Intelligent Modbus RTU to CAN Converter

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
**Hardware Specifications**

### 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 120Ω 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
- **COM**: 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 ~ +30 VDC
- **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

### Ordering Information
- **I-7530A-MR-G CR**: Intelligent Modbus RTU to CAN converter (RoHS)