CAN-PC104/200
PC/104-Interface with three CAN-Controllers

esd gmbh

- low cost PC/104 to CAN interface
- easy to use for evaluation and starter kits

CAN Interface Board for PC/104
The module CAN-PC104/200 is a 8-bits-plug-in board designed for the PC/104 bus. It is equipped with the three major CAN controllers Intel 8257, Siemens 81C91 and Philips SJA1000, representing each the FULL or BASIC CAN operation mode, to meet the user's individual requirements.
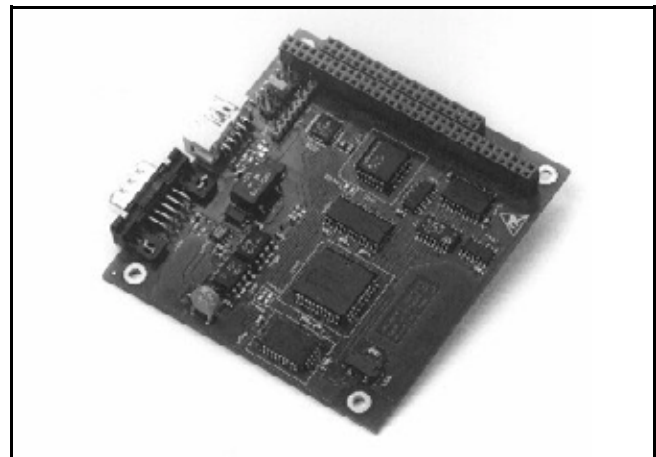
CAN Interface
The ISO 11898 compliant CAN interface allows a data transfer rate of 1 Mbit/s. The CAN interface is electrically isolated from the other potentials.
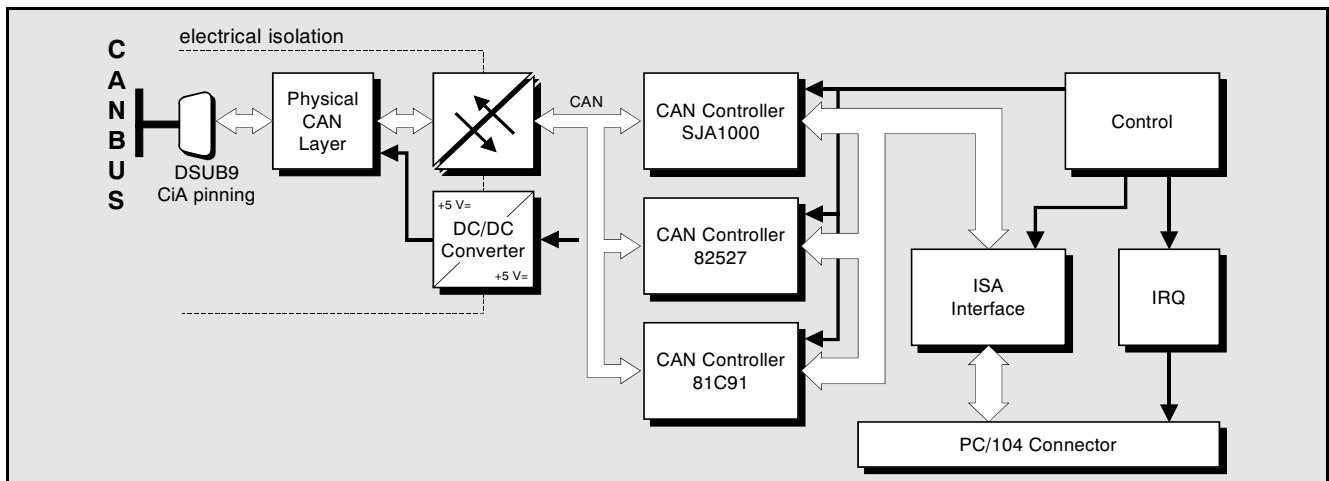
Real Time Software Support
The board is supported with VxWorks drivers for each CAN controller on CAN layer 2 access. Some C sample code for initialization, setting of the CAN baudrate and application oriented CAN read and write commands are included.

Other Software
Software drivers are available for Windows, Linux, VxWorks, Solaris and QNX. Drivers for other operating systems are available as well.

Like all low cost CAN boards there are restrictions in comfort and data reliability with the CAN-PC104/200 due to the simple design of these boards. A reception without data loss can not be guaranteed in these designs, because it depends on the bitrate, the performance and the operating system of the host CPU.

Technical Specifications:

PC/104 interface:	
PC/104 interface:	data: 8 bit, IRQ: 1 of 12

CAN bus:	
CAN controllers:	Philips SJA1000, Intel 82527 and Siemens 81C91
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) DeviceNet: 5-pole connector

Order information:		
Designation		order no.:
CAN-PC104/200-1	1x CAN, 3 controllers	C.2013.02
CAN-PC104/200-P	1x CAN, only Philips SJA1000	C.2013.04
CAN-PC104/200-I	1x CAN, only Intel 82527	C.2013.05
CAN-PC104/200-S	1x CAN, only Siemens 81C91	C.2013.06
CAN-DRV-LCD	Object licence for Windows and Linux, incl. CD-ROM	C.1101.02
CAN-PC104/200-VxW	VxWorks CAN-API object lic.	C.2013.55
CAN-PC104/200-QNX4	QNX4 CAN-API object lic.	C.2013.32
CAN-PC104/200-QNX6	QNX6 CAN-API object lic.	C.2013.33
CAN-PC104/200-Co	CANopen object licence	C.2013.12
CAN-PC104/200-ME	Hardware manual	C.2013.21
CAN-API-ME	Software manuals for CAN-API and DOS-API	C.2001.21
CAL/CANopen-ME	CANopen manuals	C.2002.21