

CAN-IB640/PCIE

Active CAN FD Interface for PCI Express

4 x CAN FD/CAN (switchable), 4 x LIN

With the CAN-IB640/PCIE HMS offers a CAN FD interface board based on a modern and highly modular architecture concept. The interface is available with up to four CAN channels. Each channel can send and receive either CAN FD or CAN 2.0A/B messages. In addition four LIN channels are available.



FEATURES AND BENEFITS

- Active card with 32 bit microcontroller
- Four CAN channels (High-Speed CAN or CAN FD)
- Four LIN channels
- All fieldbuses accessible via two D-Sub-9 connections
- Single Lane (x1) PCI-Express-Interface
- Galvanic isolation of the CAN interface
- Common driver interface support for all Ixxat CAN and CAN FD interfaces allows easy change of the PC interface type
- Powerful programming interface for Windows "VCI" and "ECI" for Linux and VxWorks

The CAN-IB640/PCIE is an active interface board which fulfills even high requirements in data pre-processing, like intelligent data handling and active filtering of the received and transmitted messages.

TECHNICAL SPECIFICATIONS

PC bus interface	PCI Express base specification, Rev 1.1, single lane port (x1)
LIN bus voltage	-18 V to +50 V (short circuit proof)
VBATLIN	5.5 V to 30 V
Operating temperature range	0 °C to +70 °C
Storage temperature range	-40 °C to +85 °C
Galvanic isolation	1 kV, 1 sec.
relative humidity	10 % to 90 %, no condensation

CAN propagation delay	With electrical isolation typically 6 ns, max. 10 ns
CAN bit rates	CAN: 10 kbit/s to 1 Mbit/s
CAN FD bit rates	Arbitration rate up to 1000 kBit/s, data rate up to 8000 kbit/s. The data rates are verified by tests. User-defined bit rates are possible. Attention: The maximum data rate can be exceeded depending on the concrete operating conditions (cable length, settings made, remote stations,...), but it can also not be reached.
LIN bit rates	Up to 20 kbit/s
Power supply	Via PCIe socket (3.3 V DC)
Current consumption	Typ. 500 mA
Dimensions	64 x 127 mm
Weight	Approximately 69 g

CONTENTS OF DELIVERY




- PC/CAN interface card, manual
- CAN driver VCI for Windows 11, Windows 10 (32/64) / Windows 7 (32/64) (older versions on request)
- Simple CAN monitor "canAnalyser Mini"
- ECI driver can be downloaded from the webpage

File	Version	Size	Read online
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Order number

1.01.0245.42012	CAN-IB640/PCIe PC/CAN interface board
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Accessories

Product image	Type	Order number
	Sub-D9 Connector with CAN Termination	1.04.0075.03000
	CAN cable	1.04.0076.00180
	Y CAN cable	1.04.0076.00001
More accessories and detailed information...		

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