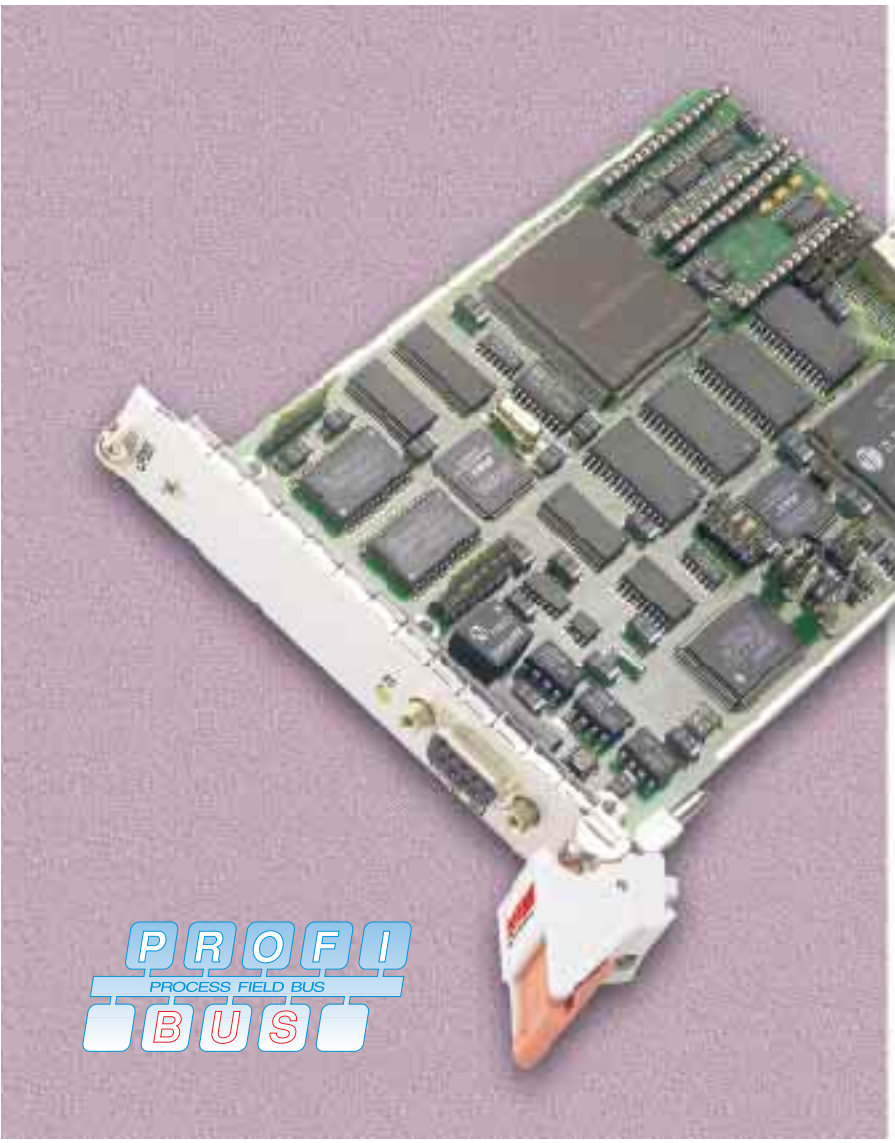
NETWORKS
FIELDBUS

CP351

Intelligent PROFIBUS Controller for CompactPCI Applications



Complete PROFIBUS Communication

- 32-bit CompactPCI board
- Powerful MC68360 processor for local PROFIBUS stack handling
- ASPC-2 PROFIBUS controller
- PROFIBUS FMS master/slave
- PROFIBUS DP master class 1 and 2
- 1 MByte on-board FLASH for local protocol handling
- Loadable protocol stacks
- PROFIBUS interface realized by 9-pin D-Sub connector
- Up to 12MBaud transfer rate
- Windows NT® driver
- CE conformance

An industrial PROFIBUS board for CompactPCI-based systems incorporating the Advanced ASPC-2 PROFIBUS Controller from Siemens and a powerful microcontroller for protocol stack handling.

PCI INDUSTRIAL PICMG COMPUTERS

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

PEP Modular Computers®

Product Overview

CP351

Built for ruggedness and system stability, PEP's CompactPCI PROFIBUS controller complies fully to the EN50170 standard, remains vendor independent and, in addition, features an OLE for process control (OPC) server for integration into HMI or SCADA applications for example.

The heart of the CP351 comprises a powerful microcontroller, the MC68360 and the ASPC-2 PROFIBUS controller, which provides a high-speed (up to 12 MBaud) PROFIBUS interface for FMS master and slave and DP master (class 1 and class 2) protocols.

While the ASPC-2 is responsible for PROFIBUS Layer 2 and most of the DP communication, the microcontroller handles the remaining protocol stack functions - especially in FMS mode. This intelligent concept ensures high data throughput and system performance while at the same time relieving the system CPU from these networking chores.

CompactPCI Interface

Compatible with CompactPCI specification v.2.1
32-bit/33 MHz
3.3V/5.0V compatible
Interrupt level INTA support

Characteristics

MC68360 microcontroller clocked at 25 MHz
Siemens ASPC-2 PROFIBUS controller
FMS master and slave, DP master (class 1 and 2)
1000 V optoisolation between the controller and fieldbus interface
1MByte FLASH
2MByte SRAM for communication tasks
256kByte SRAM for communication between 68360 and ASPC-2
Standard 9-pin D-Sub PROFIBUS connector according to EN50170

Software Support

Microsoft NT
'C' Application Programming Interface
OPC server available on request

Common

Power Consumption:	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:	171g

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Product	Description	Order No.
CP351	Single-height CompactPCI PROFIBUS FMS (master/slave), DP master (class 1 &2) and FDL board comprising MC68360 and ASPC-2 controller	**17871**
KIT-CP351	Drivers and setup utilities for Windows NT with user's manual documentation in PDF format on 3.5" floppy disk	**18126**
WINNT-SWP	Windows NT software development package for FMS, DP and FDL applications	**18124**
MAN-CP351	Printed user's manual for the CP351	**18128**

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