Ixxat CAN-IB500/PCIe

Item number: 1.01.0231.12010

The Ixxat CAN-IB500/PCIe 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.

PCIe 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.

Ixxat CAN-IB500/PCIe

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

Ixxat CAN-IB500/PCIe

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

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

WEEE Category	IT and telecommunications equipment