SER - CAN

1-port Serial 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
Serial Port	
Interface	RS232, 115 kbps
Operating Systems	Windows 2000 up to Server 2008 R2, Linux kernel 2.4.32+, any system capable of 115200/8N1 with RTS/CTS
LED	CAN Data, CAN Error
Connector	DB9 female
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 SER-CAN is supported by Bosch BUSMASTER VScom SER-CAN is supported by CANHacker
Power and Environment	
Power	Max. 1.25W
Power supply	5VDC, max. 250mA via power adapter
Dimensions	52 x 66 x 23 mm (W × L × H)
Operating Temp.	0°C - 60°C
Storage Temp.	– 20°C - 85°C
Case	SECC sheet metal (1mm)
Weight	120 g
Approvals	
EMC	FCC Class A, CE Class A
Environment	RoHS
Ordering Information	
Art. No.	421
Product Name	VScom SER-CAN
Packing list	◆ VScom SER-CAN ◆ Power adapter 5V DC ◆ Straight serial cable ◆ English Documentation

Overview

The VScom SER-CAN is an adapter from serial port to CAN. It connects a PC via any serial port to the 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 VScom 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 RS232 the SER-CAN can handle High Speed CAN transfers.

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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.
- SER-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 SER-CAN adapter as a replacement. So existing software will use the SER-CAN without replacing the application or modifying it.

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