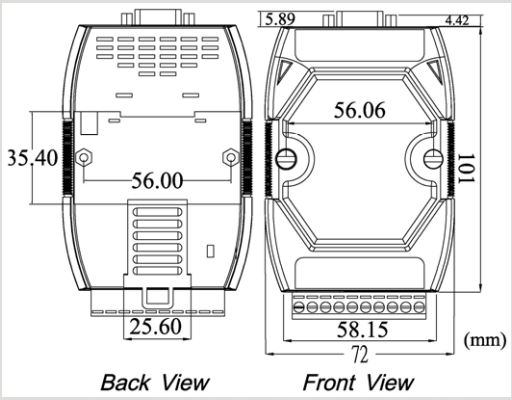
CAN Series Products

Intelligent RS-232/485/422 to CAN Converter

I-7530A



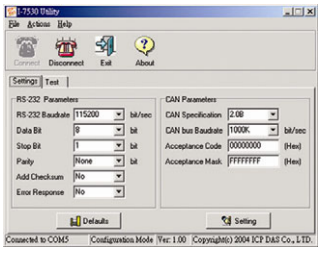
Dimensions

The I-7530A 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 to 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) can use the serial port to connect to the CAN network via the I-7530A.

Features

- Compatible with CAN specification 2.0A and B
- Fully compatible with ISO 11898-2 standard
- Support various bauds from 10K bps to 1M bps
- Jumper for 120 Ω terminator resistor
- Software configurable CAN and RS-232 /422/485 communication parameters
- Power, data flow and error indicator for CAN and RS-232/422/485
- Watchdog inside
- Provide the transparent communication between the RS-232/485/422 devices via CAN bus
- Enable different RS-232/485/422 devices into an individual group in CAN bus network.
  (Full-duplex communication mode of RS-232/422 devices is not supported)

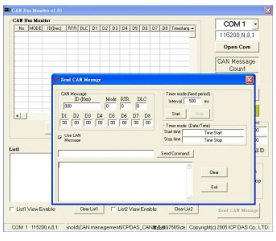
Utility Features



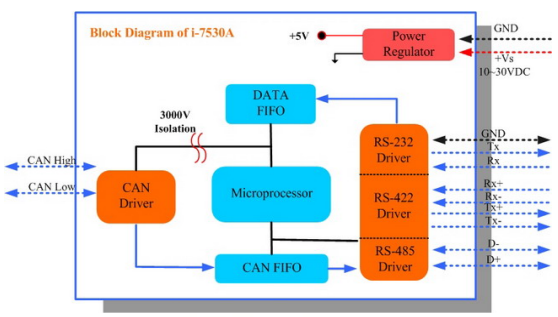
- CAN bus baud rate configuration
- CAN acceptance filter configuration
- CAN 2.0A or 2.0B specific selection
- Serial COM baud rate and data bit setting
- Serial COM command error response selection
- Easy tool to transmit / receive CAN messages

CAN Monitor & Data log Tools

- Show CAN messages by hex or decimal format
- CAN messages with time stamp
- Easy-to-use data logger for the diagnosis of CAN Networks and recording of process data.
- Send the defined CAN messages manually or cyclically.



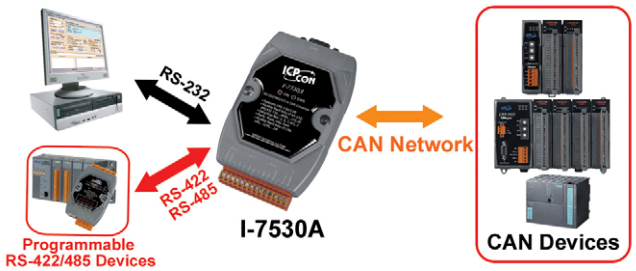
Block Diagram



Hardware Specifications

Item	I-7530A
CAN Controller	Microprocessor inside with 20MHz
CAN Port Channels	1
CAN Transceiver	Philips 82C250
CAN Connector	ISO/IS 11898-2, 9-pin D-sub connector
Buad Rate	10K, 20K, 50K, 100K, 125K, 250K, 500K, 800K and 1Mbps
Protection	3000 VDC power protection on CAN side, 2500Vrms photo-couple isolation on CAN bus
Terminator Resistor	Selectable 120Ω terminator resistor by jumper
Support Protocol	CAN 2.0A/2.0B
Pin out	C.I.A. DS-102 (CAN_H = 7, CAN_L = 2, GND = 3)
Receive Buffer	1000 data frames
RS-232/422/485 Interface	
Connector	14-pin terminal connector
Baud Rate	110, 150, 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 bps
Data Bits	5, 6, 7, 8
Parity/Stop Bits	Odd, even, or no parity/1,2
Receive Buffer	900 data frames
General	
Power Consumption	1W
Power Requirement	Unregulated +10V DC ~ +30V DC. Power reverse protection, Over-Voltage brown-out protection
LEDs	ON LED: Power and Data Flow; ERR LED: Error
Environment	
Operating Temp.	-25℃ to 75℃
Storage Temp.	-40℃ to 80℃
Humidity	5~95% non-condensing
Dimensions	118mm x 72mm x 33mm (H x W x D)

Application



Pin Assignments

Table 1: RS-232/485/422 Connector (CN1)

Terminal	RS-232/485/422
1	(Y)DATA+ (RS-485)
2	(G)DATA- (RS-485)
3	Not Connect
4	Tx+ (RS-422)
5	Tx- (RS-422)
6	Rx+ (RS-422)
7	Rx- (RS-422)
8	Not Connect
9	RXD (RS-232)
10	TXD (RS-232)
11	(B)GND (RS-232)
12	Not Connect
13	+Vs (Power)
14	(B)GND (Power)

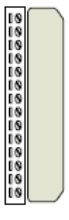
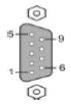


Table 2: CAN DB9 Male Connector (CN2)

Terminal	2-wire CAN
1	Not Connect
2	CAN Low
3	Not Connect
4	
5	
6	
7	CAN High
8	Not Connect
9	



Ordering Information

I-7530A CR	Intelligent RS-232/485/422 to CAN Converter (RoHS)