

CAN

CANcard2



APPLICATION

Installation and maintenance of mobile and stationary CAN networks requires user-friendly test tools.

The powerful PC Card CANcard2, complemented with a modern notebook, forms a compact and mobile hardware platform for CAN tools and user-specific applications.

Industry-common hardware accommodations for PC Cards also allow the use of the same equipment on desktop PCs.

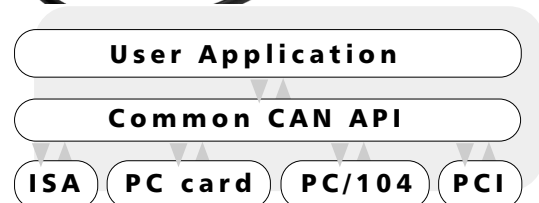
HARDWARE PROFILE

Equipped with a powerful 16-bit microcontroller, CANcard2 enables CAN data streams to be pre-processed and buffered up to a baud rate of 1Mbit/sec without any loss of data.

CANcard2 offers access to two independent CAN networks. The CAN transceivers are integrated in the connector, enabling various physical CAN layers to be connected. The standard scope of delivery contains a connecting cable equipped with two CAN Highspeed Interfaces according to ISO 11898. Additional adapters especially designed for internal buses of the automotive industry are available.

DRIVER SUPPORT

The 32-bit driver libraries for Windows 9x and NT allow easy integration of CAN accesses into PC-based applications. In addition, application examples are available for integration in numerous off-the-shelf applications.



PROGRAMMING INTERFACE

Thanks to the Common CAN Application Programming Interface (API), CANcard2 harmonizes excellently in the existing CAN product line. Therefore, migration to another hardware platform is possible at any time.

The Common CAN Application Programming Interface provides two operating modes:

■ CAN object memory

- Exchange of CAN messages via an object buffer which reserves memory space for send and receive objects
- Static mode (11-bit identifiers, only channel 1) with 2048 send and 2048 receive objects
- Dynamic mode (11- and 29-bit identifiers) with 200 send and 200 receive objects per channel
- Allows remote-controlled and cyclic transmission with a minimum cycle time of 1ms



- Always holds a current image of the CAN distributed database, as applications for measurement and visualization frequently demand

■ FIFO operation

- Sequential storage of up to 255 send and receive messages
- De-coupling of CAN communication and PC application
- Message history containing time stamps with a resolution in microseconds

TECHNICAL DATA

Hardware

CAN interfaces 2 separate network interfaces according to CAN specification 2.0 B with CAN Controller SJA1000

Physical interfaces ■ 2 CAN Highspeed Interfaces in accordance with ISO 11898 up to 1Mbit/s
 ■ 2 D-Sub-9 connectors according to CiA standard

Microcontroller 16-bit controller SAB C165

Code/data memory 256 Kbytes SRAM

PC interface PCMCIA V2.1, 16-bit DPRAM interface

PC memory area for DPRAM 8 Kbytes

PC interrupt One hardware interrupt

Dimensions PC Card type II

Temperature range Operation: 0..55 °C; shipping and storage: -25..70 °C

EMC ■ CE conformity according to EN 55022: 1994 class A and EN 50082-2: 1995 (industrial area)
 ■ FCC part 15 subpart B limit A (industrial area)

Software

Driver library CAN Layer 2 32-bit DLLs and drivers for Windows 9x or Windows NT

System requirements

IBM-compatible PC with PC Card slots type II or III

Scope of delivery

- CANcard2
- Bus adapter cable containing 2 CAN Highspeed Interfaces with D-Sub-9 connectors
- CANcard2 32-bit DLL and VxD Driver for MS-Windows 9x
- CANcard2 32-bit DLL and Kernel Mode Driver for Windows NT (CANcard2N only)
- Sample software
- User manual (English)

On request, application examples showing how to link the programming interface in off-the-shelf applications

Additional software (optional)

CANalyzer bus analysis software

Ordering information

- CANcard2 (with driver library for Windows 9x)
- CANcard2N (with driver library for Windows 9x and NT)

Accessories

- PCCard2-PFX (metal clip of spring steel for additional stabilization of the connection between the card and the bus adapter cable)
- CANcard2/HLSC Bus adapter cable containing 1 CAN Highspeed Interface and 1 CAN Lowspeed Interface with TJA1053 transceiver
- CANcard2/DLSC Bus adapter cable containing 2 CAN Lowspeed Interfaces with TJA1053 transceiver

Please ask for more information and assistance



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