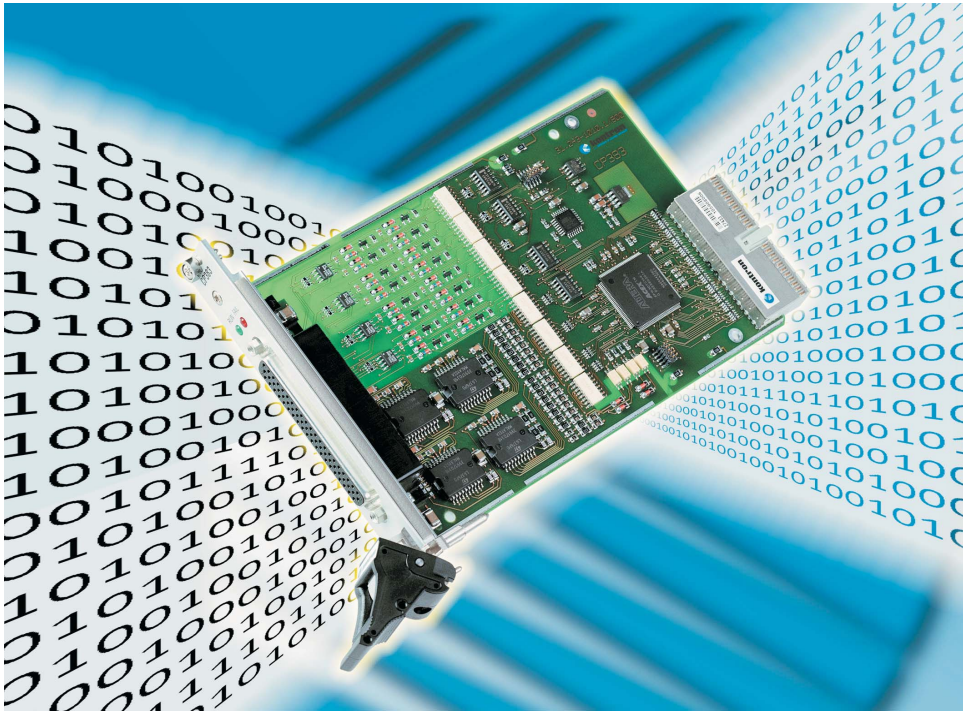# ➤ CP383
3U Digital-In/Out Board

CompactPCI

➤ 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.

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... always a Jump ahead!

➤ Product Overview

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.

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 KΩ, max.: 6 KΩ @ 30V
Input Filter:	10 kHz (edge frequency)
Debouncing:	Programmable

Inverse Polarity Protection, Event Detection, Input Capture and Compare

Digital Outputs

Number of Channels:	16
Output Current max.:	max. 500 mA per channel
Rdson Resistance:	avg. 2Ω (on-state resistance)
Switch Delay:	ON/OFF: 20µs
Supply:	9,5 V..35 V
Utility Signals:	Reset (low active), Diagnose (low active)
Protection:	Overtemperature (thermal shutdown @ 150°C) Undervoltage (upper threshold: 9,5 V) Overcurrent (max. 1,2 A)

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:	170 g
MTBF:	424,549 h acc. to MIL-HDBK-217F2

➤ Ordering Information

Product	Description	Order No.
CP383	16 channels digital in, 16 channels digital out	27432
CP383-E2	16 channels digital in, 16 channels digital out, extended temperature range E2: -40° C to +85° C	27433
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	

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