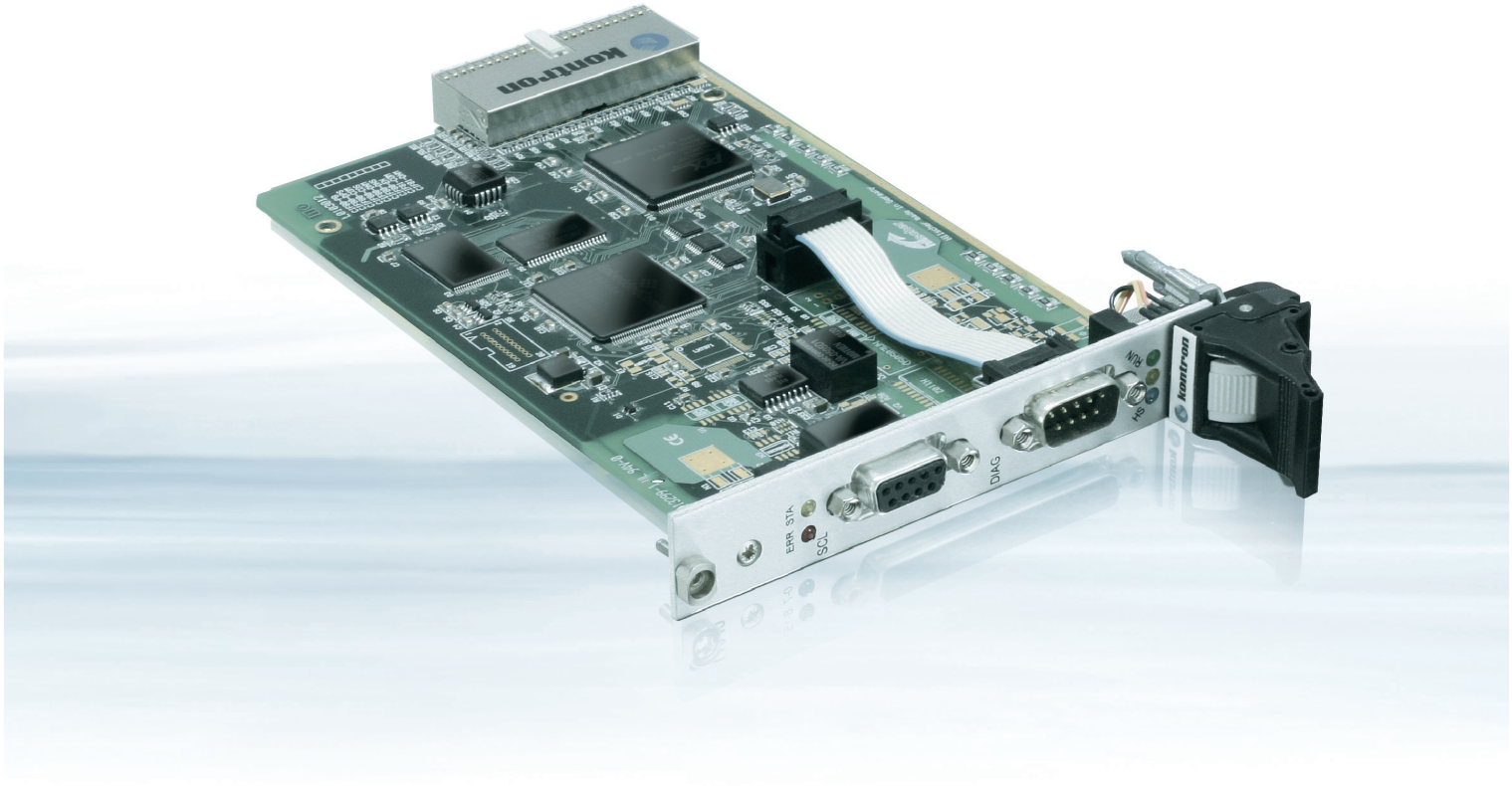
# CP371




## 3U ANALOG-IN BOARD

- act reasonable
- stay reliable
- be straightforward

POSSIBILITIES START HERE kontron

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

| | | |
|---|---|---|
| COMPACTPCI® INTERFACE | | 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. |
| ANALOG INPUTS | NUMBER OF CHANNELS<br>RESOLUTION<br>BASIC ACCURACY (INL)<br>INPUT VOLTAGE RANGE<br>INPUT CURRENT RANGE<br>CHANNEL CONNECTION<br>THROUGHPUT RATE<br>INPUT PROTECTION<br>INPUT SIGNAL FREQUENCY<br>ISOLATION<br>CALIBRATION | 16 (optionally 8)<br>12 Bit<br>+/- 1 LSB<br>0 - 5V, 0 - 10V, +/-5V, +/- 10V<br>0 - 20 mA, 4 - 20 mA<br>Differential ended (3 pins per channel)<br>13 kHz<br>8 kV<br>Max. 3-6 kHz<br>2kV to system<br>Onboard EEPROM with correction data for offset and gain errors per channel |
| SOFTWARE SUPPORT | | Windows® XP, Windows® 2000, Windows® XP embedded, VxWorks®, Linux® |
| COMMON | FRONT PANEL CONNECTOR<br>DIMENSIONS<br>TEMPERATURE RANGES<br>CLIMATIC HUMIDITY<br>WEIGHT<br>MTBF | D-Sub 62-pin<br>100 x 160 mm (3U card size)<br>0°C to + 70°C (standard); -40°C to +85°C (extended)<br>Non-condensing 93% at 40°C acc. to IEC 60068-2-78<br>155 g<br>181.000 h (acc. MIL-HDBK-217F) |

## ORDERING INFORMATION

| ARTICLE | PART 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-IO1 | 25736 | Cable and box for CPCI I/O products, 62 pin DSUB on 62 single channels |
| KIT-CP371 1) | 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 1) | 26503 | Linux® driver CP371, CP371 User's Manual |
| WXPE-BSP-CP371 1) | 1022-9851 | Windows® XP embedded Board Support Package, CP371 User's Manual |

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