

PCI - 2CAN

2-port PCI to CAN Adatper Card

CAN	
Channels	2 separate ports
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
Hardware	
Bus	Universal PCI, 33 MHz
Slot	Requires one slot only
Driver	Emulated serial port, 3 Mbit/s
Operating Systems	Windows 2000/XP/2003/Vista, Linux kernel 2.4.32 +
LED	CAN Data, CAN Error
Connector	USB Type B socket
Driver and Software	
Library	Unified API for simple access on all Vsc.com 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	VSc.com PCI-2CAN is supported by Bosch BUSMASTER VSc.com PCI-2CAN is supported by CANHacker
Power and Environment	
Operating Temp.	0°C - 60°C
Storage Temp.	- 20°C - 85°C
Weight	150 g
Approvals	
EMC	FCC Class A, CE Class A
Environment	RoHS
Ordering Information	
Art. No.	423
Product Name	VSc.com PCI-2CAN
Packing list	<ul style="list-style-type: none"> ◆ VSc.com PCI-2CAN Card ◆ English Documentation

Overview

The VSc.com PCI-2CAN provides double CAN-BUS via a PCI addon card. A single PCI slot is used to place the card into, placing both standard DB9 CAN connectors to the computers case.

CAN bus is widely used in industrial applications as well as in automotive monitoring and control. The VSc.com PCI-2CAN can be used to monitor the data traffic in such installations, as well as sending control information.

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Since hardware-based automatic flow control is implemented at the interface between the CAN controller and the PC, the data reliability is very high.

- ♦ 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.
- ♦ PCI-2CAN 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 PCI-2CAN adapter as a replacement. So existing software will use the PCI-2CAN without replacing the application or modifying it.

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