CLR-CAN-F11

CAN Bus Serial To Fiber Optic Modem

Overview

CLR-CAN-F11 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.

CLR-CAN-F11 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 CLR-CAN-F11 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.

CLR-CAN-F11 adopts EMC protection design, supports wall and panel mounting. It can be used at the harsh environment from -40°C to 85°C.

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Quality Link Connections

CLR-CAN-F11 – CAN Bus Serial To Fiber Optic Modem

Features

- Support CAN2.0A and CAN2.0B protocol, conform to the ISO/DIS 11898
- Integrate1 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

Specifications

Fiber Interface
Interface Type: single optical port or dual optical port, SC/ST/FC optional
Fiber Type: single-mode/multi-mode
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 x 69mm x 10mm

Working Environment
Working Temperature: -40~85°C
Storage Temperature: -40~85°C

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

Approvals : CE, FCC, RoHS, UL508

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