

# CAN-IB400/PCI



The Ixxat CAN-IB400/PCI is an active PCI interface card with two CAN channels and galvanic isolation. It is an easy, modular and very cost-efficient way to connect computers slot to a CAN bus network.

The active card has a modular design and can be expanded by fieldbus expansion boards to add up to four additional low-speed CAN, LIN and/or two high-speed CAN channels. Additionally, the high-speed CAN channels can be switched to low-speed CAN or LIN through software, providing highest flexibility for future requirements.

Galvanic isolation reliably enhances the protection of the device against damage to electronics caused by voltage peaks.

## FEATURES AND BENEFITS

- Active CAN interface card with powerful 32 bit microcontroller
- Easy expandable via field bus expansion board for low-speed CAN, LIN or up to four CAN high-speed channels
- 2 x CAN high-speed channels
- Galvanic isolation
- Common driver interface for easy exchange of the PC interface type
- Powerful programming interface for Windows (VCI) as well as for Linux (socketCAN or ECI), QNX and VxWorks (ECI)


<b>ORDER NUMBER</b>	<b>1.01.0293.22001</b>
CAN channels (high-speed)	2
CAN bus interface	2 x D-Sub 9, CiA standard pinning according to CiA 303-1
CAN bit rates	10 kbit/s to 1 Mbit/s (high-speed), 10 kbit/s to 125 kbit/s (low-speed, via optional fieldbus expansion)
CAN high-speed transceiver	TLE6250GV33
CAN low-speed transceiver	TJA1054, via optional fieldbus expansion
Galvanic isolation	1 kV DC for 1 sec.
CAN propagation delay (typical)	With galvanic isolation typical 6 ns, max. 10 ns
LIN transceiver	TJA1020T, via optional fieldbus expansion
PC bus interface	PCI (V2.2), 32 Bit, 33 MHz
PC address range/interrupts	Plug & Play
Microcontroller	32 bit

<b>ORDER NUMBER</b>	<b>1.01.0293.22001</b>
Power supply	Via PCI socket (3.3 V/5 V DC)
Power consumption	Typ. 3.3 V DC/500 mA; 5 V DC/100 mA
Dimensions	65 x 120 mm
Weight	Approx. 60 g
Operating temperature	0 °C to +70 °C
Storage temperature	-40 °C to +85 °C
Relative humidity	10 to 95 %, non-condensing
Certification	CE, FCC
Operating systems	Windows 11, Windows 10 (32/64), Windows 8 (32/64), Windows 7 (32/64), Linux

ACCESSORIES	ORDER NUMBER
Termination adapter for CAN/CAN FD (D-Sub male to female)	1.04.0075.03000
CAN cable 2.0 m (D-Sub male to female)	1.04.0076.00180
CAN Y cable 0.22 m	1.04.0076.00001
CAN Y cable 2.1 m	1.04.0076.00002

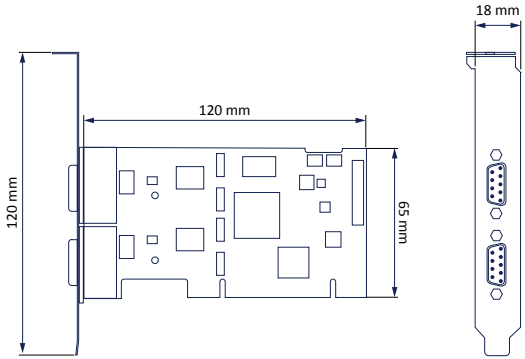
**PIN ALLOCATION**

**CAN CONNECTOR D-Sub 9**



Pin no.	Signal
7	CAN-High
2	CAN-Low
3	CAN-GND

**TECHNICAL DRAWING**



## SOFTWARE SUPPORT

### Drivers and programming interfaces

Comprehensive and powerful driver and software packages for the CAN-IB400/PCI series are available for free at [ixxat.com/support](http://ixxat.com/support). The driver packages can be downloaded for Windows (VCI - Virtual Communication Interface) and Linux (ECI), and are available on request for various real-time operating systems (INtime, RTX, Vxworks, QNX).

Using the Ixxat driver packages, customers can easily switch between the different PC interfaces offered by HMS. This would allow them to use USB, PCIe, Ethernet or other PC connections without changes to their application. The drivers support all protocols available on the interface with one API, so customers can easily access CAN, CAN FD and LIN simultaneously and get the data with a common time stamp.

### Software tools

The software tool canAnalyser3 Mini is included in the VCI V4 download package and enables the first analysis steps and monitoring in CAN networks. Further information about the tools as well as Demo/Trial versions are available on the Ixxat webpage.