



PC-104 CAN Interface CPC-104I

Special Features

- Active PC-104 based CAN interface with local preprocessing by integrated microcontroller
- One CAN channel, equipped with CAN controller NXP SJA1000
- Microcontroller Dallas DS80C320, 32kByte SRAM, 64kByte flash
- Firmware resident in flash, programmable within the system, adaption possible
- Driver for MS-DOS and Windows 3.1/95/98/NT/2000/XP available

Description

CPC-104I is a CAN interface module for PC-104 based systems with integrated microcontroller for the CAN bus. Designed for industrial series applications it has a robust and cost efficient construction. CPC-104I is available with galvanic separation and internal power supply of the CAN transceivers. Due to the internal buffering of CAN messages CPC-104I qualifies especially for use with operating systems where latencies are not exactly specified (e.g. MS Windows). The message oriented interface is designed in particular for applications, that have to capture a substantial part of the bus traffic, such as control and visualisation systems.

Alternatively to the operation with standard software provided with the delivered device CPC-104I also offers the possibility to execute application specific firmware. For special application needs, a 64kByte flash ROM and a 32kByte SRAM are provided. The on board microcontroller Dallas DS80C320, compatible with industrial standard 8051, but considerably more powerful, allows the use of existing knowledge and development tools for many users.

Technical Data

Bus Interface

Pin assignment	Connector D-Sub 9, complying to CiA DS-102
Type of the physical interface	ISO 11898 / Transceiver PCA82C251
Maximum voltage on bus pins	±30V referring to bus ground
Isolation voltage with galvanic separation	±500V DC

Configuration

The configuration of the used memory range and interrupt is done by jumper settings.

Ressource	Parameter
Base address	1536 Bytes in the range 0C0000h - 0DFFFFh, adjustable in steps of 1 kByte
Interrupt	One interrupt within the range of 3-7, 10-12, 14-15

Scope of Delivery

- CAN Interface CPC-104I
- User Manual
- proCANtool CAN Monitor for operating system Windows 2000/XP