



VScom USB 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 USB-CAN

The USB-CAN is an adapter from USB to CAN. It connects a PC via USB interface to CAN bus. Since current computers all have several USB ports, the installation is simple. Even the previous standard of USB 1.1 with 12 Mbit/s maximum speed is sufficient to connect the USB-CAN to a computer. CAN Bus is widely used in industrial applications as well as in automotive monitoring and control. The USB-CAN can be used to monitor the data traffic in such installations, as well as sending control information. The performance of VScom USB-CAN is among the best available in the market of CAN-on-USB products.

Since hardware-based automatic flow control is implemented at the interface between the CAN controller and PC, USB-CAN ensures very high data reliability. 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.: USB-CAN
- Connects a PC via USB to CAN Bus
- CAN high speed up to 1MBit/s
- USB 2.0 full speed
- Powered by USB
- Driver emulates serial port for easy access
- 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

USB

Interface	USB2.0 full speed
Power	USB Bus powered, maximum 200Ma
Driver	Emulated serial port, 3 Mbit/s
Operating Systems	Windows 2000/XP/2003/Vista Linux kernel 2.4.32+
LED	USB power
Connector	USB type B socket

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
Connector	DB9 male
Dimensions	50 x 58 x 23 mm (WxLxH)
Case	SECC sheet metal, 1mm
Power	Bus-power. Powered by USB port. No external power adapter required