Ixxat CAN-IB520/PCIe Mini



Item number: 1.01.0237.12010

The Ixxat CAN-IB520/PCIe Mini is a passive PCI Express Mini interface card with one CAN/CAN FD channel, galvanic isolation and a back-entry CAN socket. It is an easy and cost-efficient way to connect computers to a CAN/CAN FD bus network. Thanks to its compact dimensions, the card is especially suitable for applications with limited space.

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 Mini 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.

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.

Compact PCIe Mini form factor

With its PCIe Mini form factor, this variant is ideal for small devices and mobile applications with limited available space.

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.

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-IB520/PCIe Mini



General

Net Width (mm)	30
Net Height (mm)	51
Net Weight (g)	6
Packed Width (mm)	14
Packed Height (mm)	4
Packed Depth (mm)	18
Packed Weight (g)	154
Operating Temperature °C Min	-40
Operating Temperature °C Max	85
Storage Temperature °C Min	-40
Storage Temperature °C Max	85
Relative Humidity	10 to 95 %, non-condensing
Current Consumption Max value at Vcc nom (mA)	230 mA (3.3 V DC)
Input Voltage (V)	3.3 V DC via PCIe Mini socket
Isolation	1 kV DC for 1 sec.
Content of Delivery	PC interface card, user manual, CAN connection cable open style (20 cm, 03SUR-32S to SM03B-SURS-TF), 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
Mounting	Mini PCI Express
Packaging Material	Cardboard

Ixxat CAN-IB520/PCIe Mini



General

Warranty (years)	1

Identification and Status

Product ID	1.01.0237.12010
Country of Origin	Germany
HS Code	8517620000
Dual Usage	No
Export Control Classification Number (ECCN)	EAR99

Physical Features

Connectors / Input / Output	1 x CAN/CAN FD connector type SM03B-SURS-TF by JST, 1 x PCI Express Mini Base Specification (V1.1), single lane port (x1)
Contains Battery	No

CAN Features

CAN Mode	CAN high-speed (ISO 11898-2)
CAN Transceiver	TI SN65HVD230
CAN Controller	CAN 2.0 A/B
CAN Baud Rate	10 kBit/s to 1 Mbit/s

CAN FD Features

CAN FD Mode	ISO CAN FD, nonISO CAN FD
CAN FD Transceiver	TI SN65HVD230
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

CE	Yes
FCC	Yes
WEEE Category	IT and telecommunications equipment