

Kvaser PC104+



Application Support

- AFT Marc I™
- ATI Vision™
- ATI Apollo™
- ATI CANlab™
- Ficosa CANica™
- Kvaser CanKing™
- National Instruments LabView™
- National Instruments DIAdem™
- VAT 2000™
- Warwick X-Analyser™
- Xtm™

Supported OS

- Windows Vista/XP/2000™
- Windows Server 2003™
- Linux

Product Versions

- Kvaser PC104+ HS/HS
- Support for Kvaser Linx

Compact and self-stacking, Kvaser PC104+ offers a dual channel CAN interface with a powerful onboard microcontroller and it complies with the flexible PC/104-Plus specification.

The Kvaser PC104+ board is an interface between the PCI bus of a PC/104-Plus system and the CAN bus. The powerful microcontroller enables accurate time stamping and high data throughput. The Kvaser PC104+ provides galvanic isolation and an extended temperature range, making it perfect for industrial applications in harsh environments.

Application Areas

The Kvaser PC104+ board is self-stacking and offers a compact and cost effective solution for embedded systems designers.

Excellent Software Support

The Kvaser CANlib Software Development Kit includes everything necessary to develop custom software using the Kvaser CANlib API, J2534 or RP1210. The Kvaser PC104+ is fully compatible with all higher layer protocols including J1939 and CANopen and conforms to both CAN 2.0A and CAN 2.0B specifications.

High Speed PCI bus

The PC/104-Plus specification establishes a standard for the use of a high speed PCI bus in embedded applications. The Kvaser PC104+ modules are self-stacking and do not require a card cage or other interconnect support. Additionally, the modules are also stackable with standard PC/104 modules.

Dual CAN Channels

Kvaser PC104+ offers two CAN channels with ISO 11898-2 compliant transceivers. The CAN bus driver stage is galvanically isolated to protect the hardware. No need for extra external power supply, the internal power supply system feeds the galvanic isolation.

Software and Documentation

The following software support and documentation is included:

- Kvaser CANlib SDK, which includes full documentation and many program samples written in C, C++, Delphi, Visual Basic, and C#
- Kvaser CAN interfaces and cards share a common API and programs written for one board type will run without modifications on the other board types
- RP1210 and J2534 API
- Driver support for Windows Vista/XP/2000/Server 2003 and Linux
- Kvaser CANKing, a free general-purpose CAN bus monitor program

Technical Data

Kvaser PC104+	
PC/104-Plus 2.0 compliant	x1 link
CAN interface	IDC Headers / DSUB
Stack-through connector	Yes
PC communication type	DPRAM
CAN controller	Renesas (M16C)
Onboard microcontroller	Yes
Onboard message buffer	Yes
Error frame detection and generation	Yes
Error counters reading	Yes
CAN 2.0 A and 2.0 B (active)	Yes
Silent Mode	Yes
Number of CAN channels	2
Supports bit rates up to 1 Mbit/s	Yes
Galvanic isolation	Yes
Temperature range	-40°C to +85°C
Plug-and-play installation	Yes
Dimension approx.	91 x 96 mm (3.6 x 3.8 in.)

The information herein is subject to change without notice

KVASER

Aminogatan 25
SE 431 53 Mölndal, Sweden

Telephone: +46 (0)31 88 63 44

Fax: +46 (0)31 88 63 43

E-mail: sales@kvaser.com

www.kvaser.com