3U Digital-In/Out Board

» **Act Efficiently**
  Wide range of application fields through input and output channels.

» **Stay Safe**
  Secure your application by benefiting of effective protection features.

» **Live Comfortably**
  Convenient handling through common user interface and plug and play.
Applications demanding both digital input nodes and digital output nodes require not only a cost-effective solution, but also ease of implementation. Still offering all necessary features, the CP383 completely fulfills these tasks.

» Act Efficiently
Providing the possibility of 16 channels digital in and 16 channels digital out, in combination with the ability to work under the toughest conditions (-40°C up to +85°C), the CP383 is the right choice for a wide range of application fields.

» Stay Safe
Reliability is indispensable in an application. The CP383 secures the system with quite a few protection features, such as overtemperature, undervoltage and overcurrent on the digital output side and inverse polarity protection on the digital input side. The isolation to the system rounds the security features off.

» Live Comfortably
Easy generation of a CompactPCI I/O application is also very much in demand nowadays. Therefore all I/O nodes are controlled by a unified API. One node known - all nodes known. Simple connectivity is provided by offering accessories such as a cable, or an adapterbox.

**Technical Information**

<table>
<thead>
<tr>
<th>Compact PCI Interface</th>
<th>PCI target interface with FPGA, PICMG 2.0 Rev. 3.0, 32 Bit/33 MHz, 1 BAR, 64 KB memory space, non-prefetchable, universal signalling voltage (3.3V), serial EEPROM interface</th>
</tr>
</thead>
</table>
| Digital Inputs        | Number of Channels: 16  
Input Voltage Range: Low: -3V..+5V, High: +11V..+30V  
Input Current: max. 5mA  
Input Protection (ESD): 8 kV  
Input Impedance: min.: 1.5 KΩ, max.: 6 KΩ@30V  
Input Filter: 10 kHz (edge frequency)  
Debouncing: Programmable  
Miscellaneous: Inverse Polarity Protection, Event Detection, Input Capture and Compare |
| Digital Outputs       | Number of Channels: 16  
Output Current max.: max. 500 mA per channel  
Switch Delay: ON/OFF: 20µs  
External Voltage: 9.5 V..35 V  
Utility Signals: Reset (low active), Diagnose (low active)  
Protection: Overtemperature (thermal shutdown @ 150°C)  
Undervoltage (below 8.5 V)  
Overcurrent (max. 1.2 A) |
| Software Support      | Windows®XP, Windows®2000, Windows®XP Embedded, VxWorks®, Linux® |
| Common                | Isolation: 2kV to system  
Dimensions: 100 mm x 160 mm (3U card size)  
Temperature Ranges: 0°C to + 60°C (standard)  
-40°C to +85°C (extended)  
-55°C to +100°C (storage)  
Climatic Humidity: non-condensing 93% at 40°C acc. to IEC 60068-2-78  
Weight: 170 g  
MTBF: 424,549 h acc. to MIL-HDBK-217 FN2 |
## Ordering Information

<table>
<thead>
<tr>
<th>Article</th>
<th>Order-No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP383</td>
<td>27432</td>
<td>16 channels digital in, 16 channels digital out</td>
</tr>
<tr>
<td>CP383-E2</td>
<td>27433</td>
<td>16 channels digital in, 16 channels digital out, extended temperature range E2: -40°C to +85°C</td>
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<tr>
<td>CP-ADAP-IO</td>
<td>25736</td>
<td>Cable and box for CPCI I/O products, 62 pin DSUB on 62 single channels</td>
</tr>
<tr>
<td>LIN-DRV-CP383(1)</td>
<td>27732</td>
<td>Linux® Driver, CP383 User’s Manual</td>
</tr>
</tbody>
</table>

(1) Free of charge downloadable from the Internet