

I-7565-H1

High Performance USB to 1-port CAN bus Converter

Features

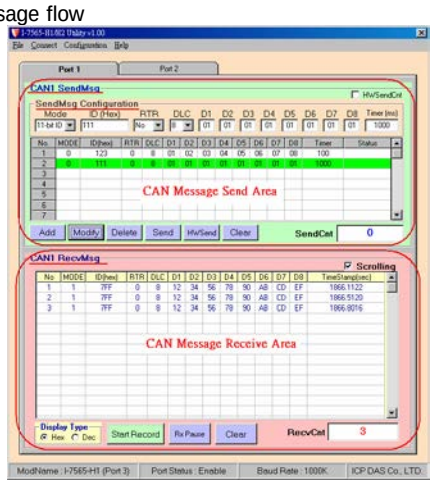
- Fully compliant with USB 1.1/2.0(Full Speed), Powered by USB, and support firmware update via USB
- Fully compatible with the ISO 11898-2 standard and support both CAN 2.0A and CAN 2.0B
- Programmable CAN bus baud rate from 5Kbps to 1Mbps or user-defined baud rate
- Support CAN bus acceptance filter configuration
- Time-stamp of CAN message with ±1ms precision
- Built-in jumper to select 120 ohm terminal resister
- Provide API library for user program development
- PWR / RUN / ERR indicator for CAN and USB
- Watchdog inside
- Support WinXP/2K, Win7/8/10(32&64 bit), Linux

Introduction

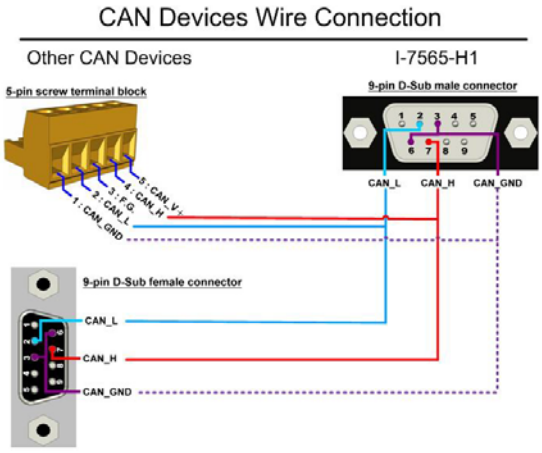
I-7565-H1 is a high performance intelligent USB to CAN converter. It provides faster CAN bus communication performance than I-7565. I-7565-H1 supports CAN2.0A/2.0B protocol and different baud rates from 5 Kbps to 1 Mbps. The important feature of I-7565-H1 is to support the user-defined baud rate function no matter what the baud rate is. When connecting I-7565-H1 to PC, PC will load the relevant device driver automatically (hot plug & play). Therefore, users can make data collection and processing of CAN bus network easier and quicker by applying I-7565-H1.

Utility Features

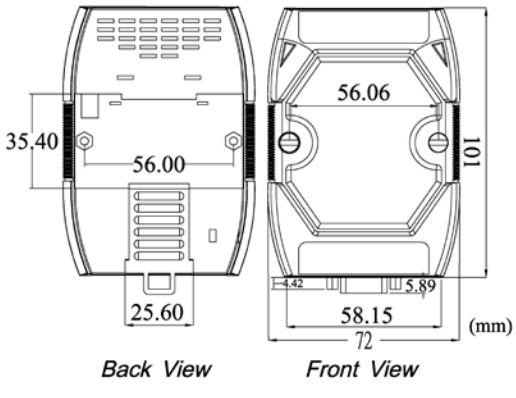
- Provide CAN bus user-defined baud rate / acceptance filter configuration
- Easily transmit/ receive CAN messages for testing and display time-stamp of each received CAN message
- Provide saving the CAN message as “TXT” file for data log
- Provide sending CAN message by using the internal timer of module for high precision transmission
- Check / Reset module status remotely and get current CAN bus message flow



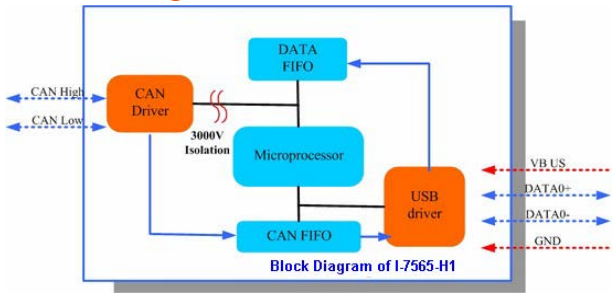
Pin Assignments



Dimensions (Units: mm)



Block Diagram

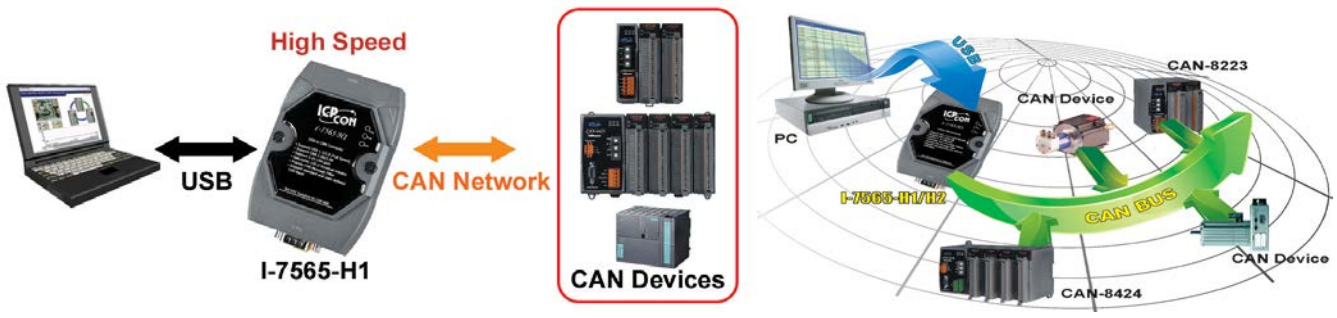


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Hardware Specifications

Hardware	
CAN Port Channels	1
CAN Interface	
Controller	Microprocessor inside with 72MHz
Transceiver	NXP 82C250
Connector	9-pin D-sub connector
Baud Rate (bps)	5K ~ 1Mbps or User-defined baud rate
Transmission Distance (m)	Depends on baud rate (for example, max. 1000 m at 50 kbps)
Isolation	3000V_{DC} for DC-to-DC, 2500Vrms for photo-couple
Terminal Resistor	Selectable 120Ω terminal resistor by jumper
Specification	ISO-11898-2, CAN 2.0A and CAN 2.0B
Pin Assignment	C.I.A. DS-102 (CAN_H=7, CAN_L=2)
Receive Buffer	256 data frames
Max Data Flow	3000 fps
USB Interface	
Connector	USB Type B
Transmission speed	12M bps
Specification	USB 1.1 and USB 2.0 standard
Receive Buffer	100 data frames
LED	
Round LED	PWR / RUN /ERR LED
Software	
Driver	Windows 2000/XP, Win7(32 & 64 bit), Linux and WinCE (available soon)
Power	
Power supply	By USB interface
Power Consumption	1.5 W
Dip Switch	Init (Firmware Update) / Normal (Firmware Operation)
Mechanism	
Installation	DIN-Rail
Dimensions	108mm x 72mm x 35mm (H x W x D)
Environment	
Operating Temp.	-25 ~ 75 °C
Storage Temp.	-30 ~ 80 °C
Humidity	10 ~ 90% RH, non-condensing

Application



Ordering Information

I-7565-H1 CR	High Performance Intelligent USB to 1-port CAN bus converter (RoHS)

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