CIO-DUAL-AC5

Specifications

Document Revision 3.1, March, 2010

Specifications

All specifications are subject to change without notice.
Typical for 25°C unless otherwise specified.
Specifications in *italic text* are guaranteed by design.

Digital I/O

Table 1. DIO specifications

Digital type (main connector)	*8255 mode 0 emulation*
Output	*74S244*
Input	*74LS373*
Configuration	*4 banks of 8, 4 banks of 4, programmable by bank as input or output*
Number of channels	*48 I/O*
Output high	*2.4 volts min @ -15 mA*
Output low	*0.5 volts max @ 64 mA*
Input high	*2.0 volts min, 7 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

+5 V Operating	800 mA typical, 1.30 A max

Environmental

Table 3. Environmental specifications

Operating temperature range	0 to 70 °C
Storage temperature range	-40 to 100 °C
Humidity	0 to 90% non-condensing

Main connectors and pin out

Table 4. Main connector specifications

Connector type	50-pin header connectors P1 (front) and P2 (rear)
Compatible cables	C50FE-x C50FF-x
Compatible accessory products with the C50FE-x	SSR-PB24
Compatible accessory products with the C50FF-x	CIO-TERM100 CIO-SPADE50 CIO-MINI50 SCB-50 SCB-100

Connector P1 pin out

Table 5. Connector P1 pin out

Pin	Signal Name	Pin	Signal Name
1	Port C7	2	GND
3	Port C6	4	GND
5	Port C5	6	GND
7	Port C4	8	GND
9	Port C3	10	GND
11	Port C2	12	GND
13	Port C1	14	GND
15	Port C0	16	GND
17	Port B7	18	GND
19	Port B6	20	GND
21	Port B5	22	GND
23	Port B4	24	GND
25	Port B3	26	GND
27	Port B2	28	GND
29	Port B1	30	GND
31	Port B0	32	GND
33	Port A7	34	GND
35	Port A6	36	GND
37	Port A5	38	GND
39	Port A4	40	GND
41	Port A3	42	GND
43	Port A2	44	GND
45	Port A1	46	GND
47	Port A0	48	GND
49	+5V	50	GND

Connector P2 pin out

Table 6. Connector P2 pin out

Pin	Signal Name	Pin	Signal Name
1	Port C7	2	GND
3	Port C6	4	GND
5	Port C5	6	GND
7	Port C4	8	GND
9	Port C3	10	GND
11	Port C2	12	GND
13	Port C1	14	GND
15	Port C0	16	GND
17	Port B7	18	GND
19	Port B6	20	GND
21	Port B5	22	GND
23	Port B4	24	GND
25	Port B3	26	GND
27	Port B2	28	GND
29	Port B1	30	GND
31	Port B0	32	GND
33	Port A7	34	GND
35	Port A6	36	GND
37	Port A5	38	GND
39	Port A4	40	GND
41	Port A3	42	GND
43	Port A2	44	GND
45	Port A1	46	GND
47	Port A0	48	GND
49	+5V	50	GND

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