CAN232

Features

1. Bidirectional data communication between CAN-Bus and RS-232

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-232 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. -40-75℃ working temperature
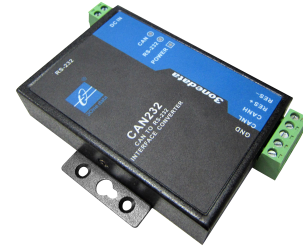
Introduction

CAN232 is used for data exchange between CAN-Bus field bus and RS-232 bus interface converter, and supports Modbus RTU protocol. CAN232 interface converter integrated a RS-232 channel and a CAN-Bus channel can be easily embedded using RS-232 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 equipment of RS-232 and CAN-Bus network connection and data communication. RS-232 channel CAN232 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. CAN232 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 CAN232 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-232

RS232 port number: 1

RS-232 signal: RXD, TXD, GND

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

Data bit: 8bit

Stop bit: 1bit, 2bit

Band rate: 300bps～115200bps

Loading: point to point

Transfer distance: no more than 15m

Connector: DB9 Female

Protection: class 3 static

CAN-Bus 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-232

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: 0.86W@9VDC

Full-load consumption: 0.89W@9VDC

Working environment

Working temperature: -40～75℃

Storage temperature: -40～85℃

Relative Humidity: 5%~95 %(no condensation)

Mechanical Structure

Shell: IP40 protect grade, metal shell

Installation: DIN-Rail or Wall mounts

Weight: 238g

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
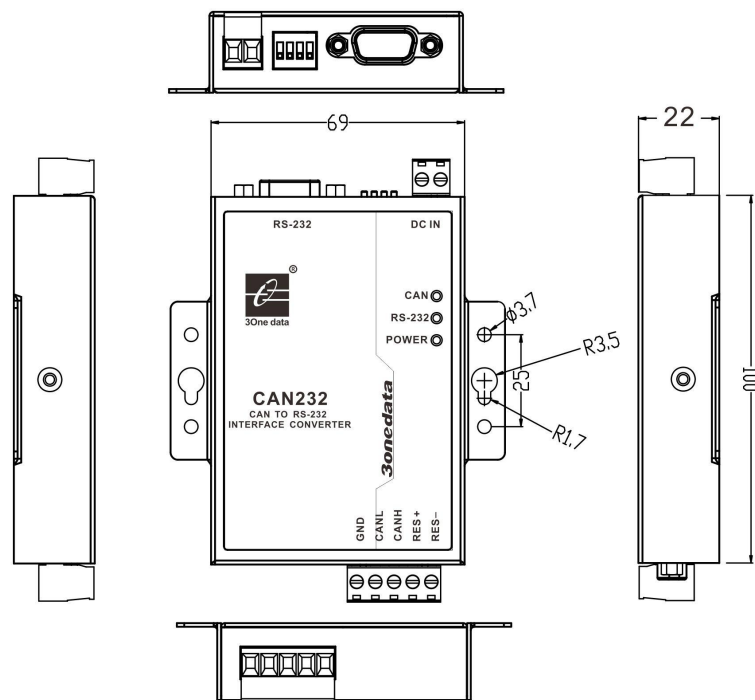
Vibration: IEC 60068-2-6

Certification

CE, FCC, RoHS, UL508 (Pending)

Warranty: 3 years

Dimension

Unit (mm)

Packing List

1. CAN-Bus to RS-232 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