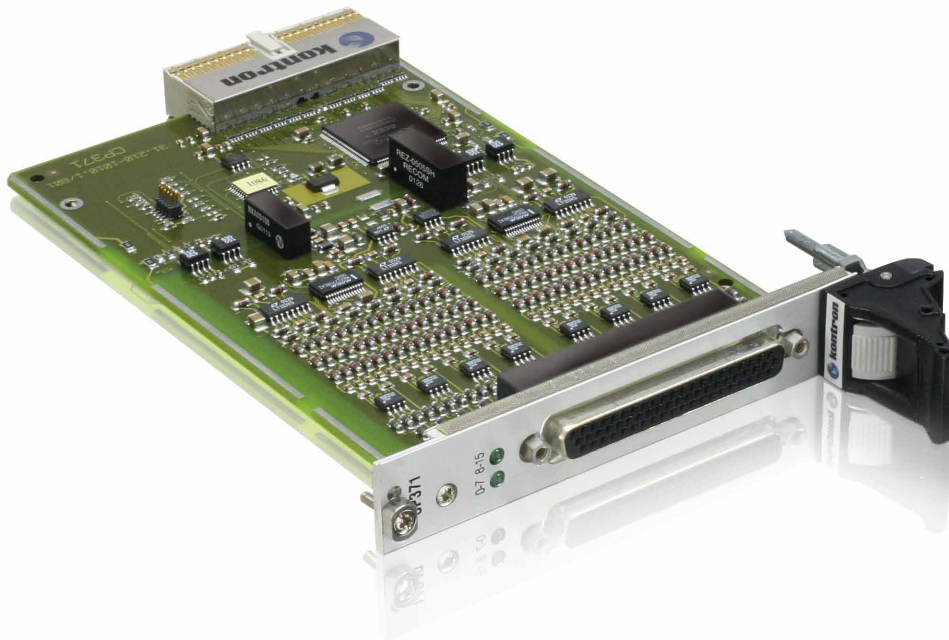


# » CP371 «



## 3U Analog-In Board

### » Act Reasonable

Relieve your work load by taking advantage of a common API.

### » Stay Reliable

Secure your application by benefiting of an efficient isolation to the system.

### » Be Straightforward

Trust in your results by designing your application with the use of a module considering an excellent basic accuracy.

Applications demanding analog input nodes, require a reasonable, cost effective solution one can rely on. Even harshest of environments shouldn't become an issue. Having this in mind the perfect solution is Kontron's CP371 analog in.

#### Act Reasonable

Selecting between two options of channel numbers, as well as four different voltage ranges, and two different input current ranges, consequently create a very flexible solution.

#### Stay Reliable

Many applications in the industrial automation area have to work under toughest conditions (-40°C up to +85°C),

and require nevertheless preciseness. A resolution of 12 bit, combined with a basic accuracy of +/- 1 LSB fulfills this task.

#### Be Straightforward

An incomplex product is indispensable nowadays. Therefore the CP371 features an API, relieving an easy connection to the visualization tools, such as Lab View, Agilent VEE etc. 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 CP371 grants satisfaction.

## Technical Information

<b>Compact PCI Interface</b>	PICMG 2.0 Rev. 3.0 compliant, 32 Bit address/data/33MHz, 1 BAR, 64 KB memory space, non prefetchable, no interrupts, universal signaling voltage (3.3V, to fit in 3.3V or 5V bus), serial EEPROM interface, PCI transfer rate up to 132 MB/sec.
<b>Analog Inputs</b>	
Number of Channels	16 (optionally 8)
Resolution	12 Bit
Basic Accuracy (INL)	+/- 1 LSB
Input Voltage Range	0..5V, 0..10V, +/-5V, +/- 10V
Input Current Range	0..20 mA, 4..20 mA
Channel Connection	differential ended (3 pins per channel)
Throughput Rate	13 kHz
Input Protection	8 kV
Input Signal Frequency	max. 3-6 kHz
Isolation	2kV to system
Calibration	onboard EEPROM with correction data for offset and gain errors per channel
<b>Software Support</b>	Windows® XP, Windows® 2000, Windows® XP embedded, VxWorks®, Linux®
<b>Common</b>	
Front Panel Connector	D-Sub 62-pin
Dimensions	100 mm x 160 mm (3U card size)
Temperature Ranges	0°C to + 70°C (standard) -40°C to +85°C (extended)
Climatic Humidity	non-condensing 93% at 40°C acc. to IEC 60068-2-78
Weight	155 g
MTBF	181.000 h (acc. MIL-HDBK-217F)

## Ordering Information

Article	Order-No.	Description
CP371	23498	16 channels analog in
CP371	23499	8 channels analog in
CP371-E2	23557	16 channels analog in, extended temperature range E2: -40 C to +85 C
CP-ADAP-I01	25736	Cable and box for CPCI I/O products, 62 pin DSUB on 62 single channels
KIT-CP371 <sup>1)</sup>	23555	Windows® 2000, Windows® XP Board Support Package, CP371 User's Manual
VXW-DRV-CP371	23556	VxWorks® 6.x driver for CP371, CP371 User's Manual
LIN-DRV-CP371 <sup>1)</sup>	26503	Linux® driver CP371, CP371 User's Manual
WXPE-BSP-CP371 <sup>1)</sup>	1022-9851	Windows® XP embedded Board Support Package, CP371 User's Manual

<sup>1)</sup> Free of charge downloadable from the Internet

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