



I-7530/I-7530T

Intelligent RS-232 to CAN Converter

Features

- Compatible with CAN specification 2.0A and B
- Fully compatible with ISO 11898-2 standard
- Support various baud rate from 10K bps to 1M bps
- Jumper for 120 Ω terminal resistor
- Software configurable CAN and RS-232 communication parameters
- 1000 frames in CAN received buffer, 900 frames in RS-232 received buffer
- Watchdog inside
- Support transparent communication mode
- Full-duplex communication mode of RS-232 devices is not supported

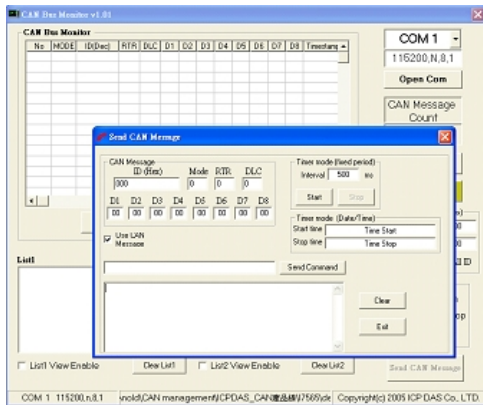


Introduction

The PC can be the CAN host, monitor or HMI to access/control the CAN device through the CAN network by the I-7530/I-7530T converter. The programmable RS-232 device (For example: PACs of ICP DAS) can use the serial port to connect to the CAN network via the I-7530/I-7530T module. The I-7530/I-7530T is designed to unleash the power of CAN bus via RS-232 communication method. It accurately converts messages between CAN and RS-232 networks. This module let you communicate with CAN devices easily from any PC or devices with RS-232 interface.

CAN Monitor & Data log Tools

- Show CAN messages by hex or decimal format
- CAN messages with timestamp
- Easy-to-use data logger for the diagnosis of the CAN networks and recording of the received data
- Send the predefined CAN messages manually or cyclically

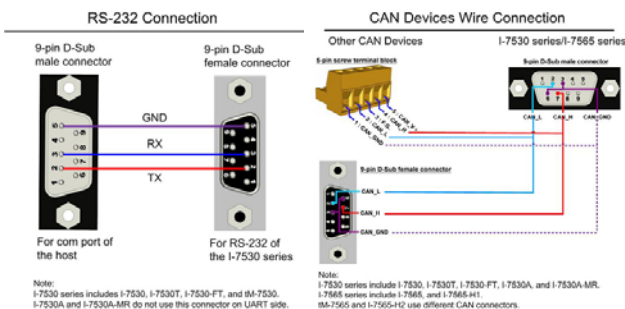


Utility Features

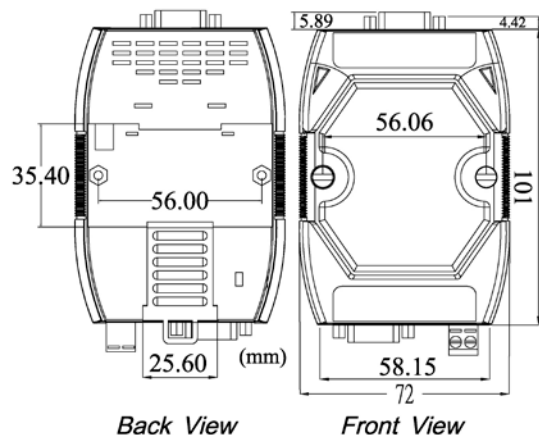


- CAN bus baud rate configuration
- CAN acceptance filter configuration
- CAN 2.0A or 2.0B specific selection
- Serial COM baud rate and data bit setting
- Serial COM command error response selection
- Utility tool for transmitting / receiving CAN messages

Pin Assignments



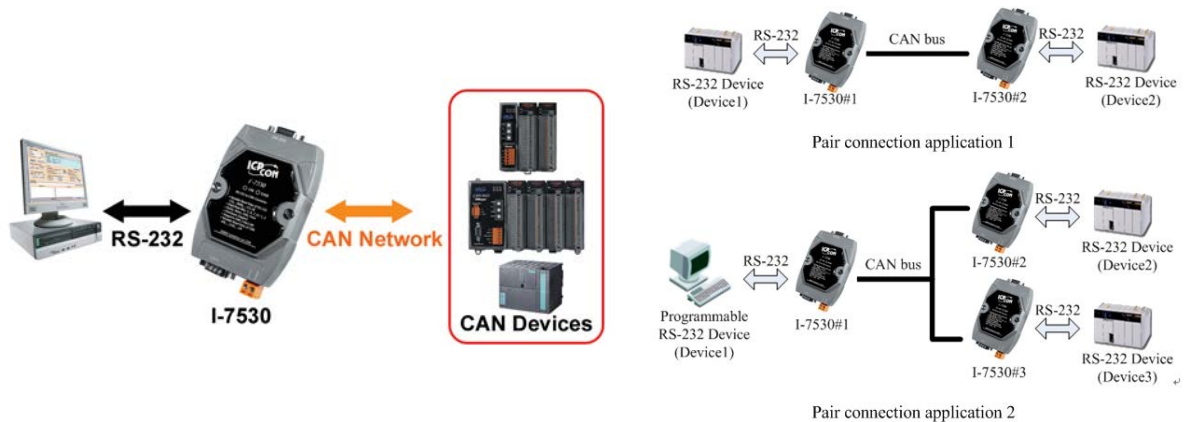
Dimensions (Units: mm)



Hardware Specifications

| CAN Interface | |
|---------------------------|---|
| Controller | Microprocessor inside with 20 MHz |
| Channel number | 1 |
| Connector | 9-pin male D-Sub (CAN_L, CAN_H, N/A for others) |
| Baud Rate (bps) | 10 k, 20 k, 50 k, 125 k, 250 k, 500 k, 800 k, 1 Mbps |
| Transmission Distance (m) | Depend on baud rate (for example, max. 1000 m at 50 kbps) |
| Isolation | 3000 V _{DC} for DC-to-DC, 2500 V _{rms} for photo-couple |
| Terminal Resistor | Selectable 120 Ω terminal resistor by jumper |
| Specification | ISO-11898-2, CAN 2.0A and CAN 2.0B |
| Receive Buffer | 1000 data frames |
| UART Interface | |
| COM | RS-232 |
| COM Connector | 9-pin female D-Sub (TxD, RxD, GND, N/A for others) |
| Baud Rate (bps) | 110, 150, 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 bps |
| Data bit | 5, 6, 7, 8 |
| Stop bit | 1, 2 |
| Parity | None, Even, Odd |
| Receive Buffer | 900 data frames |
| LED | |
| Round LED | ON LED: Power and Data Flow; ERR LED: Error |
| Power | |
| Protection | Power reverse polarity protection, Over-voltage brown-out protection |
| Power Consumption | 1 W |
| Mechanism | |
| Installation | DIN-Rail |
| Dimensions | 72mm x 118mm x 33mm (W x L x H) |
| Environment | |
| Operating Temp. | -25 ~ 75 °C |
| Storage Temp. | -30 ~ 80 °C |
| Humidity | 10 ~ 90% RH, non-condensing |

Application



Ordering Information

| | |
|---------------------|--|
| I-7530-G CR | Intelligent RS-232 to CAN converter (RoHS) |
| I-7530T-G CR | Intelligent RS-232 to CAN converter (RoHS) |