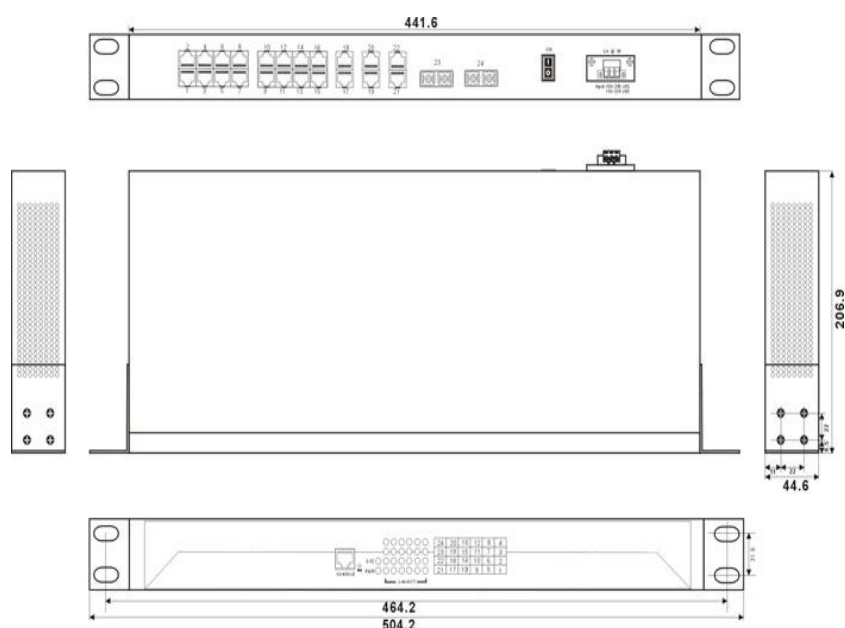
MWCF adopts EMC protection design, supports wall and panel mounting. It can be used at the harsh environment from -40°C to 85°C.

#### ➤ Specification

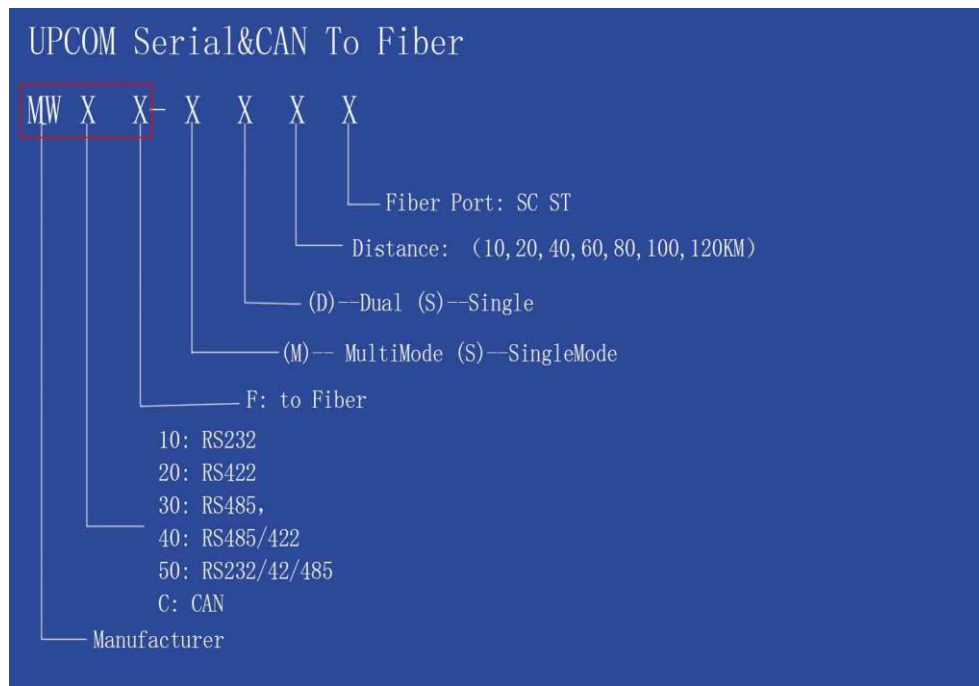
Fiber Interface	
Interface Type	single optical port or dual optical port, SC/ST/FC optional
Fiber Type	single-model/multi-model
Wavelength	1310nm
CAN Interface	
Standard	CAN2.0A, CAN2.0B
CAN Signal	GND, CANL, CANH
Baud Rate	2.5K ~ 1000K bps
Interface Resistor	120ohm external Terminator optional
Port Node	load capacity supports 110 nodes

Interface Protection	2KVAC isolation protection, 8KV ESD protection(air discharge)
Interface Type	5PIN terminals
Transmit Distance	
CAN Interface	40m~10Km
Single-model Fiber	0~15Km
Indicator	
CAN	CAN channel status indicator
LOS	Network error status indicator
Power	Power indicator
Power	
Input Voltage	5VDC
No-load Power	1.385W@5VDC
Full Power	1.310W@5VDC
Mechanical Structure	
Shell	IP40 protection grade, high-strength metal casing
Installation	Wall-mount and Panel-mount
Weight	237g
Size(H*W*L)	22mm×69mm×10mm
Working Environment	
Working Temperature	-40~85℃
Storage Temperature	-40~85℃
Industry Standard	
EMI	FCC Part 15, CISPR(EN55022) class A
EMS	EN61000-4-2(ESD), Lece3
Shock	IEC60068-2-27
Free Fall	IEC60068-2-32
Shake	IEC60068-2-6
Warranty Period	5 years
Approvals	CE, FCC, RoHS, UL5

## ➤ Dimension



## ➤ Ordering Information



## ➤ Packing List

- MWCF series Fiber Converter×1
- User manual ×1