I-7565

Intelligent USB to CAN Converter

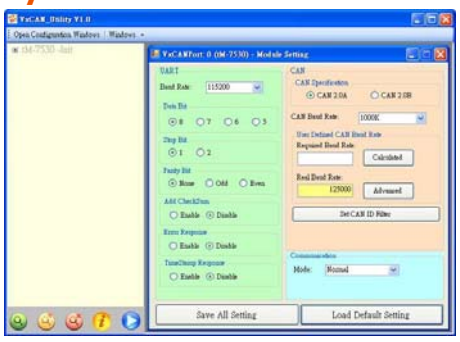
Features

- Fully compliant with USB 1.1/2.0(Full Speed)
- Fully compatible with the ISO 11898-2 standard
- Powered by the USB bus
- Transmission speed up to 1M bps for CAN and Max. 921.6 kbps for USB
- Support both CAN 2.0A and CAN 2.0B
- Built-in jumper to select 120 Ω terminal resister
- Power, data flow and error indicator for CAN and USB
- Watchdog inside
- Support Windows Windows XP/7/10/11 and Linux

Introduction

The I-7565 is a cost-effective device for integrating the CAN bus to the PC by using the standard USB interface. Nowadays the interface is present in every new PC and is supported by the Windows XP, Win 7, Win 10, Win 11 and Linux operating systems. If you establish the connection between the I-7565 and the PC during the runtime of the computer, the PC automatically loads the relevant device driver (plug & play). After installing the I-7565, the PC can access/control the CAN device by the utility tool or users' application, and be the CAN host, network monitor or CAN-interface HMI. This module let your PC communicate with CAN devices easily by using USB interface.

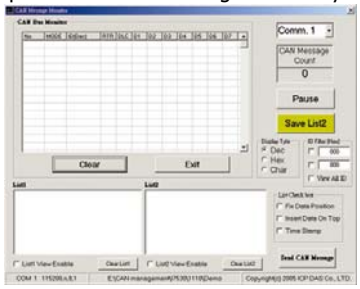
Utility Features



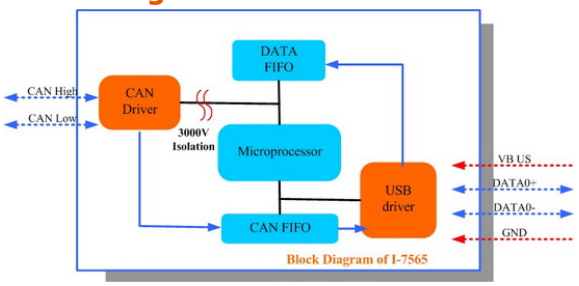
- CAN bus Baud rate configuration
- CAN acceptance filter configuration
- CAN 2.0A or 2.0B specific selection
- Error code response selection
- Utility tool to transmitting / receiving CAN messages

CAN Monitor & Data log Tools

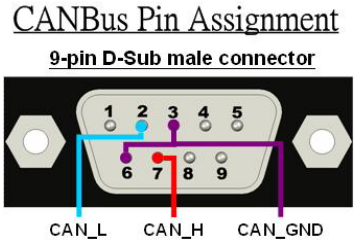
- Show CAN messages by hex or decimal format
- CAN messages with timestamp
- Easy-to-use data logger for the diagnosis of the CAN networks and recording of the received data
- Send the predefined CAN messages manually or cyclically



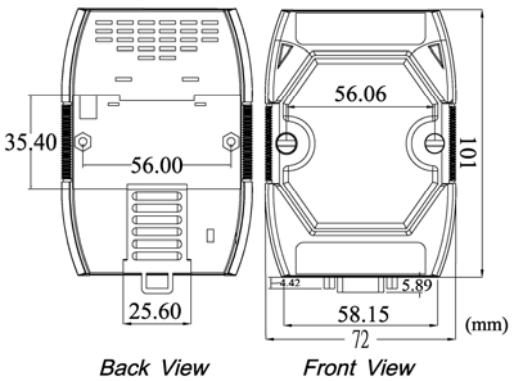
Block Diagram



Pin Assignments



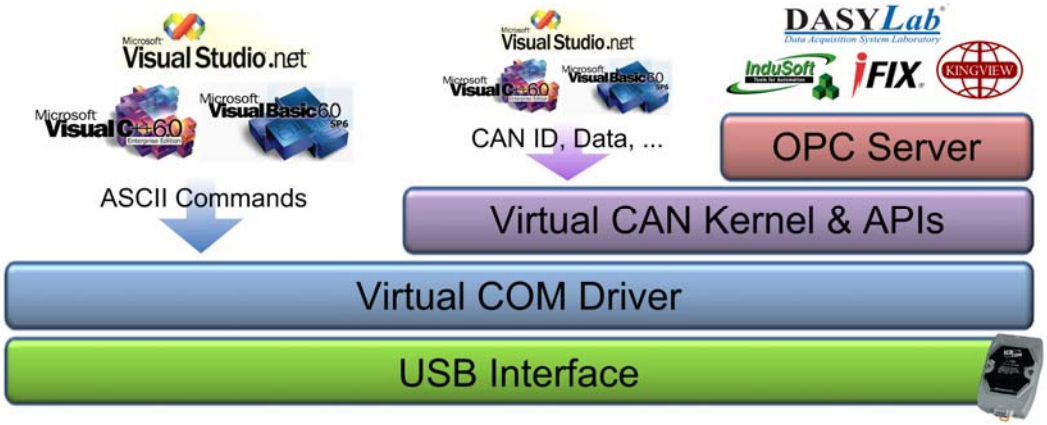
Dimensions (Units: mm)



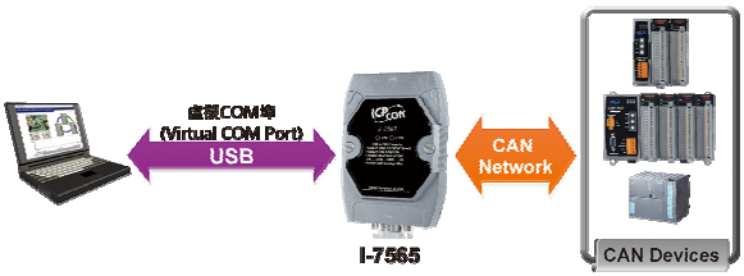
Hardware Specifications

CAN Interface	
Controller	Microprocessor inside with 20 MHz
Port Channels	1
Connector	9-pin male D-Sub (CAN_L, CAN_SHLD, CAN_H, N/A for others)
Baud Rate	10 k, 20 k, 50 k, 100 k, 125 k, 250 k, 500 k, 800 k and 1 Mbps
Isolation	3000 Vrms on the CAN side
Terminal Resistor	Selectable 120 Ω terminal resistor by jumper
Support Protocol	CAN 2.0A/2.0B
Receive Buffer	1000 data frames
Max Data Flow	250 fps
USB Interface	
Connector	USB Type B
Baud Rate	110, 150, 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200, 921600 bps (before firmware version 3.00, it only support 921600bps)
Compatibility	USB 1.1 and 2.0 standard
Receive Buffer	900 data frames
Driver	Windows XP, Win 7, Win 10, Win 11 and Linux
Power	
Power Consumption	1.5W
LED	
Round LED	ON LED: Power and Data Flow; ERR LED: Error
Mechanism	
Installation	DIN-Rail
Dimensions	72mm x 112mm x 33mm (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

Software Architecture



Application



Ordering Information

I-7565-G CR	Intelligent USB to CAN converter (RoHS)