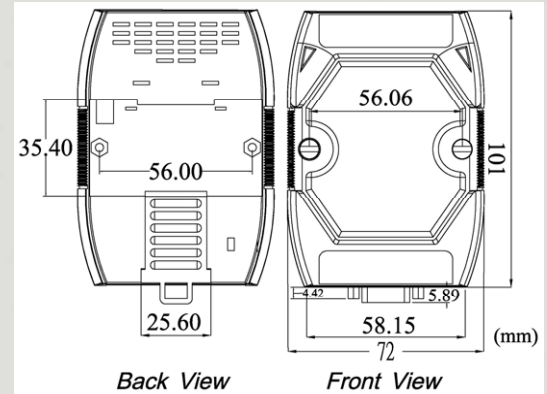




Intelligent USB to CAN Converter



I-7565



Dimensions

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 98, Me, 2000, XP 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.

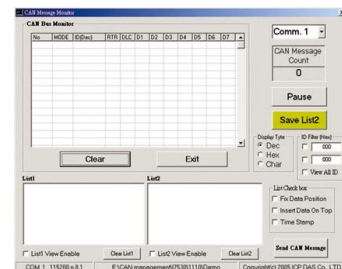
Features

- Microprocessor inside with 20MHz
- RoHS design
- Fully compliant with USB 1.1/2.0(Full Speed)
- Fully compatible with the ISO 11898-2 standard
- Powered by the USB bus
- 82C250 CAN transceiver
- 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 resistor
- Power, data flow and error indicator for CAN and USB
- Watchdog inside
- Support Windows 98/ME/2000/XP, and Linux OS

- 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



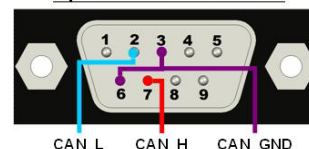
Utility Features



Wire Assignments

CANBus Pin Assignment

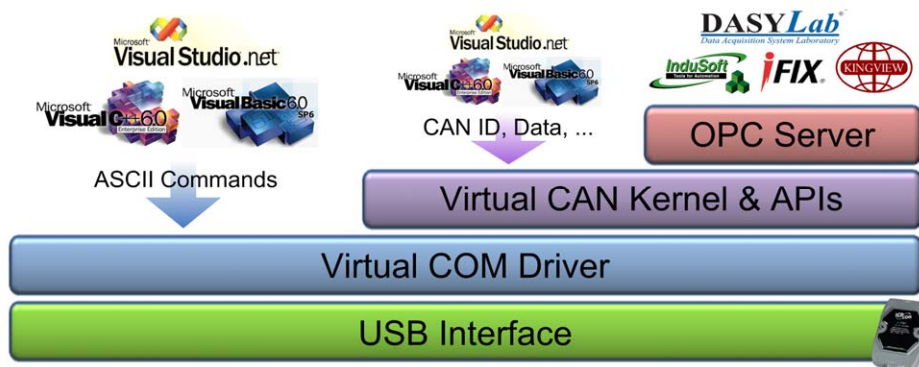
9-pin D-Sub male connector



Hardware Specifications

| CAN Interface | |
|---------------------|---|
| Controller | Microprocessor inside with 20 MHz |
| Port Channels | 1 |
| Transceiver | Philips 82C250 |
| 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 |
| Terminator Resistor | Selectable 120 Ω terminator resistor by jumper |
| Support Protocol | CAN 2.0A/2.0B |
| Receive Buffer | 1000 data frames |
| Max Data Flow | 250 fps |
| UART 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 |
| 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 |

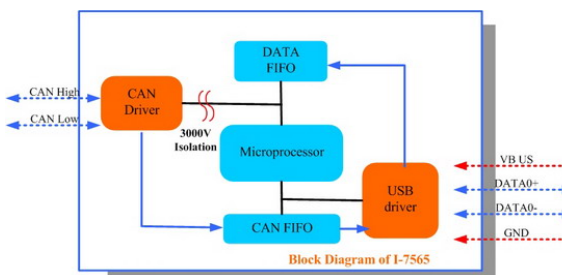
Software Architecture



Application



Block Diagram



Ordering Information

I-7565-G CR

Intelligent USB to CAN converter (RoHS)