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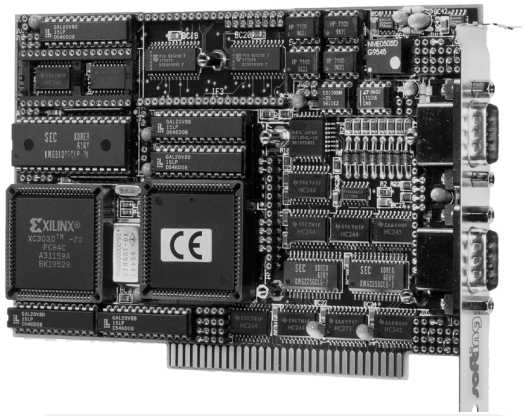
CAN

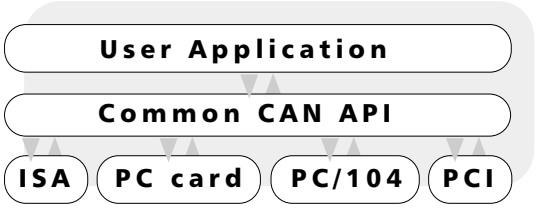
Application Controller CAN-AC1 / AC2

APPLICATION

The PC is increasingly being used for controlling, operating and visualizing automation and measurement applications. This often requires connection of external periphery via the CAN bus.

CAN-AC1 and CAN-AC2, featuring ISA (Industry Standard Architecture) bus technology, are suitable for easy and low-cost – but, nevertheless, powerful – interfacing of PC applications to CAN-based networks.





HARDWARE PROFILE

Because CAN-AC1 / AC2 is equipped with its own microcontroller, CAN data streams can be pre-processed and buffered, thereby relieving the PC significantly. As a result, the real-time requirements of PC applications are drastically reduced.

CAN-AC2 offers access to two independent, opto-isolated CAN networks. If only one CAN channel is required, CAN-AC1 is available as low-cost alternative.

DRIVER SUPPORT

Extensive driver libraries ranging from MS-DOS to Windows 9x and NT allow easy integration of CAN accesses in PC-based applications tuned to the requirements of the user.

Moreover, sample programs are available for integration in numerous off-the-shelf applications.

PROGRAMMING INTERFACE

Thanks to the Common CAN Application Programming Inteface (API), CAN-AC1 / AC2 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

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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	Separate network interfaces according to CAN specification 2.0 A with CAN Controller 82C200, optionally according to CAN specification 2.0 B with CAN controller 82527
Physical interfaces	Opto-isolated CAN high-speed interfaces in accordance with ISO 11898 up to 1Mbit/s or customer-specific via piggyback, D-sub 9-pin connectors according to CiA (CAN in Automation) standard
Microcontroller	NEC V25+, 20MHz ext.
Code/data memory	128-Kbyte SRAM
PC interface	ISA, 8-bit interface, 64-Kbyte DPRAM
PC memory area for DPRAM	16 Kbytes or 64 Kbytes in the address range D0000 to EFFFF (selectable)
PC interrupt	IRQ 3, 4, 5, 7, 9 or unused (polling)
Dimensions	Short PC plug-in board, 100 x 160 mm
Temperature range	Operation: 0...70 °C, storage: -65...120 °C
EMC	■ CE conformity according to EN 55022: 1994, class B and EN 50082-2:1995 (residential and industrial area) ■ FCC part 15, subpart B, limit B (residential and industrial area)

Software

Driver library CAN Layer 2	■ C library for Microsoft C and Borland C for MS-DOS V3.3 or later ■ 16-bit DLL for Windows 3.1x; 32-bit DLLs and drivers for Windows 9x or Windows NT

System requirements

IBM-compatible PC with ISA slot

Scope of delivery

- CAN-AC1 hardware (with 1 CAN bus connection)
- CAN-AC2 hardware (with 2 CAN bus connections)
- CAN-AC2 C library for MS-DOS V3.3 or later
- CAN-AC2 16-bit DLL for Windows 3.1x
- CAN-AC2 32-bit DLL and VxD driver for MS-Windows 9x
- CAN-AC2 32-bit DLL and Kernel Mode Driver for MS-Windows NT (only CAN-AC1N or CAN-AC2N)
- Sample software
- English user manual

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

Additional software

CANalyzer bus analysis software

Ordering information

■ CAN-AC1	(connection to 1 CAN network, without driver library for NT)
■ CAN-AC1N	(connection to 1 CAN network with driver library for NT)
■ CAN-AC2	(connection to 2 CAN networks, without driver library for NT)
■ CAN-AC2N	(connection to 2 CAN networks, with driver library for NT)
Optional:	
■ OPT-CAN-AC2/527	(CAN V2.0B with Intel 82527 for 29-bit extended identifiers)
■ OPT-CAN-AC2/ANA	(CAN protocol analysis logic for CANalyzer bus analysis software)

Edition 2.00

Please ask for more information and assistance

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