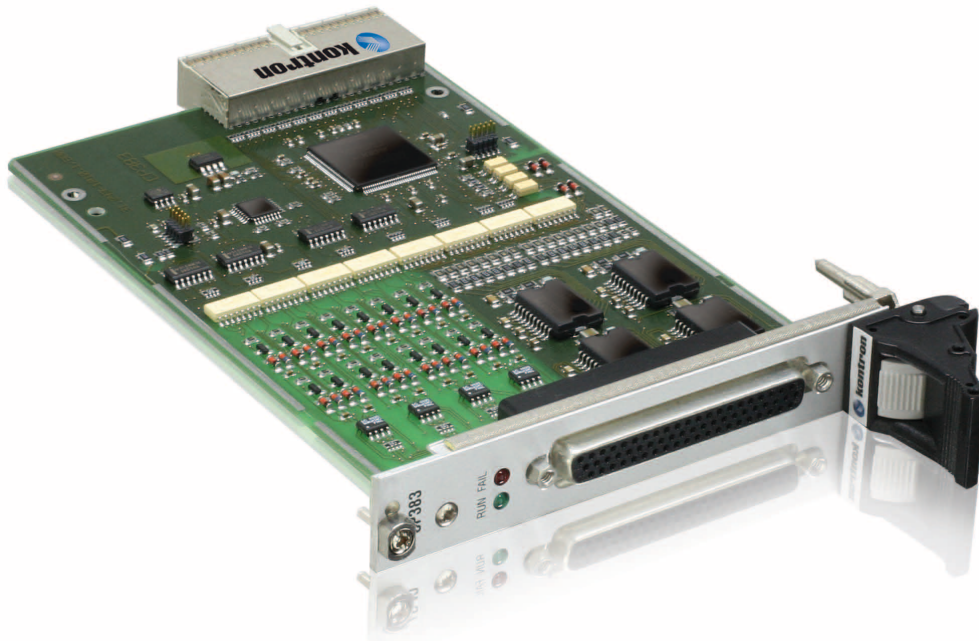


» CP383 «



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

Compact PCI Interface

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

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

| Article | Order-No. | Description |
|------------------------------------|-----------|--|
| CP383 | 27432 | 16 channels digital in, 16 channels digital out |
| CP383-E2 | 27433 | 16 channels digital in, 16 channels digital out, extended temperature range E2: -40°C to +85°C |
| CP-ADAP-IO | 25736 | Cable and box for CPCI I/O products, 62 pin DSUB on 62 single channels |
| KIT-CP383¹⁾ | 27730 | Windows®2000 and Windows®XP Board Support Package, CP383 User's Manual |
| VXW-DRV-CP383 | 27731 | VxWorks®6.6 Driver, CP383 User's Manual |
| LIN-DRV-CP383¹⁾ | 27732 | Linux® Driver, CP383 User's Manual |
| WXPE-BSP-CP383¹⁾ | 1022-5154 | Windows®XP embedded Board Support Package, CP383 User's Manual |

¹⁾ Free of charge downloadable from the Internet

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