



CPCI-DIO1616

16 Digital Inputs and 16 Digital Outputs

CompactPCI® Interface with Digital Inputs and Outputs

- 16 digital inputs 24 V
- 16 digital outputs 24 V, 250 mA
- All inputs and outputs are electrically isolated

Outputs with Short Circuit and Overload Protection

- Error detection signal

Individual Interrupt on each Input Channel

Digital Inputs and Outputs

The module CPCI-DIO1616 is a CompactPCI board in Euro format with 16 inputs and 16 outputs. All inputs and outputs are electrically isolated.

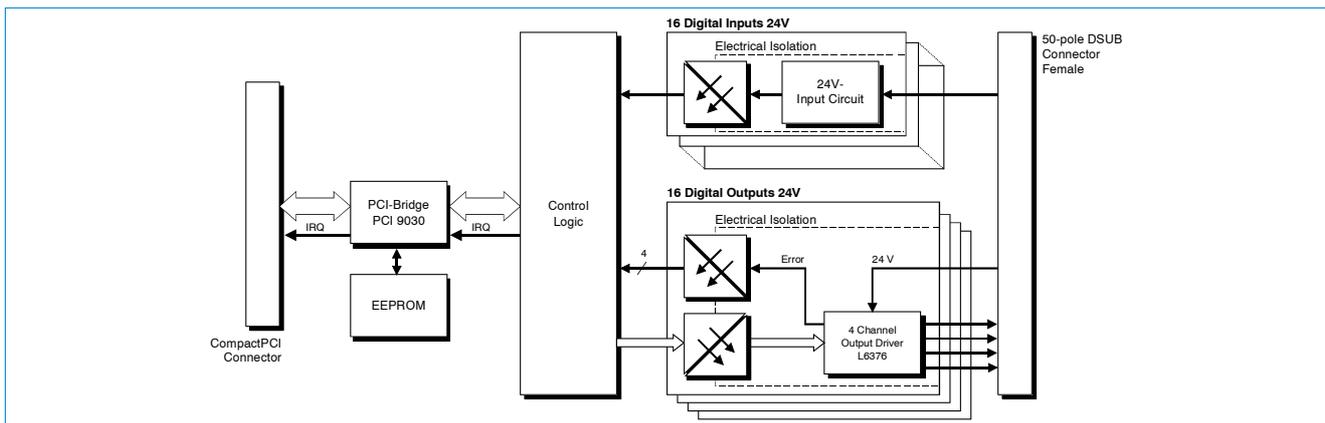
The 16 inputs are designed for 24 V. Each input can be programmed as an interrupt separately. The falling or the rising edge of the input signal can be programmed to start an interrupt.

The 16 digital outputs are designed to switch 24 V to GND. They are protected against overtemperature and short circuit. The error signals of the output drivers can be determined.



Software Support

Drivers for the operating systems VxWorks®, QNX6®, Linux® as well as Windows® are available. Additional drivers are available on request.



Technical Specifications:

CompactPCI:

Interface	According to CompactPCI specification, V 2.0
PCI Bridge	PCI9030
I/O-control	PLD or optional FPGA

16 Digital Inputs:

Input voltage	Max. permissible: $-20\text{ V} \leq U_{IN} \leq 33\text{ V}$
Switching threshold	'0': $U_{IN} < 9\text{ V}$, '1': $U_{IN} > 16,5\text{ V}$
Electrical isolation	by optocouplers, each 8 inputs use one common GND

16 Digital Outputs:

Driver supply voltage	$U_{VCC} = 9.5\text{ V/DC} \dots 35\text{ V/DC}$
Load (24 V/50 °C)	250 mA
Protection	Against short circuit and overload (thermal)
Error signals	In case of over current, over temperature, low supply voltage
Electrical isolation	By optocouplers, each 8 outputs use one common V_{CC} and GND

General:

Ambient temperature	0 °C ... 50 °C
Relative humidity	Max. 90 % (non-condensing)
Operating voltage	3.3 V and 5 V
Status LEDs	Bus access, IRQ, error
Connectors	CompactPCI board connector, I/O-connector: 50-pole DSUB, female
Board dimensions	3 HE height, 4 TE width

Order Information:

Hardware	Order No.
CPCI-DIO1616 16 dig. inputs, 16 dig. outputs	I.2309.02

Software Support¹

CPCI-DIO1616-LINUX	Linux driver source code	I.2309.19
CPCI-DIO1616-WIN	Windows driver object licence	I.2309.26
CPCI-DIO1616-VxW	VxWorks driver source code	I.2309.31
CPCI-DIO1616-QNX	QNX6 driver object licence	I.2309.32

¹ For detailed information about driver availability for your operating system please contact our sales team.