CP353
Advanced PROFIBUS Controller for Fieldbus Applications

Introduction

➤ 32-bit CompactPCI board
➤ Highly integrated EC-1 ASIC with Siemens ASPC2 Profibus technology
➤ PROFIBUS DP V1 Master (class 1 and 2) or Slave
➤ Standard interface with 9-pin D-Sub connector
➤ Diagnosis interface RS232
➤ Up to 12 Mbaud transfer rate
➤ Easy to use software user interface
➤ From the leading manufacturer of fieldbus modules; Hilscher Gesellschaft für Systemautomation mbH
➤ Equivalent to Hilscher CIF-80PB

Advanced industrial PROFIBUS controller powered by the high performance communications System on Chip EC-1.
Product Overview

CP353

Built for use in rugged industrial environments, the CP353 fully complies to the EN50170 standard. It features the versatile communications System on Chip EC-1, combining a powerful microprocessor with on-chip memory and all the required communication peripherals.

The comprehensive feature set of the integrated System on Chip, EC-1, comprises a powerful Turbo 186 CPU and a Siemens ASPC-2 controller providing a high-speed Profibus interface for DP V1 master (class 1 and 2) and slave applications. All standard baud rates up to 12 MB are supported, whereby the onboard computing power fully releases the host CPU of handling the protocol stack. This intelligent concept ensures high system performance and data throughput.

The Application Programming Interface (API) is based on an easy to use dual ported memory interface ensuring the same programming for all supported operating systems. Configuration of a Profibus network is an easy task using the system configurator: SyCon-PB®.

Compact PCI Interface

<table>
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<tr>
<th>Characteristic</th>
<th>Specification</th>
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<tbody>
<tr>
<td>PICMG 2.0 Rev. 3.0 compliant</td>
<td>32 bit/33 MHz</td>
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<tr>
<td></td>
<td>3.3/5.0 V compatible</td>
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Characteristics

High performance communication System on Chip (SoC), EC-1, integrating Siemens ASPC-2 technology.

Profibus DP V1 master (class 1 and 2) or slave.

Optoisolation between the controller and the fieldbus interface.

9.6 kbaud to 12 Mbaud transfer rate.

Software Support

- Microsoft Windows® NT4.0
- Linux
- OPC Server
- Profibus system configurator: SyCon-PB®

Common

- Front panel: Standard 9-pin D-Sub Profibus connector compliant with EN50170
- 9-pin D-Sub RS232 diagnosis interface
- Power Cons.: 0.5 W (typ.) 5 V DC
- 1.65 W (typ.) 3.3 V DC
- Dimensions: 100 mm x 160 mm (3U card size)
- Temp. Ranges: 0 °C to +60 °C (standard)
- -25 °C to +70 °C (storage)
- Oper. Humidity: 0 % to 95 % (non-condensing)
- Weight: 130 g

Product Overview Table

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Order No.</th>
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<tbody>
<tr>
<td>CF353</td>
<td>CompactPCI Profibus DV V1 master (class 1/2) and slave module, with docu and drivers</td>
<td>24083</td>
</tr>
<tr>
<td>WNT-SYCON-PB</td>
<td>System configurator software for Profibus networks for Windows 95/98/NT</td>
<td>24128</td>
</tr>
<tr>
<td>WNT-OPC-FB</td>
<td>OPC server for Windows 95/98/NT</td>
<td>24129</td>
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<td>CABLE-DIAG</td>
<td>RS232 cable, CP353 diagnose interface – PC</td>
<td>24131</td>
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</table>

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