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Find the *Inova Computers ICP-MULTI-0* at our website: *Click HERE*

CompactPCI®

ICP-MULTI

Composite Analog & Digital I/O Board



Applications:

- Embedded Systems
- Robotics
- Energy & Environment
- Industrial Control & Automation
- Traffic and Transportation

Equipped with 16 single-ended or 8 differential, 12-bit analog inputs, 4, 12-bit analog outputs, 16, 24V digital inputs, 8, 24V 1A digital outputs and with extra flexibility provided by the ability to configure 4 of the digital inputs for 16-bit up counter tasks, the ICP-MULTI is a multi-talented analog/digital I/O board designed to satisfy a multitude of industrial application tasks.

Complying with the IEC1131-2 standard, the digital side of the ICP-MULTI is fully PLC compatible and, because of the industrial nature of the board's deployment, all I/O are galvanically separated from the CompactPCI system bus.

LEDs on the front-panel provide a quick indication of the board status and counter activity.

inova® Computers

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Composite Digital & Analog I/O Board

FEATURES

All output channels are optoisolated and the eight, 24V digital channels are fully protected by embedded protection functions that include reverse polarity, thermal shut-down and short-circuit. In the event of a fault condition on one of the digital outputs, the error status is indicated to application software. All sixteen, 24V digital inputs are filtered to suppress interference and feature over-voltage and reverse polarity protection. The I/O range of each channel is individually software configurable.

To protect a connected load at system start-up, all eight, 24V DC digital outputs are set to OFF until application software defines the status of the individual channels.

The ICP-MULTI features an automatic calibration utility based on an internal precision reference. Amplifier offset and gain characteristics are factory set and stored in on-board, non-volatile memory.

A complete set of driver software exists for use with Windows® NT®(2000), VxWorks®, and QNX®. Drivers for other operating systems (e.g. Linux) may be available on request.

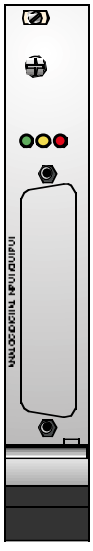
SPECIFICATIONS

CompactPCI	32-bit/33 MHz slave, 3.3V/5.0V signalling voltage and full Plug&Play and Hot-Swap compatibility
Digital Inputs	16, 24V independent, filtered & arranged in a single group with reference to GND
Digital Outputs	8, 24V independent (IEC1131-2 type 1)
Output Current	1A per channel but not exceeding 4A total
Analog Inputs	12-bit, 16 single-ended or 8 differential
Input Range	+5V, +10V ±5V, ±10V, 0..20mA, 4..20mA
Analog Outputs	4 short-circuit protected 12-bit outputs
Output Range	+5V, +10V ±5V, ±10V
Output Current	5mA
Sampling Rate	100kHz
Counters	4, 16-bit up counters (digital inputs)
Optoisolation	500V DC between I/O and system
Calibration	Automatic
Protection	Over-voltage, thermal shutdown, reverse polarity and short circuit (on digital outputs)
Interrupt	Clock independent error, A/D conversion finished, D/A conversion finished
Status LEDs	Operation (green), Counter Activity (yellow), Error (red)
Power Req.	2.2W (typ. from +3.3V and +5V lines)
Mass	160g (typically)
Oper. Temp.	0°C to +70°C
Storage Temp.	-40°C to +85°C
Humidity	5% to 95% (non-condensing) @ 40°C
Warranty	Three-year limited warranty
Conformance	CompactPCI R2.1, CE, IEC1131-2

ORDERING INFORMATION

PRODUCT	DESCRIPTION
ICP-MULTI	Optoisolated analog/digital input/output board. Driver software for the chosen OS* must be ordered separately
ICP-STATUS-2	Termination panel for ICP-MULTI with channel status LEDs
ICP-DCSET-3	2m cable set for ICP-MULTI. Other lengths available on request

* Supported OS include Windows NT (2000), VxWorks, Linux and QNX



Inova Computers GmbH
Innovapark 20
D-87600 Kaufbeuren
Tel.: ++49 (0) 83 41/ 91-62 65
Fax: ++49 (0) 83 41/ 91-62 69
E-mail: info@inova-computers.de
http:// www.inova-computers.de

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