NETWORKS
FIELDBUS

CP350

Intelligent CAN Controller for CompactPCI Applications



Single or Dual CompactPCI CAN Interface for Industrial Automation

- 32-bit CompactPCI board
- Up to 2 separate optoisolated CAN interfaces
- High-speed ISO 11898 interface supports baud rates up to 1MBaud
- On-board SAB C165 microcontroller and CAN SJA1000 communications processor
- Supports extended CAN protocol V2.0B
- 256 kByte on-board FLASH for local protocol handling
- Loadable protocol stacks
- Support of CAN/CANopen
- Windows NT® driver
- CE conformance

An industrial I/O module for CompactPCI-based systems incorporating the SJA1000 CAN protocol controller from Philips.

PCI INDUSTRIAL PICMG COMPUTERS

CERTIFIED DIN ISO 9001 QUALITY SYSTEM
Reg. No. 0548 - 02

Modular Computers®

Product Overview

CP350

Complying to the CANopen standard, PEP's CompactPCI CAN interface is designed to communicate actively with other master or slave systems such as PEP's VME9300, IUC9300, SMART2 or third party CAN-devices.

The CP350 CAN module supports master services of CANopen specified by the CiA (CAN in Automation Users Group) and is available with single or dual independent CAN interfaces enabling data traffic to be split on two distributed segments or for redundancy.

The heart of the CP350 is the SJA1000 CAN controller with its optoisolated ISO 11898 high-speed interface supporting baud rates of up to 1 MBaud and a dedicated SABC165 microcontroller.

The SABC165 microcontroller manages all higher level protocol stack handling of the fieldbus module such as CANopen thereby keeping all overhead off the CPU.

CompactPCI Interface

Compatible with CompactPCI specification v.2.1
32-bit/33 MHz
5.0V compatible
Interrupt level INTA support

Controller

Phillips SJA1000 supporting up to 1MBaud transfer rates
SAB C165 microcontroller clocked at 40MHz
256 kByte FLASH for local protocol handling

CAN

ISO11898 high-speed optoisolated interface
One or two separate CAN interfaces
CAN/CANopen
500V DC isolation between the controller and fieldbus interface

Software Support

Microsoft Windows NT
'C' Application Programming Interface

Common

Power Consumption:	1.5W (typ.) @ 5V DC
Dimensions:	100mm x 160mm (3U card size)
Temp. Ranges:	0ºC to +60ºC (standard)
	-25ºC to +75ºC (extended)
	-55ºC to +85ºC (storage)
Operating Humidity:	0% to 95% (non-condensing)
Weight:	158g

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Product	Description	Order No.
CP350-1CAN	Intelligent CAN controller for 3U CompactPCI deployment with one optoisolated CAN interface	17339
CP350-2CAN	Same as order number 17339 but with two optoisolated CAN interfaces	17340
KIT-CP350	CAN drivers and setup utilities for Windows NT with user's manual documentation in PDF format on 3.5" floppy disk	17622
WINNT-SWP	Windows NT software development package for CANopen applications	18123
MAN-CP350	Printed user's manual for the CP350	17530

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