USB - CAN

1-port USB to CAN Bus Adapter

CAN	
Speed	CAN High Speed (20kbit/s up to 1Mbit/s) for transmit/receive
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	USB 2.0 Full Speed
Power	USB bus powered, max. 200 mA
Driver	Emulated serial port, 3 Mbit/s
Operating Systems	Windows 2000 up to Windows 8, Windows Server 2000 up to 2008 R2 Linux kernel 2.4.32+, Mac OS X support available
LED	CAN Data, CAN Error
Connector	USB Type B socket
Driver and Software	
Library	Unified API for simple access on all Vscom CAN products. Supports Windows, CE, Linux (x86, x86-64, ARM) targets. Supports C/C++, C#, VB.NET, Delphi and LabVIEW.
Compatibility	Mapper DLLs can simulate software interfaces of CAN adapters from other manufacturers. At the moment some adapters made by PEAK-System are emulated.
CANFestival	CANopen examples showing Master/slave communication
Speed	CAN Speed selectable up to 1 Mbit/s
Transfer	ASCII coding mode
CAN Modes	**Standard Mode**：Normal operation on CAN bus **Listen Mode**：Passive receive of CAN Frames, neither ACK bits nor Error Frames are sent **Self Reception (Echo Mode)**：For testing: Transmitted Frames are also received by the adapter
Monitoring Tools	VScom USB-CAN is supported by Bosch BUSMASTER VScom USB-CAN is supported by CANHacker
Power and Environment	
Power	max. 1W
Power supply	max. 200mA via USB port
Dimensions	50 × 58 × 23 mm³ （W × L × H）
Operating Temp.	0°C - 60°C
Storage Temp.	–20°C - 85°C
Case	SECC sheet metal (1mm)
Weight	50 g
Approvals	
EMC	FCC Class A, CE Class A
Environment	RoHS
Ordering Information	
Art. No.	420
Product Name	VScom USB-CAN
Packing list	◆ VScom USB-CAN ◆ High-Speed USB cable ◆ English Documentation

Overview

The VScom USB-CAN is an adapter from USB to CAN. It connects a PC via the USB interface to the 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 max. speed is sufficient to connect the VScom USB-CAN to a computer.

CAN bus is widely used in industrial applications as well as in automotive monitoring and control. The VScom 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 the PC, the data reliability is very high

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- 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 handles the ASCII conversion. Programmers handle only the CAN frames and status, they do not have to care about the ASCII conversion in their applications. This API is supported in C/C++, C#, VB.NET, Delphi and LabVIEW.

- USB-CAN also supports CANFestival, an Open Source CANopen Framework. CANopen is a CAN-based higher layer protocol that is used in various application fields, such as medical equipment, offroad vehicles, maritime electronics, railway applications or building automation. CANopen unburdens the developer from dealing with CAN-specific details such as bit-timing and implementation-specific functions. It provides standardized communication objects for real-time data, configuration data as well as network management data.

- CANHacker, a tool for analyzing and transmitting frames on the CAN BUS, is included in the product package.

- A set of Mapper DLLs simulates CAN hardware from other manufacturers. Users configure their system for those products or the USB-CAN adapter as a replacement. So existing software will use the USB-CAN without replacing the application or modifying it.