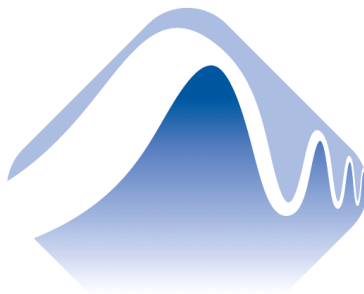


Specifications

PCI-DIO96H



**MEASUREMENT
COMPUTING™**

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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	8255 emulation, Mode 0
Output	74S244
Input	74LS373
Configuration	8 banks of 8, 8 banks of 4, programmable by bank as input or output
Number of I/O	96
<i>Output high</i>	<i>2.4 volts min @ -15 mA</i>
<i>Output low</i>	<i>0.5 volts max @ 64 mA</i>
<i>Input high</i>	<i>2.0 volts min, 7 volts absolute max</i>
<i>Input low</i>	<i>0.8 volts max, -0.5 volts absolute min</i>
Power-up / reset state	Input mode (high impedance)
Pull-up/pull-down resistors	SIP resistor locations provided for pull-up or pull-down configuration.

Power Consumption

Table 2. Power consumption specifications

+5V Operating	2.1 A typical, 3.4 A max
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Environmental

Table 3. Environmental specifications

<i>Operating temperature range</i>	<i>0 to 50 °C</i>
<i>Storage temperature range</i>	<i>-20 to 70 °C</i>
<i>Humidity</i>	<i>0 to 90% non-condensing</i>

Mechanical

Table 4. Mechanical specifications

Card dimensions	292.1 mm (L) x 106.6 mm (H) x 14.5 mm (W)
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Main connector and pin out

Table 5. Main connector specifications

Connector type	100-pin, high-density
Compatible cables	C100FF- x
Compatible accessory products	CIO-MINI50* CIO-SPADE50* CIO-TERM100 SCB-50 CIO-ERB24 CIO-SERB24 CIO-ERB48 CIO-SERB48 SSR-RACK24 SSR-RACK48 * two devices are required

Table 6. Main connector pin out

Pin	Signal name	Pin	Signal name
100	GND	50	GND
99	+5V	49	+5V
98	THIRDPORC Bit 0	48	FIRSTPORC Bit 0
97	THIRDPORC Bit 1	47	FIRSTPORC Bit 1
96	THIRDPORC Bit 2	46	FIRSTPORC Bit 2
95	THIRDPORC Bit 3	45	FIRSTPORC Bit 3
94	THIRDPORC Bit 4	44	FIRSTPORC Bit 4
93	THIRDPORC Bit 5	43	FIRSTPORC Bit 5
92	THIRDPORC Bit 6	42	FIRSTPORC Bit 6
91	THIRDPORC Bit 7	41	FIRSTPORC Bit 7
90	THIRDPORC Bit 0	40	FIRSTPORTB Bit 0
89	THIRDPORC Bit 1	39	FIRSTPORTB Bit 1
88	THIRDPORC Bit 2	38	FIRSTPORTB Bit 2
87	THIRDPORC Bit 3	37	FIRSTPORTB Bit 3
86	THIRDPORC Bit 4	36	FIRSTPORTB Bit 4
85	THIRDPORC Bit 5	35	FIRSTPORTB Bit 5
84	THIRDPORC Bit 6	34	FIRSTPORTB Bit 6
83	THIRDPORC Bit 7	33	FIRSTPORTB Bit 7
82	THIRDPORC Bit 0	32	FIRSTPORTA Bit 0
81	THIRDPORC Bit 1	31	FIRSTPORTA Bit 1
80	THIRDPORC Bit 2	30	FIRSTPORTA Bit 2
79	THIRDPORC Bit 3	29	FIRSTPORTA Bit 3
78	THIRDPORC Bit 4	28	FIRSTPORTA Bit 4
77	THIRDPORC Bit 5	27	FIRSTPORTA Bit 5
76	THIRDPORC Bit 6	26	FIRSTPORTA Bit 6
75	THIRDPORC Bit 7	25	FIRSTPORTA Bit 7
74	FOURTHPORC Bit 0	24	SECONDPORC Bit 0
73	FOURTHPORC Bit 1	23	SECONDPORC Bit 1
72	FOURTHPORC Bit 2	22	SECONDPORC Bit 2
71	FOURTHPORC Bit 3	21	SECONDPORC Bit 3
70	FOURTHPORC Bit 4	20	SECONDPORC Bit 4
69	FOURTHPORC Bit 5	19	SECONDPORC Bit 5
68	FOURTHPORC Bit 6	18	SECONDPORC Bit 6
67	FOURTHPORC Bit 7	17	SECONDPORC Bit 7
66	FOURTHPORTB Bit 0	16	SECONDPORC Bit 0
65	FOURTHPORTB Bit 1	15	SECONDPORC Bit 1
64	FOURTHPORTB Bit 2	14	SECONDPORC Bit 2
63	FOURTHPORTB Bit 3	13	SECONDPORC Bit 3
62	FOURTHPORTB Bit 4	12	SECONDPORC Bit 4
61	FOURTHPORTB Bit 5	11	SECONDPORC Bit 5
60	FOURTHPORTB Bit 6	10	SECONDPORC Bit 6
59	FOURTHPORTB Bit 7	9	SECONDPORC Bit 7
58	FOURTHPORTA Bit 0	8	SECONDPORC Bit 0
57	FOURTHPORTA Bit 1	7	SECONDPORC Bit 1
56	FOURTHPORTA Bit 2	6	SECONDPORC Bit 2
55	FOURTHPORTA Bit 3	5	SECONDPORC Bit 3
54	FOURTHPORTA Bit 4	4	SECONDPORC Bit 4
53	FOURTHPORTA Bit 5	3	SECONDPORC Bit 5
52	FOURTHPORTA Bit 6	2	SECONDPORC Bit 6
51	FOURTHPORTA Bit 7	1	SECONDPORC Bit 7

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