CAN-PCI/405
High Performance PCI-CAN-Interfaces

- 2 or 4 CAN interfaces
- PowerPC AMCC 405

PCI-PowerPC board

The CAN-PCI/405 is a PC board designed for the PCI bus. The AMCC PowerPC 405 operates at 200 MHz.
The board is equipped with 32 Mbyte SDRAM and 2 Mbyte Flash.
The CAN-PCI/405 uses PCI bus mastering to achieve high throughput and to relieve the main CPU.
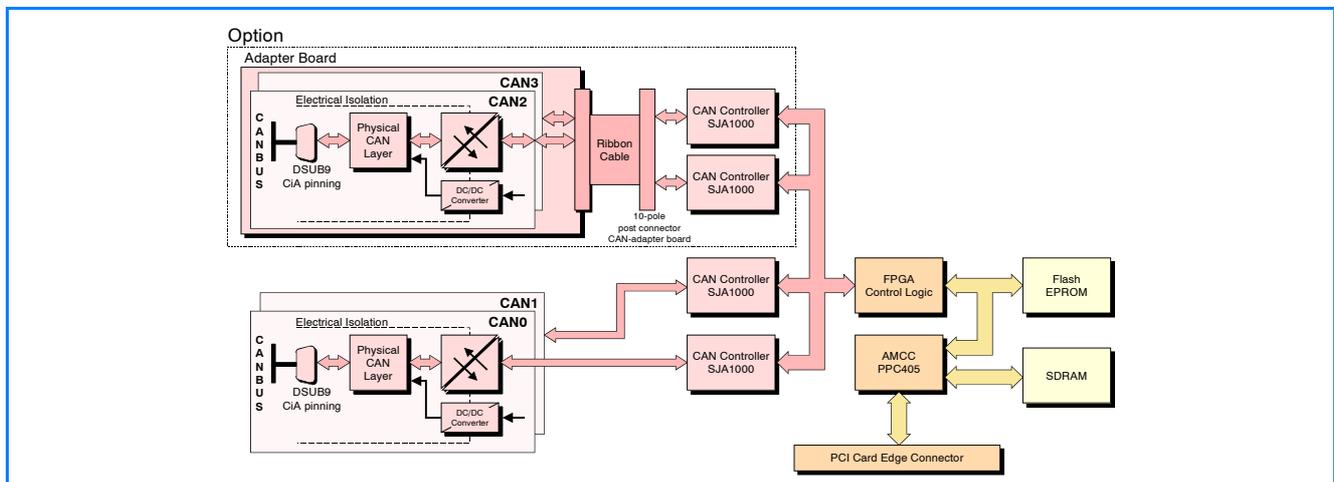
CAN Interfaces

The CAN-PCI/405 provides two ISO 11898 compliant CAN interfaces based on SJA1000 CAN controllers.
As an option the CAN-PCI/405 is available with two additional CAN interfaces that can be accessed via an adapter board.

The CAN interfaces allow a data transfer rate of 1 Mbit/s. The interfaces are electrically isolated.
The CAN-PCI/405 provides high resolution hardware timestamps.

Software Support

Software drivers are available for Windowws, Linux and SGI-IRIX6.5. Drivers for other operating systems are available as well. Please contact esd.
Higher Layer protocols are available for CANopen and DeviceNet.

Technical Specifications:

Microcontroller circuit:

Microcontroller:	AMCC PPC405, 200 MHz, 32 bit
Memory equipped:	32 MB SDRAM, 2 MB Flash EPROM

CAN interfaces:

Number:	2 (option: 4)
CAN controller:	SJA1000 (2, optional: 4), CAN 2.0A/B
Physical layer:	differential, electrically isolated, bit rate up to 1 Mbit/s, ISO11898, DSUB9 connector, optional DeviceNet
Hardware timestamps:	1µs resolution

PCI:

Specification:	PCI 2.2, Bus Master capable
Clock rate:	33/66 MHz
Bus width:	32 bit

General:

Ambient temperature:	0...50 ˚C
Humidity:	max. 90 %, non-condensing
Connectors:	CAN: 9-pole DSUB (male) DeviceNet-option: 5-pole Combicon style
Power supply:	3.3 V / 650 mA and 5 V / 250 mA

Order information:

Designation		order no.
CAN-PCI/405-2	IBM PPC405, 200 MHz, 32 MB SDRAM, 2 MB Flash, 2x CAN	C.2023.05
CAN-PCI/405-4	as C.2023.05, but 4 CAN interfaces (adapter inclusive)	C.2023.07
Options:		
CAN-DRV-LCD	Layer-2 driver software, object licence for Linux and Windows incl. CD-ROM	C.1101.02
CANopen-LIC	CANopen, object licence for Linux and Windows	C.1101.05
CAN-PCI/405-IRIX	IRIX 6.5 driver object licence	C.2023.27
CAN-PCI/405-ME	Hardware manual	C.2023.21
CAN-API-ME	CAN-API software manual	C.2001.21

Drivers for other operation systems on request.