

CAN-PC104/331

Intelligent PC/104-CAN Interface

Interface from PC to one or two independent CAN Nets

- Microcontroller 68331 on board
- PC/104 interface: IN/OUT FIFOs (512 bytes each), IRQ: 1 of 12 (like ISA/331)
- CAN controller SJA1000, ISO 11898-1
- CAN interfaces electrically isolated and designed acc. to ISO 11898-2
- Bit rate up to 1 Mbit/s
- Software drivers for Windows® and Linux® included free of charge

Real-time OS Support and Higher Layer Protocols CANopen and J1939

- Software drivers for QNX® and VxWorks®
- CANopen® and J1939 protocol libraries are available

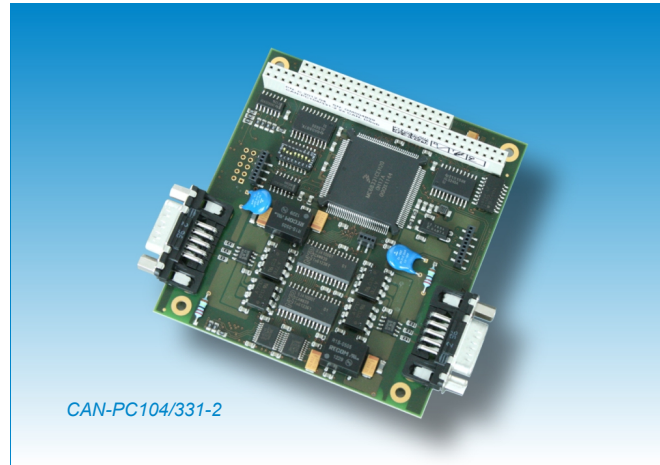
Optional CAN via Micro-Match Connectors

Powerful CAN Interfaces for PCs

The module CAN-PC104/331 is a 16-bits-plug-in board designed for the PC/104 bus. It uses a 68331 microcontroller, which cares for the local CAN data management. The CAN data is stored in the local SRAM. Security and consistency of data is guaranteed up to 1 Mbit/s.

CAN Interface

The ISO 11898 compliant CAN interfaces allow a data transfer rate of 1 Mbit/s. The CAN interfaces are electrically isolated from the other potentials by optocouplers and DC/DC converters.



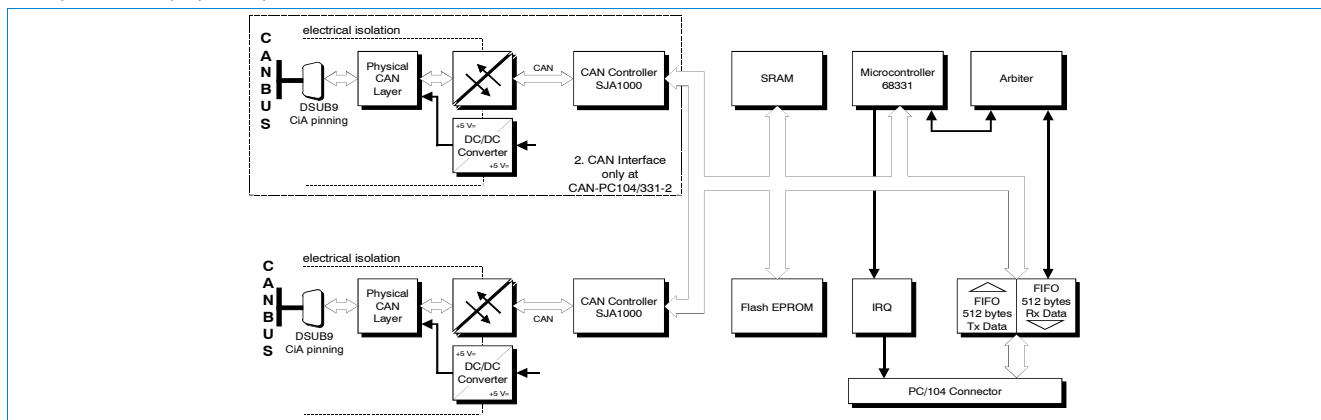
CAN-PC104/331-2

Software Support

CAN layer 2 (NTCAN-API) software drivers are available for Windows, Linux, VxWorks and QNX. The CANopen software package is available for Windows, Linux, VxWorks and QNX. Drivers for other operating systems are available on request.

The firmware can be loaded from the PC into the Flash EPROM.

(This product is in life cycle stage end-of-life.)



Technical Specifications:

PC/104 Interface and Microcontroller:	
PC/104 interface	Data: IN/OUT FIFOs (512 bytes each), IRQ: 1 of 12
Microcontroller	68331
Memory equipped	128 k x 16 bit SRAM, 128 k x 8 bit Flash EPROM
CAN:	
CAN controller	SJA1000, acc. to ISO 11898-1 (CAN 2.0 A/B)
CAN interface	1x or 2x interfaces according to ISO 11898-2, bit rate up to 1 Mbit/s, electrically isolated
General:	
Temperature	0...50 °C
Humidity	Max. 90 % non-condensing
Supply voltage	Via PC/104-bus, nominal voltage: 5 V ±5%, current (at 20°C): for 1x CAN: $I_{TYP_SV} = 0.55 A$ for 2x CAN: $I_{TYP_SV} = 0.70 A$
Connector	CAN: 9-pole DSUB (male) (C.2012.02, .04); Option: Micro-Match connector (C.2012.09)

Order Information:		
Hardware		Order No.
CAN-PC104/331-1	1x CAN, ISO11898, DSUB9	C.2012.02
CAN-PC104/331-2	2x CAN, ISO11898, DSUB9	C.2012.04
CAN-PC104/331-2	2x CAN, ISO11898, Micro-Match connectors	C.2012.09

Software Support	
CAN layer 2 drivers for Windows and Linux are included in delivery. Real-time OS CAN layer 2 object licences including CD-ROM ¹ :	
CAN-DRV-LCD VxWorks	C.1101.55
CAN-DRV LCD QNX	C.1101.32
CANopen object licences including CD-ROM ¹ :	
CANopen-LCD Windows/Linux	C.1101.06
CANopen-LCD VxWorks	C.1101.18
CANopen-LCD QNX	C.1101.17

J1939 stack for esd hardware including CD-ROM ¹ :	
J1939 stack for Windows (Object)	C.1130.10
J1939 stack for Linux (Object)	C.1130.11

¹ For detailed information about driver availability for your operating system please contact our sales team.