

CAN-IB120/PCIe Mini



The Ixxat CAN-IB120/PCIe Mini is a passive PCI Express Mini interface card with two CAN channels and galvanic isolation. It is an easy and very cost-efficient way to connect computers to a CAN bus network. Thanks to its extremely compact dimensions, the card is especially suitable for applications with limited space.

Galvanic isolation reliably enhances the protection of the device against damage to electronics caused by voltage peaks.

The CAN socket is aligned to the end of the card for back entry.

FEATURES AND BENEFITS

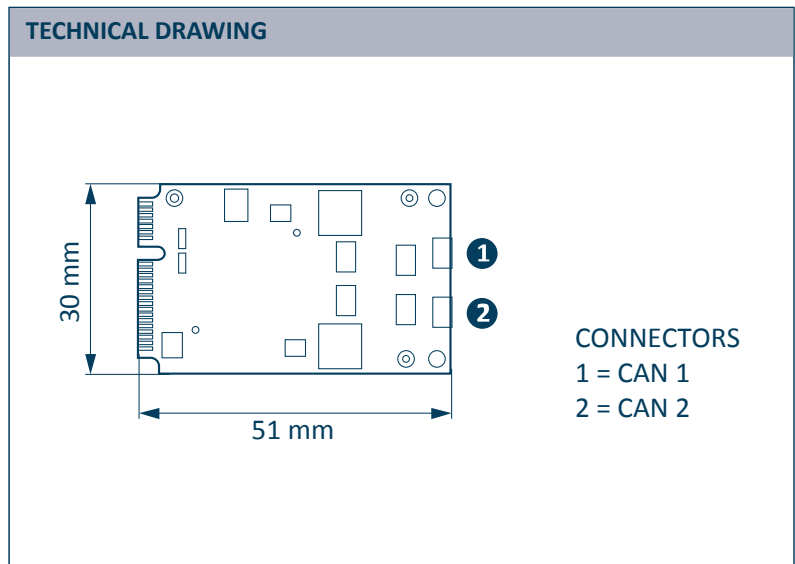
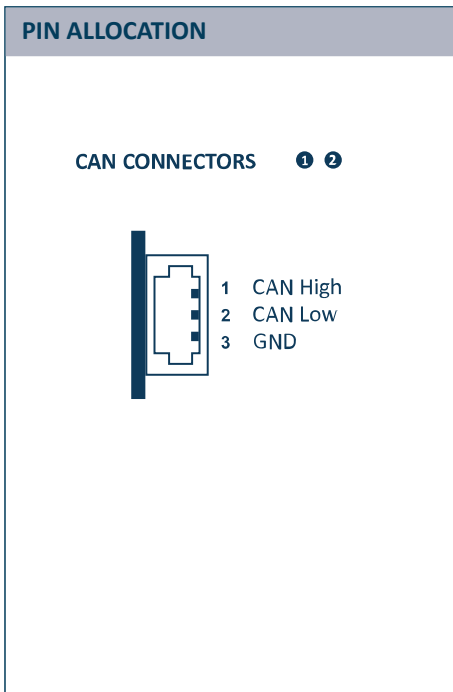
- Cost-effective, passive CAN interface card for PCI Express
- Extremely compact design
- 2 x CAN high-speed channels
- Single Lane (x1) PCI Express Interface
- Galvanic isolation
- Common driver interface for easy exchange of the PC interface type
- Powerful programming interface for Windows (VCI) as well as for Linux (socketCAN or ECI), QNX and VxWorks (ECI)

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|---------------------------------|---|
| ORDER NUMBER | 1.01.0237.22000 |
| CAN channels (high-speed) | 2 |
| CAN bus interface | SM03B-SURS-TF by JST |
| CAN bit rates | 10 kBit/s to 1 Mbit/s |
| CAN high-speed transceiver | SN65HVD230 |
| Galvanic isolation | 1 kV DC for 1 sec. |
| CAN propagation delay (typical) | With galvanic isolation typical 6 ns, max. 10 ns |
| PC bus interface | PCI Express Mini Base Specification, Rev 1.1, single lane port (x1) |
| PC address range/interrupts | Plug & Play |
| Power supply | 3.3 V DC (via PCIe Mini Card connector) |
| Power consumption | Max. 230 mA |
| Dimensions | 30 x 51 mm |
| Weight | Approx. 6 g |
| Operating temperature | -40 °C to +85 °C |
| Storage temperature | -40 °C to +85 °C |

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| ORDER NUMBER | 1.01.0237.22000 |
| Relative humidity | 10 % to 95 %, non-condensing |
| Certification | CE, FCC |
| Operating systems | Windows 11, Windows 10 (32/64), Windows 8 (32/64), Windows 7 (32/64), Linux |



| ACCESSORIES | ORDER NUMBER |
|---|---------------------|
| Termination adapter for CAN/CAN FD (D-Sub plug to socket) | 1.04.0075.03000 |
| CAN Y cable 0.22 m | 1.04.0076.00001 |
| CAN cable 2.0 m (D-Sub plug to socket) | 1.04.0076.00180 |



SOFTWARE SUPPORT

Drivers and programming interfaces

Comprehensive and powerful driver and software packages for the CAN-IB120/PCIe Mini series are available for free at ixxat.com/support. The driver packages can be downloaded for Windows (VCI - Virtual Communication Interface) and Linux (ECI), and are available on request for various real-time operating systems (INtime, RTX, Vxworks, QNX).

Using the Ixxat driver packages, customers can easily switch between the different PC interfaces offered by HMS. This would allow them to use USB, PCIe, Ethernet or other PC connections without changes to their application. The drivers support all protocols available on the interface with one API, so customers can easily access CAN, CAN FD and LIN simultaneously and get the data with a common time stamp.

Software tools

The software tool canAnalyser3 Mini is included in the VCI V4 download package and enables the first analysis steps and monitoring in CAN networks. Further information about the tools as well as Demo/Trial versions are available on the Ixxat webpage.