

CAN-PCI/405

2 or 4 Channel PCI-CAN Interface (Layer 2, CANopen® or J1939)

2 or 4 CAN Interfaces via DSUB9 Plugs in the Slot Brackets

- High-speed CAN interfaces according to ISO11898-2, electrically isolated
- Optional adapter board with two CAN interfaces
- PCI interface according to PCI Local Bus Specification 2.2
- Bus master capable
- Software drivers for Windows® and Linux® included free of charge

Real-time OS Support and Higher Layer Protocols CANopen and J1939

- Software drivers for QNX®, RTX and On Time RTOS-32
- CANopen and J1939 protocol libraries are available
- Full compatibility with applications written for esd's NTCAN-API

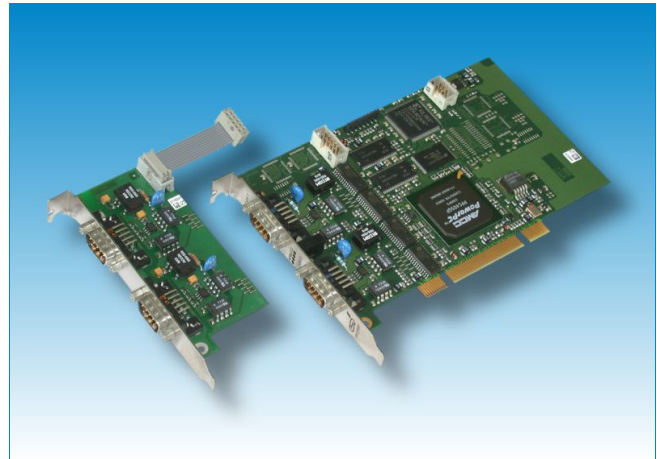
High Resolution Hardware Timestamps for CAN

PCI-PowerPC Board

The CAN-PCI/405 uses PCI bus mastering to achieve high throughput and to relieve the main CPU.

CAN Interfaces

The CAN-PCI/405-2 provides two ISO 11898-compliant CAN interfaces based on SJA1000 CAN controllers.
The CAN-PCI/405-4 offers two additional CAN interfaces located on 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.

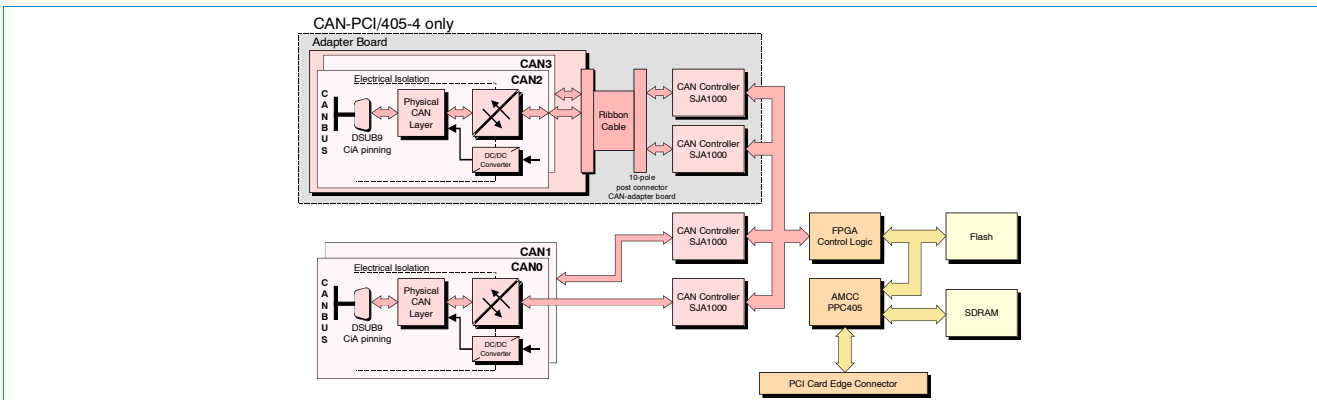


Software Support

Software drivers are available for Windows, Linux, QNX, RTX and On Time RTOS-32.

Libraries for the higher layer protocols CANopen and J1939 are available.

Additional free-of-charge esd CAN tools for Windows are downloadable from our website. The tools offer efficient setup and analysis of CAN applications and networks.



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), ISO11898-1
Physical layer	High speed CAN according to ISO11898-2, differential, electrically isolated, bit rate up to 1 Mbit/s, DSUB9 connectors
Hardware timestamps	1µs resolution
PCI:	
Specification	PCI 2.2, Bus Master capable
PCI Bus Voltage	'Universal Board', 3.3 V (5V tolerant)
Clock rate	33/66 MHz
Bus width	32 bit
General:	
Ambient temperature	0 °C ... +50 °C
Relative humidity	Max. 90 % (non-condensing)
Connectors	CAN: 9-pole DSUB (male)
Power supply	3.3 V / 650 mA and 5 V / 250 mA

Order Information:

Hardware	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

CAN layer 2 drivers for Windows and Linux are included in delivery.

Software Support

Real-time OS layer 2 object licences including CD-ROM ¹ :	
CAN-DRV-LCD QNX	C.1101.32
CAN-DRV LCD RTX	C.1101.35
CAN-DRV LCD OnTime-RTOS-32	C.1101.45
CANopen object licences including CD-ROM ¹ :	
CANopen-LCD Windows/Linux	C.1101.06
CANopen-LCD QNX	C.1101.17
CANopen-LCD RTX	C.1101.16
J1939 Stack object licences including CD-ROM ¹ :	
J1939 Stack for Windows (Object)	C.1130.10
J1939 Stack for Linux (Object)	C.1130.11
J1939 Stack for RTX (Object)	C.1130.12

¹ For detailed information about driver availability for your operating system please contact our sales team.