VScom Serial to CAN Bus Adapter

The CAN Bus has been initially developed to reduce the cabling systems in car and trucks. Because of its high reliability, noise immunity and predictable time behavior the CAN Bus has been adopted as an industrial network especially for factory automation. To meet different connectivity environment, VScom offers different gateway devices for easy use of the CAN Bus: Serial to CAN, USB to CAN and Ethernet to CAN. All devices support CAN 2.0A and CAN 2.0B.

Overview of SER-CAN

The SER-CAN is an adapter from serial port to CAN. It connects a PC via any serial port to CAN bus. Many computers still have a serial port. The installation is simple. CAN Bus is widely used in industrial applications as well as in automotive monitoring and control. The SER-CAN can be used to monitor the data traffic in such installations, as well as sending control information.

Hardware flow control is used to increase the data reliability. Even on RS-232 the SER-CAN can handle High Speed CAN transfers The ASCII conversion protocol is useful in developing and testing any configuration. Users just open the serial port via a Terminal program, and have a simple way to talk to the CAN controller. The same way they can also transmit and receive CAN frames.

Applications programmed by users load the library (DLL) which transparently hands the ASCII conversion. Programmers handle only the CAN frames and status, they do not have to care about the ASCII conversion in their applications.

Complete drivers support Windows Vista 32-bit, Vista 64-bit, 2003, XP, 2000.

Features & Specification
- Model No.: SER-CAN
- Connects a PC via serial port to CAN Bus
- CAN high speed up to 1MBit/s
- Remote Frame support
- Listen only mode
- Library (DLL) for standard access
- ASCII conversion protocol via serial port
- Support in Windows 2000/XP/2003/Vista, Linux Kernel 2.4.32+

CAN

Speed	CAN high speed (up to 1Mbit/s)
Signals	CAN_H, CAN_L, CAN_GND, CAN_V+, GND
Controller	SJA1000 (Philips)
Transceiver	TJA1050 (Philips)
LED	CAN Activity (Data)
	CAN Error
Connector	DB9 male

Serial Port

Interface	RS-232, 115.2 Kbps
Power	USB Bus powered, maximum 200Ma
Operating Systems	Windows 2000/XP/2003/Vista
	Linux kernel 2.4.32+
	Any system capable of 115200/8N1 with RTS/CTS
LED	Power
Connector	DB9 female

Driver and Software

Library	Functions for simple access on all VScom CAN products, supporting Windows and Linux
Speed	CAN speed selectable up to 1 Mbit/s
Transfer	ASCII coding mode
CAN Listen Mode	Passive receive of CAN Frames, neither ACK bits nor Error Frames
LED	CAN Activity (Data)
	CAN Error
Monitoring Tool	SER-CAN is supported by CANHacker

Dimensions	52 x 66 x 23 mm (WxLxH)
Case	SECC sheet metal, 1mm
Power	5VDC, maximum 250mA via power adapter
	Includes external 5V, 1.6A power adapter