

## Ixxat CAN-IB500/PCle

Item number: 1.01.0231.12010

The Ixxat CAN-IB500/PCle is a passive PCI Express interface card with one CAN/CAN FD channel and galvanic isolation. It is an easy and cost-efficient way to connect computers to a CAN/CAN FD bus network. Based on a modular design, the card enables simple integration into diverse industrial setups, supporting various CAN applications.



*PC interface card for CAN FD (1 x CAN FD), galv. isolated*

### Features and benefits

- ✓ **Passive CAN interface card**  
Direct access to CAN networks – suitable for applications where a straightforward, microcontroller-free connection is required.
- ✓ **PCle interface**  
Single-lane (1x) PCI Express interface supports high-speed data transmission, ideal for demanding industrial applications.
- ✓ **Switchable CAN/CAN FD channels**  
Equipped with switchable CAN/CAN FD channel to send and receive ISO CAN FD, non-ISO CAN FD or CAN2.0A/B messages, offering fast data transmission and high flexibility.
- ✓ **Modular architecture for easy expansion**  
Modern and modular concept enables easy extension with customer specific interfaces via expansion boards and piggyback modules.
- ✓ **Overvoltage protection**  
Galvanic isolation safeguards against overvoltage and protects from potential electrical damage.
- ✓ **Powerful programming interface**  
Ixxat offers versatile programming interfaces for Windows (VCI), Linux (ECI) and real-time OS (on request), enabling flexible development across multiple operating systems.
- ✓ **Cost-effective connectivity**  
Offers a cost-effective solution, delivering high performance at an economical price. Ideal choice for demanding applications, without having to compromise on quality.
- ✓ **Use in industrial and standard PCs**  
PC board with slot plate for fixed installation in desktop or industrial PCs, providing reliable connectivity.
- ✓ **Installation of multiple cards**  
Integration of multiple cards in one PC allows easy channel extension, making it suitable even for demanding settings like test benches and manufacturing plants.
- ✓ **Expandable low-speed CAN channel**  
Expansion boards for additional low-speed CAN channel supported – switchable through software.
- ✓ **Comprehensive driver compatibility**  
Ixxat VCI driver packages support multiple fieldbuses and allow easy switching between different PC interface types. Available as free download.
- ✓ **Analysis software included**  
Ixxat canAnalyser3 Mini is included in the VCI V4 download package and enables first steps in analyzing and monitoring CAN networks.



## General

Net Width (mm)	64
Net Height (mm)	105
Net Weight (g)	48
Packed Width (mm)	14
Packed Height (mm)	4
Packed Depth (mm)	18
Packed Weight (g)	193
Operating Temperature °C Min	0
Operating Temperature °C Max	70
Storage Temperature °C Min	-40
Storage Temperature °C Max	85
Relative Humidity	10 to 95 %, no condensation
Current Consumption Type Value at Vcc Nom (mA)	400 mA (3.3 V DC)
Current Consumption Max value at Vcc nom (mA)	550 mA (3.3 V DC)
Input Voltage (V)	3.3 V DC via PCIe socket
Power Connector	PCIe socket (3.3 V / 12 V DC)
Isolation	1 kV DC for 1 sec.
Content of Delivery	PC interface card, user manual, available as free download: CAN driver VCI, simple CAN monitor "canAnalyser Mini"
Not Included (in delivery)	Comprehensive and powerful driver and software packages are available as free download



## General

Mounting	PCI Express
Packaging Material	Cardboard
Warranty (years)	1

## Identification and Status

Product ID	1.01.0231.12010
Country of Origin	Germany
HS Code	8517620000
Dual Usage	No
Export Control Classification Number (ECCN)	EAR99

## Physical Features

Connectors / Input / Output	1 x D-Sub 9 connector, 1 x PCI express (V1.1), single lane port (x1)
Contains Battery	No

## CAN Features

CAN Mode	CAN high-speed (ISO 11898-2), via optional expansion: CAN low-speed (ISO 11898-3)
CAN Transceiver	TI SN65HVD251
CAN Controller	CAN 2.0 A/B
CAN Baud Rate	CAN high-speed: 10 kBit/s to 1 Mbit/s, via optional expansion: CAN low-speed: 10 kBit/s to 125 kBit/s

## CAN FD Features

CAN FD Mode	ISO CAN FD, nonISO CAN FD
CAN FD Baud Rate	Arbitration rate up to 1000 kBit/s, data rate up to 8000 kBit/s (verified by testing). User defined bit rates are possible.

## Certifications and Standards

ETIM Classification	EC000515
CE	Yes
FCC	Yes



## Certifications and Standards

TELEC	No
WEEE Category	IT and telecommunications equipment