

CAN-IB200/PCIe



The Ixxat CAN-IB200/PCIe is an active PCI Express interface card with two CAN channels and galvanic isolation. It is an easy and cost-efficient way to connect computers to a CAN bus network.

The active card has a modular design and can be expanded by additional modules to cover the entire range of field buses, such as CAN (ISO 11898-2), fault tolerant CAN (ISO 11898-3) and LIN, which gives 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 two CAN high-speed channels
- 2 x CAN channels
- Standard slot bracket
- 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)

ORDER NUMBER	1.01.0233.22001
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)
CAN bus termination resistors	None
CAN controller	Internal; CAN 2.0 A/B
CAN high-speed transceiver	SN65HVD251
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 express (V1.1), single lane port (x1)
PC address range/ Interrupts	Plug & Play
Power supply	Via PCIe socket (3.3 V DC)
Power consumption	Typ. 550 mA

ORDER NUMBER	1.01.0233.22001
Dimensions	64 x 105 mm
Weight	55 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

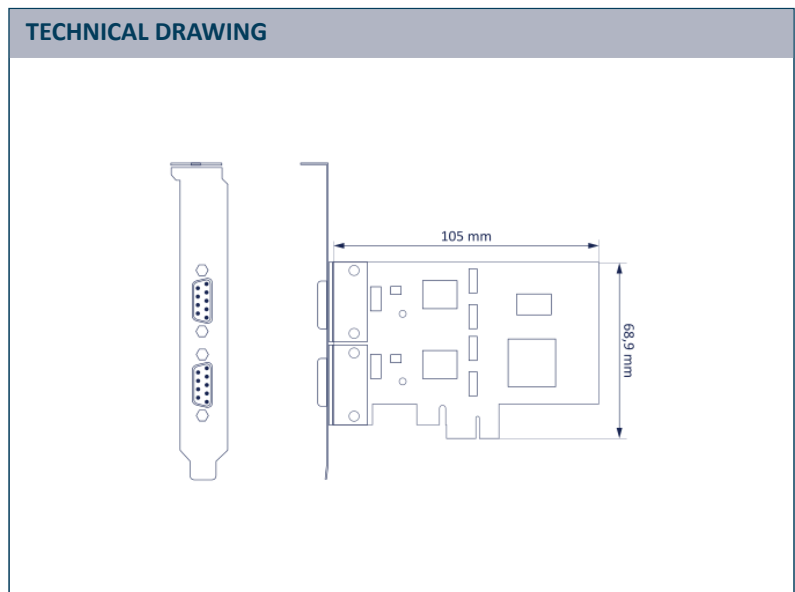


ACCESSORIES	ORDER NUMBER
Termination adapter for CAN/CAN FD (D-Sub male to female)	1.04.0075.03000
CAN cable 2.0 m (D-Sub male to female)	1.04.0076.00180
CAN Y cable 0.22 m	1.04.0076.00001
CAN Y cable 2.1 m	1.04.0076.00002

PIN ALLOCATION

CAN CONNECTOR D-Sub 9

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



SOFTWARE SUPPORT

Drivers and programming interfaces

A comprehensive and stable driver and software package is available for the USB-to-CAN V2 series, which can be downloaded free of charge from ixxat.com/support.

The Ixxat driver packages for Windows (VCI) as well as Linux, VxWorks and QNX (ECI) also enable use in existing applications without software adaptation. The APIs for CANopen and SAE J1939 also support the USB-to-CAN V2 device family.

The VCI V4 (Virtual Communication Interface) is the driver interface for Ixxat interfaces under Windows and can be downloaded free of charge from ixxat.com/vci or ixxat.com/support. Customer-specific applications for communication via CAN, CAN-FD, LIN and Industrial Ethernet can be developed on the basis of the VCI.

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.