MC201

CAN Bus to optic fiber converter

Features

1. Support CAN2.0A and CAN2.0B protocol, conform to the ISO/DIS 11898

2. Integrate1 UTD CAN interface and 1 optical interface

3. CAN interface supports auto-detect baud rate and user-defined baud rate, the baud rate matches the range of 2.5k~1Mbps

4. Support optic fiber transmit CAN network data

5. Extend transmission distance to 15 KM

6. CAN interface has electrical isolation protection with 2KVAC isolation voltage; Supports 8KV ESD protection(air discharge)

7. Port Data Throughput: 1000fps

8. Optional installation of external termination resistors

9. Industrial design, IP40 protection

10. Support DIN-Rail and wall mounting installation

11. Working Temperature: -40~85℃

Introduction

MC201 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.
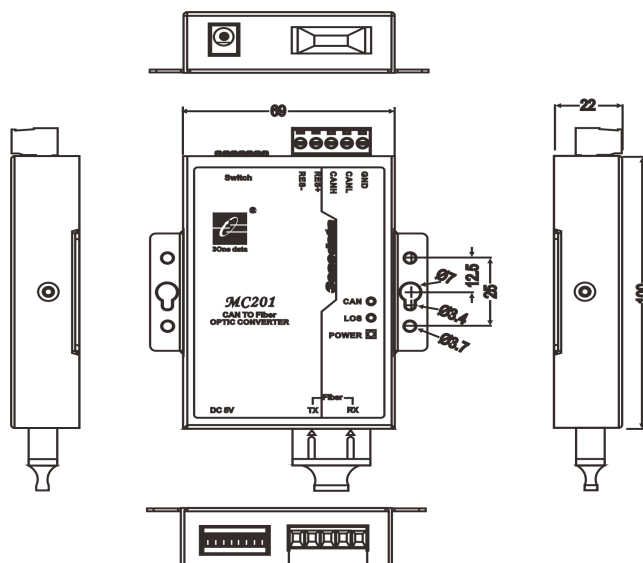
MC201 serial converter integrates an optical interface and a 2KVAC electrically isolated CAN bus interface, is able to receive/store/transmit different rates between 2 CAN network data. CAN bus interface of MC201 supports various of standard communication baud rate recommended by CiA, is capable for 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.

MC201 adopts EMC protection design, supports wall and panel mounting. It can be used at the harsh environment from -40℃ to 85℃.

Dimensions

Unit（mm）

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), Level3

Shock: IEC60068-2-27

Free Fall: IEC60068-2-32

Shake: IEC60068-2-6

Warranty Period: 5 years

Approvals: CE, FCC, RoHS, UL5

Ordering Information

Type		Interface						Power
Standard Type	CAN Interface	Fiber Interface						
		Single-model Fiber			Multi-model Fiber			
		SC	ST	FC	SC	ST	FC	
MC201	1	1	-	-	-	-	-	5VDC
MC201	1	-	1	-	-	-	-	
MC201	1	-	-	1	-	-	-	
MC201	1	-	-	-	1	-	-	
MC201	1	-	-	-	-	1	-	
MC201	1	-	-	-	-	-	1	