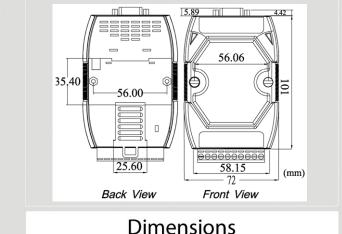
CAN Series Products

Intelligent Modbus RTU to CAN Converter







I-7530A-MR

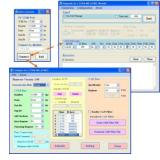
The I-7530A-MR is designed to unleash the power of CAN bus via RS-232/485/422 communication method. It accurately converts messages between CAN and RS-232/485/422 networks. This module let you communicate with CAN devices easily from any PC or devices with RS-232/485/422 interface. The programmable RS-232/485/422 device (For example: PC, PLC or PAC) or Modbus RTU master device can use the serial port to connect to the CAN network via the I-7530A-MR.

Features

- RoHS Design
- Fully compatible with ISO 11898-2 standard
- Programmable CAN bus baud rate from 10 kbps to 1Mbps or user-defined baud rate
- Support CAN bus acceptance filter configuration
- Support firmware update via RS-232
- Provide utility tool for users module setting and CAN bus communication testing conveniently
- Built-in jumper to select 120Ω terminal resister
- Provide 128 data frames in the CAN buffer and 256 bytes in the UART buffer
- Power, data flow and error indicator for CAN and UART
- Hardware Watchdog design
- Convert CAN message to specific ASCII command string (Normal mode)
- Convert specific ASCII command string to CAN message (Normal mode)
- Provide the transparent communication between the RS-232/485/422 devices via CAN bus (Pair-connection mode)
- Support function code 0x03/0x04/0x10 of Modbus RTU functions for reading and writing CAN message (Modbus RTU mode)

Utility Features

- CAN bus baud rate configuration
- CAN acceptance filter configuration
- RS-232/485/422 baud rate and data format configuration
- RS-232/485/422 communication with checksum function selection



- Communication mode setting
- Easily transmit/receive CAN messages

CAN Monitor & Data log Tools

- Show CAN messages in 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

| No MODE | 10(Dec) [RTR] DLC [D1 [D2 [D3] D4 [05] D8 [0 | 7 Dil Treetang + | COM 1 115200,N,8, Open Com |
|---------|------------------------------------------------------------------------------------|------------------|----------------------------------|
| | Stad CAN Hensys | | CAN Messag Count |
| | CAN Weaked 10 Office) Mode RTR, ELC 100 0 10 10 10 10 10 10 10 10 10 10 10 1 | | • |
| | | | Chur Eul |



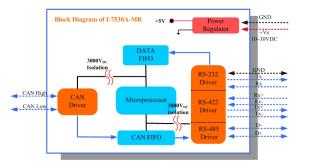




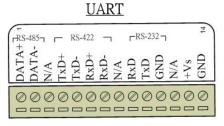
| CAN Interface | | |
|-----------------------|--------------------------------------------------------------------------------------------|--|
| Controller | Microprocessor inside with 96 MHz | |
| Transceiver | NXP 82C250 | |
| Connector | 9-pin male D-Sub (CAN_L, CAN_H, N/A for others) | |
| Channels | 1 | |
| Baud Rate(bps) | 10 k, 20 k, 50 k, 100 k, 125 k, 250 k, 500 k, 800 k and 1 M (allow user-defined baud rate) | |
| Protection | 3000V _{DC} power protection and 3750Vrms photo-couple isolation on CAN side | |
| Terminator Resistor | Selectable 120 Ω terminator resistor by jumper | |
| Support Protocol | ISO-11898-2, CAN 2.0A and CAN 2.0B | |
| Pin Assignment | C.I.A. DS-102 (CAN_H=7, CAN_L=2) | |
| UART Interface | | |
| Connector | 14-pin terminal connector | |
| СОМ | RS-232: TxD, RxD, GND; RS-422: TxD+, TxD-, RxD+, RxD-; RS-485: DATA+, DATA- | |
| Baud rate(bps) | 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200, 230400 | |
| Protection | 3000V _{DC} power protection and 2500Vrms photo-couple isolation on UART side | |
| LED | | |
| Round LED | PWR / CAN / UART | |
| Power | | |
| Power supply | $+10 \sim +30 \ V_{DC}$ | |
| Power Consumption | 1.5W | |
| Dip Switch | Init (Firmware Update, Module Configuration)/Normal (Firmware Operation) | |
| Mechanism | | |
| Installation | DIN-Rail | |
| Dimensions | 72mm x 118mm x 35mm (W x L x H) | |
| Environment | | |
| Operating Temp. | -25°C to 75°C | |
| Storage Temp. | -30°C to 80°C | |
| Humidity | 10~90% non-condensing | |

Block Diagram

Application



Pin Assignments Pin Assignment



50 4

CAN_GND

8 09



Ordering Information

I-7530A-MR-G CR

Intelligent Modbus RTU to CAN converter (RoHS)