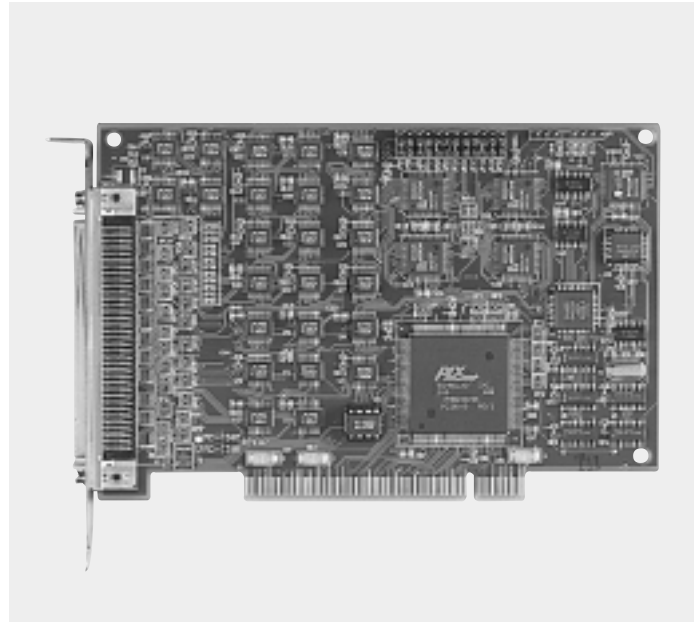


# PCI-7348/7396

## High Driving Capability 48/96-CH DIO Cards

### Features

- 32-bit PCI-Bus, Plug and Play
- 96/48 TTL compatible digital I/O lines
- higher driving capacity up to 48 mA sink and 15 mA source
- Ports are programmable as input or output
- External latch available for digital input
- Output port status can be read back
- On board 8254 timer/counter chip,
- 16-bit event counter for external signal
- 32-bit timer to generate timer interrupt
- Change Of State interrupt
- Dual interrupt system with programmable interrupt source
- Compact size, suitable for any size chassis



### Specifications

#### Digital Input / Output

- I/O channels
  - 96 digital I/O (Four 24-bit I/O ports)
- Every 8-bit ports can be configured as:
  - Digital input
  - Digital output with status read back
- Data transfer modes: Programmed I/O (with max 500K/s I/O instructions )
- I/O characteristics: TTL compatible
- Input signal
  - Logic high: 2.0V min.
  - Logic low: 0.80V max.
  - Logic high current: 1  $\mu$ A
  - Logic low current: 1  $\mu$ A
- Output signal
  - Logic high: 2.4V min.
  - Logic low: 0.5V max.
  - Logic high current: 15 mA source
  - Logic low current: 48 mA sink max.

#### Interrupt System

- Dual interrupt system
- Interrupt #0 sources: P1C0, P1C3, 16-bit event counter (from external signal source), change-of-state on any bit of P1 & P2
- Interrupt #1 sources: P2C0, P2C3, 32-bit timer (based on 2MHz internal clock), change-of-state on any bit of P3 & P4

#### General Specifications

- Operating temperature: 0 $^{\circ}$  ~ 60 $^{\circ}$ C
- Storage temperature: -20 $^{\circ}$  ~ 80 $^{\circ}$ C
- Humidity: 5 ~ 95%, non-condensing
- I/O connector: 100-pin SCSI-type female connector
- PCB dimension: 166 mm x 112 mm

### Ordering Information

**PCI-7396**  
96-CH High Driving DIO Card

**PCI-7348**  
48-CH High Driving DIO Card

#### Pin Assignments of 100-pin SCSI-type Connector

P1A0	1	51	P3A0/EVENT
P1A1	2	52	P3A1
P1A2	3	53	P3A2
P1A3	4	54	P3A3
P1A4	5	55	P3A4
P1A5	6	56	P3A5
P1A6	7	57	P3A6
P1A7	8	58	P3A7
P1B0	9	59	P3B0
P1B1	10	60	P3B1
P1B2	11	61	P3B2
P1B3	12	62	P3B3
P1B4	13	63	P3B4
P1B5	14	64	P3B5
P1B6	15	65	P3B6
P1B7	16	66	P3B7
P1C0	17	67	P3C0
P1C1	18	68	P3C1
P1C2	19	69	P3C2
P1C3	20	70	P3C3
P1C4	21	71	P3C4
P1C5	22	72	P3C5
P1C6	23	73	P3C6
P1C7	24	74	P3C7
GND	25	75	GND
P2A0	26	76	P4A0
P2A1	27	77	P4A1
P2A2	28	78	P4A2
P2A3	29	79	P4A3
P2A4	30	80	P4A4
P2A5	31	81	P4A5
P2A6	32	82	P4A6
P2A7	33	83	P4A7
P2B0	34	84	P4B0
P2B1	35	85	P4B1
P2B2	36	86	P4B2
P2B3	37	87	P4B3
P2B4	38	88	P4B4
P2B5	39	89	P4B5
P2B6	40	90	P4B6
P2B7	41	91	P4B7
P2C0	42	92	P4C0
P2C1	43	93	P4C1
P2C2	44	94	P4C2
P2C3	45	95	P4C3
P2C4	46	96	P4C4
P2C5	47	97	P4C5
P2C6	48	98	P4C6
P2C7	49	99	P4C7/EXTTRG
GND	50	100	GND