CAN-PC104/331
Intelligent PC104-CAN-Interface

esd gmbh

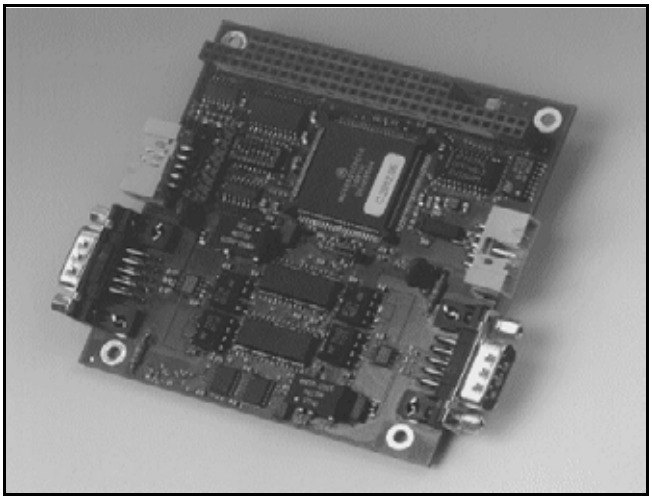
- interface from PC to one or two independent CAN nets
- microcontroller 68331 on board

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.

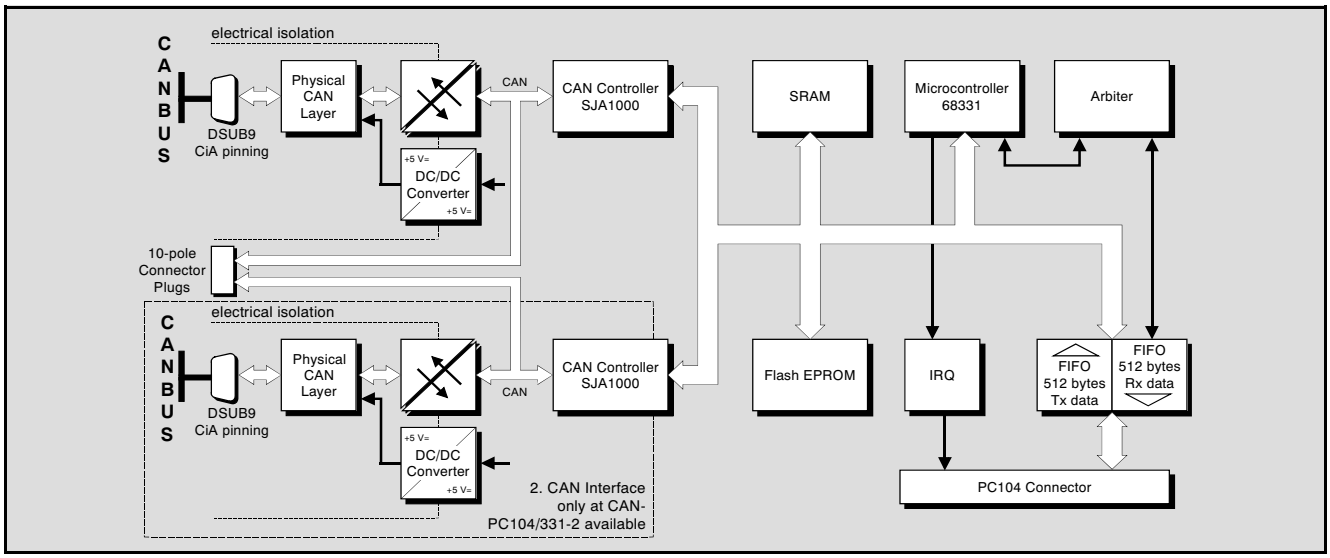
CAN Interface
The ISO 11898 compliant CAN interfaces allow a data transfer rate of 1 Mbit/s. The CAN interfaces are electrically isolated from the other potentials by optocouplers and DC/DC converters.

Software Support
The board is shipped with software examples in source code for DOS and Windows 3.11. Moreover, software drivers are available for Windows, Linux, VxWorks, LynxOS, QNX and Solaris. Drivers for other operating systems are available as well.

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



CAN Protocols and Real-time Operating System
Software packages for CAL, CANopen or DeviceNet are available for Windows NT, Windows 95/98 or UNIX systems.



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 bus:	
CAN controller:	*SJA1000, CAN 2.0A/B*
CAN interface:	*differential, electrically isolated, 1 Mbit/s, ISO11898, opt. DeviceNet*
General:	
Temperature:	*0...50 °C*
Humidity:	*max. 90 % non-condensing*
Supply voltage:	*5 VDC*
Connector:	*CAN: 9-pole DSUB (male)*

Order information:		
Designation		*order no.:*
CAN-PC104/331-1	*1x CAN, ISO11898*	*C.2012.02*
CAN-PC104/331-2	*2x CAN, ISO11898*	*C.2012.04*
Options:		
CAN-DRV-LCD	*Object licence for Windows and Linux, incl. CD-ROM*	*C.1101.02*
CAN-PC104/331-VxW	*VxWorks object licence*	*C.2012.55*
CAN-PC104/331-QNX4	*QNX4 object licence*	*C.2012.32*
CAN-PC104/331-Co	*CANopen master/slave object licence*	*C.2012.12*
CAN-PC104/331-ME	*Hardware manual*	*C.2012.21*
CAN-API-ME	*Software manuals for CAN-API and DOS-API*	*C.2001.21*
CAL/CANopen-ME	*CANopen manuals*	*C.2002.21*

esd electronic system design gmbh
Vahrenwalder Str. 205
D-30165 Hannover / Germany
Phone: +49-511-37298-0
Fax: +49-511-37298-198
E-Mail: info@esd-electronics.com