

CIO-DIO48

Specifications



**MEASUREMENT
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Document Revision 3.1, February, 2010
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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. DIO specifications

Digital type	82C55
Configuration	4 banks of 8, 4 banks of 4, programmable by bank as input or output
Number of channels	48 I/O
Output high	3.0 volts min @ -2.5 mA
Output low	0.4 volts max @ 2.5 mA
Input high	2.0 volts min, 5.5 volts absolute max
Input low	0.8 volts max, -0.5 volts absolute min
Power up / reset state	Input mode (high impedance)
Miscellaneous	Locations provided for installation of pull-up or pull-down resistors.

Power consumption

Table 2. Power consumption specifications

+5V	150 mA typical, 195 mA max
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Environmental

Table 3. Environmental specifications

<i>Operating temperature range</i>	0 to 50 °C
<i>Storage temperature range</i>	-40 to +100 °C
<i>Humidity</i>	0 to 90% non-condensing

Main connector and pin out

Table 4. Connector specifications

Connector type	50-pin shrouded male header
Compatible cables	C50FF-x
Compatible accessory products with the C50FF-x	CIO-TERM100 CIO-SPADE50 CIO-MINI50 SSR-RACK24, SSR-RACK48 CIO-ERB24, CIO-ERB48

Table 5. Main connector pin out

Pin	Signal name	Pin	Signal name
50	GND	49	+5V
48	FIRSTPORTC Bit 0	47	FIRSTPORTC Bit 1
46	FIRSTPORTC Bit 2	45	FIRSTPORTC Bit 3
44	FIRSTPORTC Bit 4	43	FIRSTPORTC Bit 5
42	FIRSTPORTC Bit 6	41	FIRSTPORTC Bit 7
40	FIRSTPORTB Bit 0	39	FIRSTPORTB Bit 1
38	FIRSTPORTB Bit 2	37	FIRSTPORTB Bit 3
36	FIRSTPORTB Bit 4	35	FIRSTPORTB Bit 5
34	FIRSTPORTB Bit 6	33	FIRSTPORTB Bit 7
32	FIRSTPORTA Bit 0	31	FIRSTPORTA Bit 1
30	FIRSTPORTA Bit 2	29	FIRSTPORTA Bit 3
28	FIRSTPORTA Bit 4	27	FIRSTPORTA Bit 5
26	FIRSTPORTA Bit 6	25	FIRSTPORTA Bit 7
24	SECONDPORC Bit 0	23	SECONDPORC Bit 1
22	SECONDPORC Bit 2	21	SECONDPORC Bit 3
20	SECONDPORC Bit 4	19	SECONDPORC Bit 5
18	SECONDPORC Bit 6	17	SECONDPORC Bit 7
16	SECONDPORB Bit 0	15	SECONDPORB Bit 1
14	SECONDPORB Bit 2	13	SECONDPORB Bit 3
12	SECONDPORB Bit 4	11	SECONDPORB Bit 5
10	SECONDPORB Bit 6	9	SECONDPORB Bit 7
8	SECONDPORC Bit 0	7	SECONDPORC Bit 1
6	SECONDPORC Bit 2	5	SECONDPORC Bit 3
4	SECONDPORC Bit 4	3	SECONDPORC Bit 5
2	SECONDPORC Bit 6	1	SECONDPORC Bit 7

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