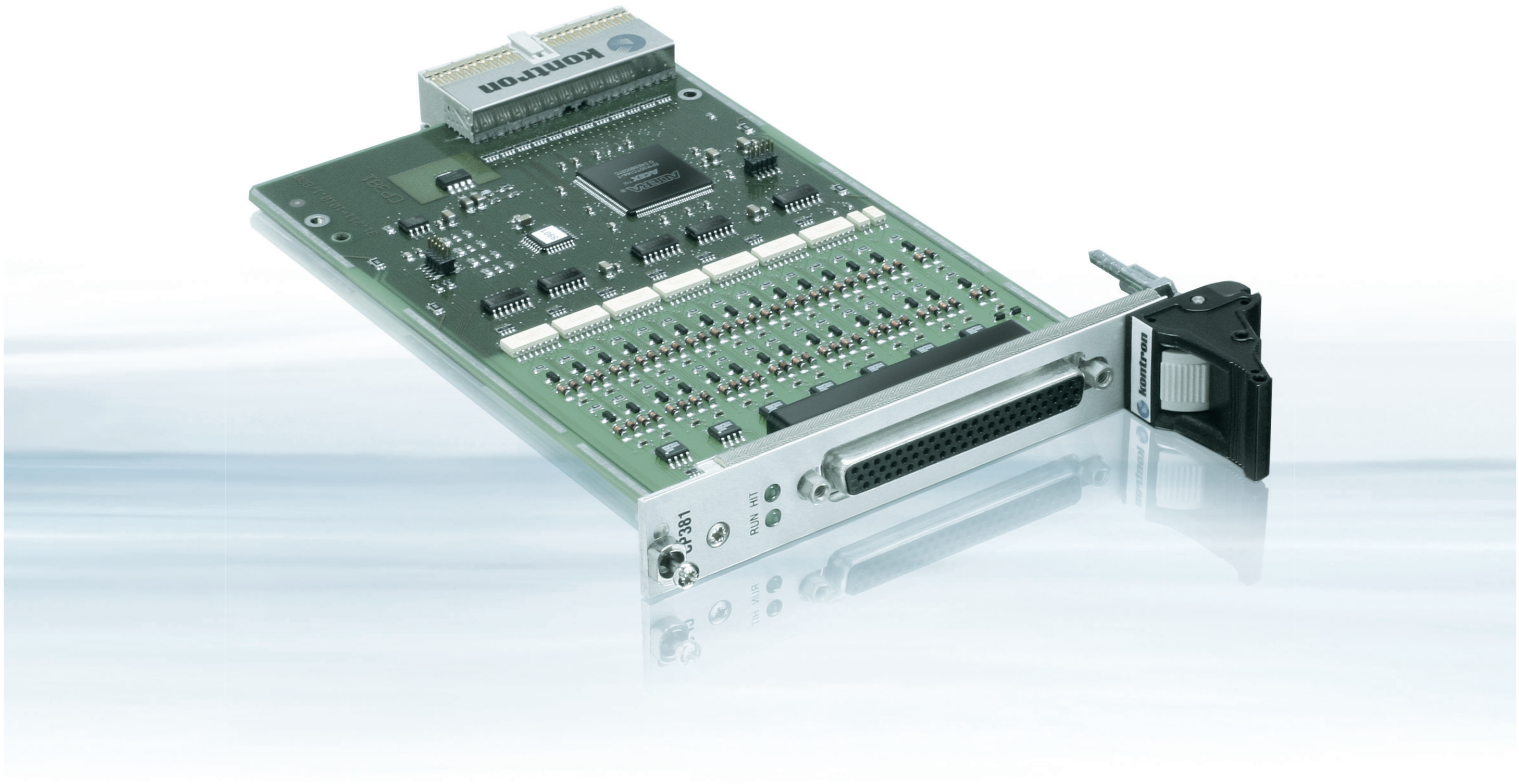
CP381



3U DIGITAL-IN BOARD

- trust in your results by designing your application under the use of a module with a wiede input voltage range
- relieve your work load by taking advantage of an efficient pre-configuration
- secure your application by benefiting of effective protection features

POSSIBILITIES START HERE kontron

Applications demanding digital input nodes, require a reasonable, cost effective solution one can rely on. Even harshest of environments aren't an issue. Having this in mind the perfect solution is Kontron's CP381 digital in.

A wide input voltage range, as well as a high nominal potential, and a superior input current, consequently create a very flexible solution.Many applications in the industrial automation area have to work under the toughest conditions (-40°C up to +85°C), and require nevertheless reliability. A sensible inverse polarity protection, and a high input protecion fulfill this task.

An incomplex product is indispensable nowadays. Therfore the CP381 features an API, relieving the connection to establish visualization tools, such as Lab View, Agilent VEE etc. Programmable debouncing, event detecion, and input capture and compare features allow a sufficient pre-configuration. Simple connectivity is provided by offering accessories like a cable, or an adapterbox. The isolation to the system secures the board. No matter which operating system is used (Windows® 2000/XP, Windows® XP embedded, VxWorks, or Linux), the CP381 promises satisfaction.

TECHNICAL INFORMATION

COMPACTPCI® INTERFACE		PCI Target Interface with FPGA, PICMG 2.0 Rev. 3.0 compliant, 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 INPUT VOLTAGE RANGE HIGH NOMINAL POTENTIAL INPUT CURRENT CHANNEL CONNECTION INPUT PROTECTION (ESD) INPUT IMPEDANCE INPUT FILTER ISOLATION DEBOUNCING MISCELLANEOUS	30 Low: -3V - +5V; High: +11V - +30V 24V Max. 5mA 2 pins per channel 8 kV min.: 1,5 KΩ; max: 6 KΩ @ 30V 10 kHz (edge frequenzy) 2kV to system Programmable Inverse Polarity Protection, Event Detection, Input Capture and Compare
SOFTWARE SUPPORT		Windows® XP, Windows® 2000, Windows® XP embedded, VxWorks®, Linux®
COMMON	FRONT PANEL CONNECTOR FRONT PANEL LED'S DIMENSIONS TEMPERATURE RANGES OPERATING HUMIDITY RANGE WEIGHT MTBF	D-Sub 62-pin 2x green status LED's 100 x 160 mm (3U card size) 0°C to + 70° C (standard) -40°C to +85° C (extended) 0 - 95% (non-condensing) 145 g 370.180 h (acc. MIL-HDBK-217F)

ORDERING INFORMATION

ARTICLE	PART NO.	DESCRIPTION
CP381	23796	30 channels digital in
CP381-E2	23797	30 channels digital in, -40°C/+85°C temperature range
CP-ADAP-IO1	25736	Cable and box for CPCI I/O products, 62 pin DSUB on 62 single channels
KIT-CP381 1)	23858	Windows® 2000, Windows® XP Board Support Package, CP381 Useŕ s Manual
VXW-DRV-CP381	23859	VxWorks® 6.x driver for CP381, CP381 Useŕ s Manual
LIN-DRV-CP381 1)	26505	Linux driver for CP381, CP381 Useŕ s Manual
WXPE-BSP-CP372 1)	1022-9856	Windows® XP embedded Board Support Package, CP381 Useŕ s Manual

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