Intelligent RS-232 to CAN Converter

The PC can be the CAN host, monitor or HMI to access/control the CAN device through the CAN network by the I-7530 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 module. The I-7530 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.

**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 ȍ terminator 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

**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

**Wire Assignments**
Hardware Specifications

**CAN Interface**
- Controller: Microprocessor inside with 20 MHz
- Transceiver: NXP 82C250
- 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 VDC for DC-to-DC, 2500 Vrms for photo-couple
- Terminator Resistor: Selectable 120Ω terminator 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

**Applications**

**Ordering Information**
- I-7530-G: Intelligent RS-232 to CAN converter
- I-7530-G CR: Intelligent RS-232 to CAN converter (RoHS)