

CAN bus Converter

Intelligent RS-232/485/422 to CAN Converter CE FC Converter



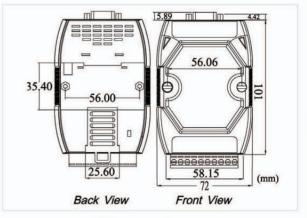








I-7530A



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 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
- Fully compatible with ISO 11898-2 standard
- Support various baud rate from 10 kbps to 1
- Jumper for 120 Ω terminator resistor
- Software configurable CAN and RS-232/RS-422/ RS-485 communication parameters
- 1000 frames in CAN received buffer, 900 frames in RS-232/RS-422/RS-485 received buffer
- Watchdog inside
- Provide the transparent communication between the RS-232/RS-485/RS-422 devices via CAN bus
- Enable different RS-232/RS-485/RS-422 devices into an individual group in CAN bus network. (Full-duplex communication mode of RS-232/ RS-422 devices is not supported)
- Utility Features

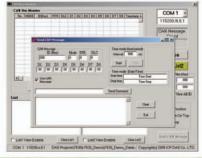


- CAN bus baud rate configuration
- CAN acceptance filter configuration
- CAN 2.0A or 2.0B specific selection

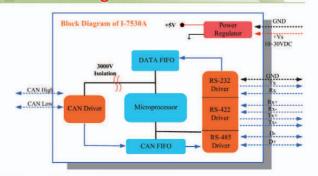
- Serial COM baud rate and data bit setting
- Serial COM command error response selection
- Utility tool for transmitting / receiving CAN messages

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
- Send the predefined CAN messages manually or cyclically



Block Diagram



Hardware Specifications



CAN Interface	
Controller	Microprocessor inside with 20MHz
Transceiver	NXP 82C250
Connector	9-pin male D-Sub (CAN_L, CAN_H, N/A for others)
Port Channels	1
Buad Rate	10 k, 20 k, 50 k, 100 k, 125 k, 250 k, 500 k, 800 k and 1 Mbps
Protection	3000 V _{DC} power protection on CAN side, 2500Vrms photo-couple isolation on CAN but
Terminator Resistor	Selectable 120 Ω terminator resistor by jumper
Support Protocol	CAN 2.0A/2.0B
Receive Buffer	1000 data frames
UART Interface	
COM	RS-232 · RS-485 · RS-422
	14-pin terminal connector
	RS-232 : TxD, RxD, GND
Connector	RS-422 : Tx+, Tx-, Rx+, Rx-
	RS-485 : D+, D-
Baud Rate	110, 150, 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 bps
Data Bits	5, 6, 7, 8
Stop Bits	1,2
Parity	None, Even, Odd
Receive Buffer	900 data frames
Power	
Power Consumption	1W
Power Requirement	Unregulated +10V _{DC} ~ +30V _{DC} . Power reverse protection, Over-Voltage brown-out protection
LED	
Round LED	ON LED: Power and Data Flow; ERR LED: Error
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% non-condensing

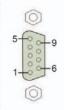
Application



Pin Assignments

	RS-232/485/422 Connector (CN1)	Table 1:
	RS-232/485/422	Terminal
0.40	(Y)DATA+ (RS-485)	1
8.6	(G)DATA- (RS-485)	2
IG	Not Connect	3
100	Tx+ (RS-422)	4
100	Tx- (RS-422)	5
11.0	Rx+ (RS-422)	6
100	Rx- (RS-422)	7
100	Not Connect	8
0.0	RXD (RS-232)	9
100	TXD (RS-232)	10
100	(B)GND (RS-232)	11
00	Not Connect	12
1000	+Vs (Power)	13
	(B)GND (Power)	14

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	



1-08

Ordering Information

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