Ixxat®

BY HMS NETWORKS

CAN-IB600/PCIe

Active CAN FD Interface for PCI Express

1-2 x CAN FD, CAN (High-Speed), CAN (Low-Speed)

With the CAN-IB600/PCIe HMS offers a CAN FD interface based on a modern and highly modular architecture concept. The interface is available with up to two CAN channels. Each CAN channel can send and receive either CAN FD or CAN 2.0A/B messages. Using the optional expansion modules, the entire range of fieldbuses can be covered with one card – from CAN-FD (ISO as well as non-ISO format), CAN (ISO 11898-2), fault tolerant CAN (ISO 11898-3) to LIN.

FEATURES AND BENEFITS

- Active board with 32 bit microcontroller
- Up to two CAN channels (High-Speed CAN or CAN FD)
- Galvanic isolation of the CAN interface
- Common driver interface support all IXXAT CAN and CAN FD interfaces and allow easy change of the PC interface type
- Powerful programming interface for Windows "VCI" and "ECI" for Linux, QNX, RTX, INtime and VxWorks

The CAN-IB600/PCIe is an active interface which fulfills even high reqirements in data pre-processing, like intelligent data handling and active filtering of the received and transmitted messages.
If required, the number of CAN channels can be increased by using multiple CAN interfaces in one PC.

TECHNICAL SPECIFICATIONS

PC bus interface	PCI express (V1.1)
PC address range	Plug & Play
Interrupts	Plug & Play
Microcontroller	32 bit microcontroller
CAN interface	1 or 2 CAN channels; CAN FD or CAN 2.0 A/B; Sub-D9 plugs according to CiA 303-1, galvanic isolation (1 kV, 1 sec.)
CAN bitrates	10 kbit/s to 1 Mbit/s (high-speed) 10 kbit/s to 125 kbit/s (low-speed)

CAN FD bitrates	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.
Power supply	3.3 V DC, 400 mA typ.
Temperature range	0 ºC ... +70 ºC
Certification	CE, FCC
Size	Approx. 65 x 105 mm, available as standard version (low-profile version on request)

CONTENTS OF DELIVERY

- PC/CAN interface card, manual
- CAN driver VCI for Windows 11, Windows 10 (32/64) / Windows 8 (32/64) / Windows 7 (32/64) / Windows XP SP2 (older versions on request)
- Simple CAN monitor "canAnalyser Mini"

File	Version	Size	Read online

Order number

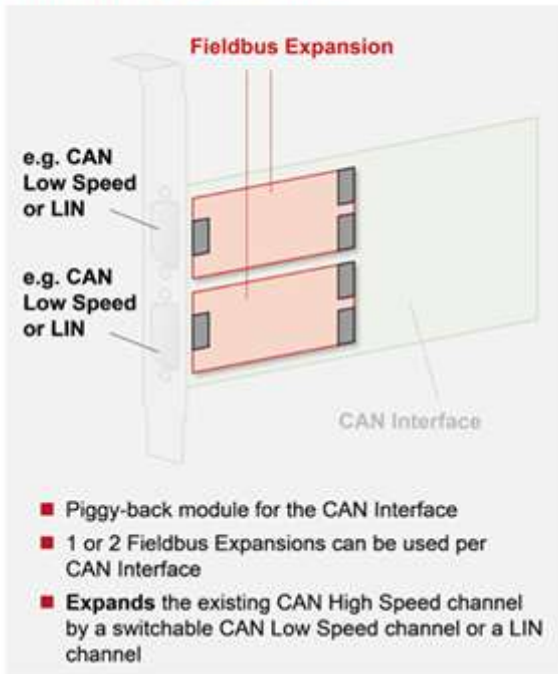| CAN FD ports	Galv. iso.	Order numbers	Optional expansions
1	X	**1.01.0233.12010**	**1 x Fieldbus Expansion** For variants and order numbers see table below
2	X	**1.01.0233.22010**	**1-2 x Fieldbus Expansion** For variants and order numbers see table below

Fieldbus Expansions

Type	Galv. iso.	Order numbers
CAN Low-Speed (ISO 11898-3)	X	**1.01.0241.20001**
LIN (ISO 9141), V Bat 8-48 V DC extern	X	**1.01.0241.20014**
CAN Low-Speed (ISO 11898-3) + LIN (ISO 9141)	X	**1.01.0241.20100**

Expansions

Fieldbus Expansion

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e.g. CAN Low Speed or LIN

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CAN Interface

- ■ Piggy-back module for the CAN Interface
- ■ 1 or 2 Fieldbus Expansions can be used per CAN Interface
- ■ **Expands** the existing CAN High Speed channel by a switchable CAN Low Speed channel or a LIN channel

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...		