

# PCI-DIO24/LP

## Specifications



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# Specifications

Typical for 25 °C unless otherwise specified.

Specifications in *italic text* are guaranteed by design.

## Digital input/output

Table 1. Digital I/O specifications

Digital type	82C55
Number of I/O	24 (Port A0 through Port C7)
Configuration	2 banks of 8 and 2 banks of 4 or
	3 banks of 8 or
	2 banks of 8 with handshake
<i>Input low voltage</i>	<i>0.8 V max</i>
<i>Input high voltage</i>	<i>2.2 V min</i>
<i>Output low voltage (IOL = 2.5 mA)</i>	<i>0.5 V max</i>
<i>Output high voltage (IOH = -2.5 mA)</i>	<i>2.4 V min</i>
<i>Absolute maximum input voltage</i>	<i>-0.5 V, +7 V</i>
Power-up/reset state	Input mode (high impedance)
Pull-up/pull-down resistors	Dual footprint allows pull-up or pull-down configuration.

## Interrupts

Table 2. Interrupt specifications

Interrupts	INTA# - mapped to IRQ <sub>n</sub> via PCI BIOS at boot-time
Interrupt enable	External (IRQ_ENABLE) active low, disabled by default through internal resistor to TTL high and programmable through PLX9030
Interrupt sources	<ul style="list-style-type: none"><li>▪ External source (IRQ_INPUT)</li><li>▪ Polarity programmable through PLX9030</li><li>▪ Edge or level triggered programmable through PLX9030</li><li>▪ Assertion Time: 40 ns min</li></ul>

## Power consumption

Table 3. Power consumption specifications

+5 V operating	240 mA typical, 350 mA max. Does not include power consumed through the I/O connector.
+5 V available at I/O connector	300 mA max, protected with a resettable fuse
Resettable fuse	Raychem type <i>miniSMDC110</i> . Hold current: 1.1 A max Series resistance: 0.21 Ohms max.

## Environmental

Table 4. Environmental specifications

Operating temperature range	0 to 70 °C
Storage temperature range	-40 to 100 °C
Humidity	0 to 95% non-condensing

## Mechanical

Table 5. Mechanical specifications

Card dimensions	PCI low-profile MD2 length: 131.8 mm (L) x 63.5 mm (W) x 18.4 mm (H)
Form factor	Universal PCI keying. Compatible with either 3.3 V or 5 V PCI signaling environments.

## Connector and pin out

Table 6. Connector specifications

I/O connector type	SCSI type ultra micro DB68 VHDCI female
Compatible cables	MCC p/n C68MMS-x, x = 3 or 6 feet.
Compatible accessories	CIO-MINI68 CIO-MINI68/DST

Table 7. Connector pin out

Pin	Signal Name	Pin	Signal Name
1	Port A0	35	GND
2	Port A1	36	GND
3	Port A2	37	GND
4	Port A3	38	GND
5	Port A4	39	GND
6	Port A5	40	GND
7	Port A6	41	GND
8	Port A7	42	GND
9	Port B0	43	GND
10	Port B1	44	GND
11	Port B2	45	GND
12	Port B3	46	GND
13	Port B4	47	GND
14	Port B5	48	GND
15	Port B6	49	GND
16	Port B7	50	GND
17	Port C0	51	GND
18	Port C1	52	GND
19	Port C2	53	GND
20	Port C3	54	GND
21	Port C4	55	GND
22	Port C5	56	GND
23	Port C6	57	GND
24	Port C7	58	GND
25	n/c	59	GND
26	IRQ_ENABLE	60	n/c
27	IRQ_INPUT	61	n/c
28	n/c	62	n/c
29	n/c	63	n/c
30	n/c	64	n/c
31	GND	65	GND
32	n/c	66	n/c
33	GND	67	GND
34	PC +5V	68	PC +5V

**Measurement Computing Corporation**  
**10 Commerce Way**  
**Suite 1008**  
**Norton, Massachusetts 02766**  
**(508) 946-5100**  
**Fax: (508) 946-9500**  
**E-mail: [info@mccdaq.com](mailto:info@mccdaq.com)**  
**[www.mccdaq.com](http://www.mccdaq.com)**