

IT-485-CAN

CAN-Bus to RS-485 Interface Converter

Features

1. Bidirectional data communication between CAN-Bus and RS-485
2. Support CAN2.0A and CAN2.0B protocol, in compliance with the ISO/DIS 11898 specification
3. Integrated 1 CAN-Bus communication interface, support for user-defined baud rate
4. Integrated 1 RS-485 three pins type communication interface, communication rate between 300~115200bps can be set
5. Provide three kinds of data conversion modes: transparent conversion, transparent with the identity conversion, Modbus protocol conversion
6. CAN-Bus circuit using 2000V AC electrical isolation, support 8KV electrostatic protection (air discharge)
7. CAN-Bus baud rate 2.5k~1Mbps
8. Maximum frame rate: 500 frames per second
9. DC9~48V wide voltage supply input, power supply support reverse connection
10. IP40 protection grade, DIN-Rail or wall mounting installation
11. -40 to 75°C working temperature



Introduction

IT-485-CAN is suitable for data exchange between CAN-Bus field bus and RS-485 bus interface converter, and supports Modbus RTU protocol. IT-485-CAN interface converter integrated a RS-485 channel and a CAN-Bus channel can be easily embedded using RS-485 interface for communication nodes, do not need to change the original hardware architecture enables the device to obtain the CAN-Bus communication interface, to achieve between the equipments of RS-485 and CAN-Bus network connection and data communication. RS-485 channel IT-485-CAN devices to support a variety of baud rate, the range is 300bps~115200bps. CAN-Bus channel support CiA recommended a variety of standard baud rate

and user-defined baud rate, the range of 2.5Kbps~1Mbps. IT-485-CAN interface converter provides three types of data conversion: transparent conversion, encryption conversion and Modbus protocol conversion.

Its exterior design supports DIN-Rail mounting and Wall mounting, which is convenient for engineering application. The board comes with a photoelectric isolation module, complete electrical isolation control circuit and CAN-Bus communication circuit, so that the IT-485-CAN converter has a strong anti-interference ability, greatly improving the system in the harsh environment of the use of reliability.

Specification

Serial Interface

Standard: RS-485

RS485 port number: 1

RS-485 signal: D+, D-, GND

Parity bit: None, Even, Odd, Space, Mark

Data bit: 8bit

Stop bit: 1bit, 2bit

Band rate: 300bps~115200bps

Transfer distance: no more than 15m

Connector: DB9 Female

Protection: class 3 static

CAN Interface

Standard: CAN2.0A, CAN2.0B

CAN-Bus port number: 1

CAN-Bus signal: CANL, CANH, GND, RES+, RES-

Band rate: 2.5K~1Mbps

Transfer distance: 40m~10Km

LED indicator

CAN-Bus port indicator: CAN
 Serial port indicator: RS-485
 Power supply indicator: POWER

Power supply

Input Voltage: 9VDC (9~48VDC)
 Type of input: 2 bits terminal block
 Power support reverse connection

Consumption

No-load consumption: 1.58W@9VDC
 Full-load consumption: 1.60W@9VDC

Working environment

Working temperature: -40~75°C
 Storage temperature: -40~85°C
 Relative Humidity: 5% ~ 95 % (no condensation)

Mechanical Structure

Shell: IP40 protect grade, metal shell
 Installation: DIN-Rail or Wall mounts
 Weight: 237g
 Size (W×H×D): 69mm×22mm×100mm

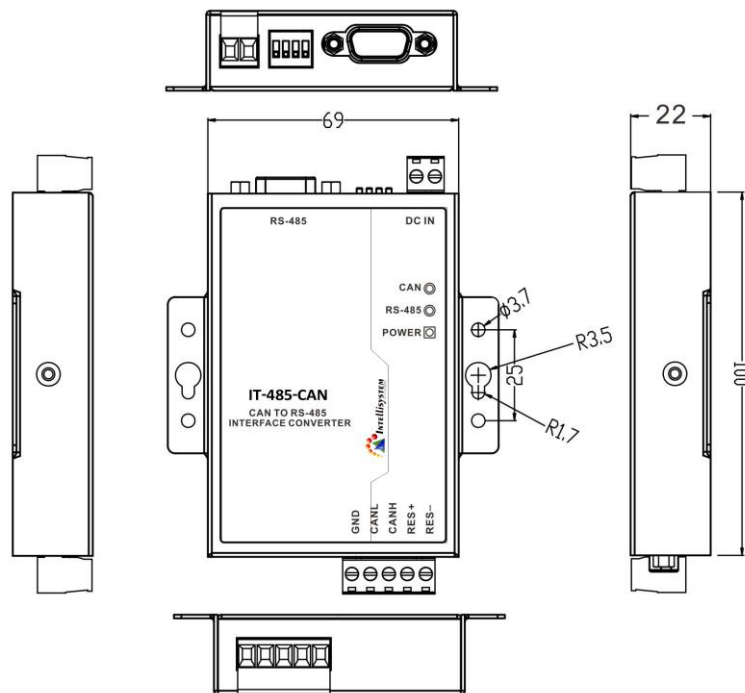
Industry Standard

EMI: FCC Part 15, CISPR (EN55022) class A
 EMS: EN61000-4-2 (ESD), Level 3
 Shock: IEC 60068-2-27
 Free fall: IEC 60068-2-32
 Vibration: IEC 60068-2-6

Certification

CE, FCC, RoHS, UL508 (Pending)

Warranty: 3 years

Dimension
Unit (mm)

Packing List

1. CAN-Bus to RS-485 Interface Converter (plus terminal block) ×1
2. Documentation and software CD ×1
3. User manual ×1
4. Certificate of quality ×1
5. Warranty card ×1
6. Terminal resistance 120Ω ×1