



## Ixxat CAN-IB640/PCIe

Item number: 1.01.0245.42012

The CAN-IB640/PCIe is an active PCI Express interface card with galvanic isolation that offers four CAN/CAN FD channels and simultaneously four LIN channels. It is an easy and cost-efficient way to connect computers to a CAN bus network. Based on a modular design, the card enables simple integration, supporting various CAN applications.

*PC interface card for CAN FD and LIN (4 x CAN FD), galv. isolated*

### Features and benefits

- ✓ **Active CAN interface card**  
Fulfills even high requirements in data pre-processing, like precise on-board time-stamping and data filtering.
- ✓ **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.
- ✓ **PCIe interface**  
Single-lane (1x) PCI Express interface supports high-speed data transmission, ideal for demanding industrial applications.
- ✓ **Use in industrial and standard PCs**  
PC board with slot plate for fixed installation in desktop or industrial PCs, providing reliable connectivity.
- ✓ **Switchable CAN/CAN FD channels**  
Equipped with four switchable CAN/CAN FD channels to send and receive ISO CAN FD, non-ISO CAN FD or CAN2.0A/B messages, offering fast data transmission and high flexibility.
- ✓ **Dual D-Sub-9 CAN connectivity**  
All fieldbuses (CAN, CAN FD, LIN) are accessible via two D-Sub-9 connectors, offering many interface options in a space-saving format.
- ✓ **Standard slot bracket**  
Standard slot bracket size ensures compatibility with a wide range of PC systems.
- ✓ **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.
- ✓ **Overvoltage protection**  
Galvanic isolation safeguards against overvoltage and protects from potential electrical damage.
- ✓ **Comprehensive driver compatibility**  
Ixxat VCI driver packages support multiple fieldbuses and allow easy switching between different PC interface types. Available as free download.
- ✓ **Powerful programming interface**  
Ixxat canAnalyser3 Mini is included in the VCI V4 download package and enables first steps in analyzing and monitoring CAN networks.
- ✓ **Analysis software included**  
Ixxat canAnalyser3 Mini is included in the VCI V4 download package and enables first steps in analyzing and monitoring CAN networks.



## Identification and Status

Product ID	1.01.0245.42012
Country of Origin	Sweden
HS Code	8517620000
Export Control Classification Number (ECCN)	EAR99

## General

Net Width (mm)	69
Net Height (mm)	127
Net Weight (g)	200
Packed Width (mm)	17
Packed Height (mm)	4
Packed Depth (mm)	13
Packed Weight (g)	281
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)	500 mA
Input Voltage (V)	3.3 V DC via PCIe socket
Power Connector	PCIe socket (3.3 V / 12 V DC)



## General

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
Mounting	PCI Express
Packaging Material	Cardboard
Warranty (years)	1

## Physical Features

Connectors / Input / Output	2 x D-Sub 9 connector, 1 x PCI express (V1.1), single lane port (x1)
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## CAN Features

CAN Mode	CAN high-speed (ISO 11898-2)
CAN Transceiver	MCP2562FDT-ESW
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 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.

## LIN Features

LIN Mode	LIN (ISO 9141)
LIN Transceiver	MCP2003B-E/MC
LIN Baud Rate	up to 20 kBit/s

## Certifications and Standards

ETIM Classification	EC000515
WEEE Category	IT and telecommunications equipment