CANpro PCI Express

Universal PCI Express Boards with On-Board Microcontroller

- Single and dual channel interface boards in PCI Express format for use in CAN and CANopen networks.

Flexible Interface for Industrial and Embedded PCs

- Data exchange between PC applications and connected CAN bus
- Available in single and dual channel versions
- Universal solution matching almost any CAN application
- Utilization e.g. in machine controllers, PC-based applications or test rigs

Application in a Wide Variety of Target Systems

- Usage in Windows operating systems
- Linux driver
- Sample projects for C, C# or VB.NET with commented source code

Rapid Integration With the Right Software Interface

- Flexible API including FIFO storage buffering all sent and received messages, separated for each channel
- No data loss when computer working on other tasks
- Filtering and buffering of messages of interest
- Automatic transmission of data to bus in exact, individually configurable cycles
- Free CANopen Client API available for use in CANopen networks
## CANpro PCI Express

### Technical Data

#### CAN Protocol and Available APIs

<table>
<thead>
<tr>
<th></th>
<th>Single Channel</th>
<th>Dual Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAN V2.0 (11/29 Bit IDs)</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>CAN API</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>CANopen Client API</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>

#### CAN Bus Connection

<table>
<thead>
<tr>
<th></th>
<th>Single Channel</th>
<th>Dual Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connector</td>
<td>9-pin D-sub male</td>
<td>ISO 11898-2 (CAN High Speed)</td>
</tr>
<tr>
<td>No. of Channels</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Galvanically Isolated</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Physical Layer</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### PC Interface

- PCI Express x1 According to PCIe r1.0a and CEM 1.1, 512 KB Shared RAM per Channel
- Plug-and-Play

#### Interrupts

- Plug-and-Play

#### Operating Temperature

- 0 °C ... +70 °C

#### Storage Temperature

- -20 °C ... +70 °C

#### Relative Humidity

- < 90 %, non-condensing

#### Dimensions

- 168 mm x 69 mm (Single Channel)
- 168 mm x 103 mm (Dual Channel)

#### Power supply

<table>
<thead>
<tr>
<th></th>
<th>Single Channel</th>
<th>Dual Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply voltage</td>
<td>3.3VDC / 12VDC (± 5 %)</td>
<td>3.3VDC / 12VDC (± 5 %)</td>
</tr>
<tr>
<td>Current consumption</td>
<td>Typically 500 mA / 60 mA</td>
<td>Typically 500 mA / 90 mA</td>
</tr>
</tbody>
</table>

#### Drivers available for

- Windows XP, Windows 7, Windows 8, Windows 10, Linux

#### Conformity

- CE
- FCC
- RCM

1. Also available with low profile slot bracket

### Scope of Delivery

- **Hardware**: PC interface board
- **Software**: Drivers, APIs, sample programs on CD-ROM
- **Documentation**: On CD-ROM

### Order Numbers

- CAN-PRO1-PCIE: Single Channel
- CAN-PRO1-PCIE/LP: Single Channel, Low Profile
- CAN-PRO2-PCIE: Dual Channel

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**Your local Softing contact:**

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