

CAN-IB100/PCIe

Passive CAN Interface for PCI Express

1-4 x CAN (High-/Low-Speed)

With the CAN-IB100/PCIe HMS offers an interface board based on a modern and highly modular concept. The interface is available with a standard or a low-profile slot bracket.



FEATURES AND BENEFITS

- Economically priced passive card (no microprocessor on board)
- Easy expandable via field bus expansion and expansion board
- Up to four CAN channels (High-/Low-Speed optional switchable)
- Available as standard and low-profile version
- Optional galvanic isolation of the CAN interface
- Uniform driver packages support all IXXAT CAN and CAN-FD interfaces and allow easy change of the PC interface type
- Powerful programming interface for Windows "VCI" as well as "ECI" for Linux, QNX, RTX, INtime and VxWorks

VERSIONS

The CAN-IB100/PCIe is available with up to four CAN channels and can be delivered with galvanic isolated interfaces. For use in the automotive field the high-speed CAN channels can optionally be switched to low-speed CAN via software. Multiple CAN cards can be installed within one PC if more than four CAN channels are required. Furthermore, the modular architecture of the interface card enables the easy extension with customer specific interfaces via piggyback modules.

TECHNICAL SPECIFICATIONS

PC bus interface	PCI express (V1.1)
PC address range	Plug & Play
Interrupts	Plug & Play
CAN interface	1, 2 or 4 CAN interfaces; CAN 2.0 A/B; Sub-D9 plug according to CiA 303-1 Optional: CAN Low-Speed (switchable via software between CAN High-Speed and Low-Speed) Optional: Galvanic isolation (1 kV, 1 sec.)
Power supply	3.3 V DC, 350 mA typ.
Temperature range	0 °C ... +70 °C
Certification	CE, FCC
Size	Approx. 65 x 105 mm (available as standard and low-profile version)

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"

Order numbers

Standard Slot Bracket Version

CAN	Galv.	Order numbers	Optional expansions	Additional information
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ports	iso.			
1	-	1.01.0231.11000		
1	X	1.01.0231.12001	1 x 1.01.0241.20001 Low Speed CAN Fieldbus Expansion with galv. iso.	
2	-	1.01.0231.21000 *		
2	X	1.01.0231.22001	1-2 x 1.01.0241.20001 Low Speed CAN Fieldbus Expansion with galv. iso.	
4	X	1.01.0231.22001 + 1.01.0242.22000 Multi CAN Expansion		Two CAN ports on each SUB-D9 plug
4	X	1.01.0231.22001 + 1.01.0240.22103 CAN Expansion Board	1-4 x 1.01.0241.20001 Low Speed CAN Fieldbus Expansion with galv. iso.	Two slot bracket ports required

Low Profile Slot Bracket Version

CAN ports	Galv. iso.	Order numbers	Optional expansions	Additional information
1	X	1.01.0232.12001	1 x 1.01.0241.20001 Low Speed CAN Fieldbus Expansion with galv. iso.	
2	X	1.01.0232.22001 *	1-2 x 1.01.0241.20001 Low Speed CAN Fieldbus Expansion with galv. iso.	Two slot bracket ports required
4	X	1.01.0232.22001 * + 1.01.0242.00001 Multi CAN Expansion		Two CAN ports on each SUB-D9 plug Two slot bracket ports required
4	X	1.01.0232.22001 * + 1.01.0240.22203 CAN Expansion Board	1-4 x 1.01.0241.20001 Low Speed CAN Fieldbus Expansion with galv. iso.	Four slot bracket ports required

* this product variant is not recommended for new developments

Expansions

(click to enlarge)

CAN Expansion Board

Diagram Description: A green CAN Expansion Board is connected to a CAN Interface using a ribbon cable. The board provides four additional CAN channels, labeled CAN 1, CAN 2, CAN 3, and CAN 4.

- Connected to the CAN Interface using a ribbon cable
- Provides 2 additional CAN channels
- Supports "Field Bus Expansion" piggy-backs
- Available as standard and low profile slot bracketed version

Fieldbus Expansion

Diagram Description: Two red Fieldbus Expansion piggy-back modules are connected to a CAN Interface. They provide additional CAN channels, such as CAN Low Speed or LIN.

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

Multi CAN Expansion

Diagram Description: A blue Multi CAN Expansion piggy-back module is connected to a CAN Interface. It provides four additional CAN channels, labeled CAN 1, CAN 2, CAN 3, and CAN 4.

- Piggy-back module for the CAN Interface (can not be used with the CAN Expansion Board)
- Provides two **additional** CAN channels

Accessories

Type	Order number	Product image
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...		