

## 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.
- ✓ **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 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.
- ✓ **Standard slot bracket**  
Standard slot bracket size ensures compatibility with a wide range of PC systems.
- ✓ **Overvoltage protection**  
Galvanic isolation safeguards against overvoltage and protects from potential electrical damage.
- ✓ **Powerful programming interface**  
Ixxat canAnalyser3 Mini is included in the VCI V4 download package and enables first steps in analyzing and monitoring CAN networks.
- ✓ **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.
- ✓ **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.
- ✓ **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**  
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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)
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



## General

Packaging Material	Cardboard
Warranty (years)	1

## Identification and Status

Product ID	1.01.0245.42012
Country of Origin	Sweden
HS Code	8517620000
Dual Usage	No
Export Control Classification Number (ECCN)	EAR99

## Physical Features

Connectors / Input / Output	2 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)
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
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## Certifications and Standards

CE	Yes
FCC	Yes
TELEC	No
WEEE Category	IT and telecommunications equipment