

# ➤ **CP384**

## **3U Digital-In/Relay Out Board**



# CompactPCI

- **Act Efficiently**  
Wide range of application fields through input and relay 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.

## Product Overview

Applications demanding both digital input nodes and relay output nodes require not only a cost-effective solution, but also ease of implementation. Still offering all necessary features, the CP384 completely fulfills these tasks.

### Act Efficiently

Providing the possibility of 16 channels digital in and 8 relay channels, in combination with the ability to work under the toughest conditions (-40°C up to +85°C), the CP384 is the right choice for a wide range of application fields.

### Stay Safe

Reliability is indispensable in an application. The CP384 secures the system with quite a few protection features, such as 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 software API. One node known - all nodes known. Simple connectivity is provided by offering accessories such as a cable, or an adapterbox.

### Compact PCI Interface

PCI Target Interface with FPGA, PICMG 2.0 Rev. 2.1 compliant, Support of CompactPCIbus on connector P1, 32 Bit address/data/33 MHz, 1 BAR, 64 KB memory space, non-prefetchable, Universal signaling voltage (3.3V), Serial EEPROM interface, PCI transfer rate up to 132 MB/sec.

### 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 K $\Omega$ , max.: 6 K $\Omega$  @ 30V  
 Input Filter: 10 kHz (edge frequency)  
 Debouncing: Programmable  
 Inverse Polarity Protection, Event Detection, Input Capture and Compare

### Digital Outputs

Number of Channels: 8  
 Output Current max.: Relay contact / max. 2A per channel  
 R<sub>son</sub> Resistance: tbd  $\Omega$  (on-state resistance)  
 Switch Delay: ON/OFF: tbd  $\mu$ s  
 Supply: max 30 VDC  
 Utility Signals: Reset (low active), Diagnose (low active)  
 Protection: tbd

### Software Support

Windows®XP, Windows®2000, Windows®NT, VxWorks®, Linux®

### Common

Isolation: 2kV to system  
 Dimensions: 100 mm x 160 mm (3U card size)  
 Temperature Ranges: 0° C to +70° 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: 210 g  
 MTBF: tbd h acc. to MIL-HDBK-217F2

## Ordering Information

Product	Description	Order No.
CP384	16 channels digital in, 8 channels relay out	29203
CP384-E2	16 channels digital in, 8 channels relay out, extended temperature range E2: -40° C to +85° C	tbd
CP-ADAP-IO	Cable and box for CPCI I/O products, 62 pin DSUB on 62 single channels	25736
KIT-CP383	Documentation and Windows® driver kit on CD-R 1	27730
VXW-DRV-CP383	VxWorks driver CP383 for Tornado V. 2.2	27731
LIN-DRV-CP383	Linux driver CP383	27732
	1) KIT-CP383 free of charge downloadable from the Internet	

## Corporate Offices

### US/ Canada

14118 Stowe Drive  
 Poway, CA 92064 7147  
 Tel.: +1 (0)888-294-4558  
 Fax: +1 (0)888-677-0898

sales@us.kontron.com

### Europe, Middle East and Africa

Oskar-von-Miller-Straße 1  
 85386 Eching/Munich Germany  
 Tel.: +49 (0)8165-770  
 Fax: +49 (0)8165-77219

sales@kontron.com

### Asia Pacific

2F, No. 2, Lane 50, Nankang Rd.,  
 Nankang District, Taipei, 115 Taiwan  
 Tel.: +886-2-2782 0201  
 Fax: +886-2-2782 7486

sales@kontron-asia.com

### Kontron Modular Computers GmbH

Sudetenstr. 7  
 D-87600 Kaufbeuren  
 Tel.: +49 (0) 8341 803 0  
 Fax: +49 (0) 8341 803 499

sales@kontron.com

Our worldwide sales representatives and partners can be found on our websites.