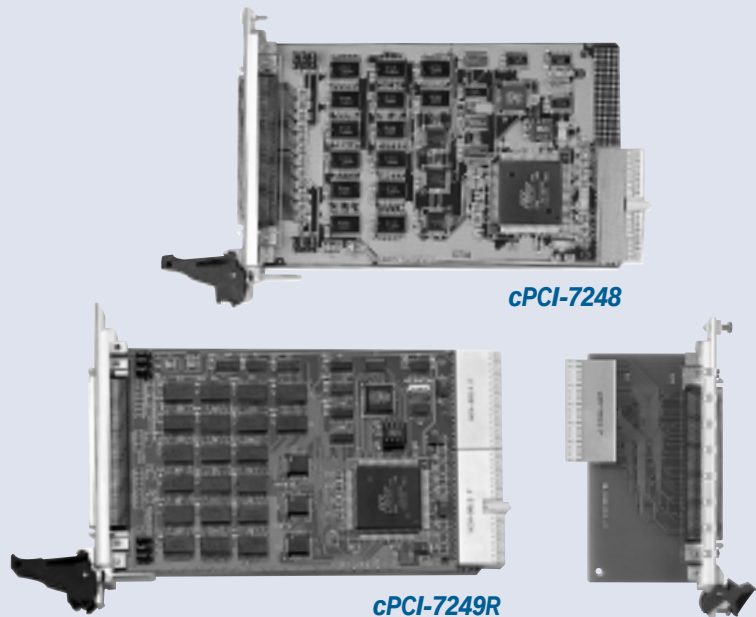


cPCI-7248/7249R

48-CH DIO &
Timer/ Counter Module

Features

- 3U CompactPCI, PICMG 2.0 Rev 2.1
- 48 TTL compatible digital I/O channels
- Rear I/O available on cPCI-7249
- Emulates 2 industry standard 8255 mode 0
- Buffered circuits for 24mA driving capacity
- Output port status read back
- On board 8254 timer / counter
- A 32-bit timer for watchdog timer interrupt
- A 16-bit event counter with event interrupt
- Dual interrupt system, with programmable interrupt sources
- Provides 12V and 5V power supply to connectors, On board resettable fuses to protect power supply
- Rugged 100-pin SCSI-type connector



Specifications

Digital Input / Output

- I/O channels:
 - 48 digital I/O for cPCI-7248
 - 48 digital I/O for cPCI-7249R for rear I/O
- I/O characteristics: TTL compatible
- Input signal
 - Logic H: 2.0~5.25V @ 22.0 mA
 - Logic L: 0.0~0.80V @ 0.2 mA
- Output signal:
 - Logic H: 2.4V min. @ 2.6 mA
 - Logic L: 0.5V max. @ 24 mA
- External digital input latch available on cPCI-7249R
- Data transfer modes: Program I/O
- Data transfer rate: max 500 K bytes/sec by program control

Interrupt System

- Dual interrupt system
- Interrupt #1 sources: P1C0, P1C3, event counter
- Interrupt #1 sources: P2C0, P2C3, internal time

General Specifications

- Operating temperature: 0° ~ 60°C
- Storage temperature: -20° ~ 80°C
- I/O connector: 100-pin SCSI-type connector female)
- Power requirement (without external loading devices)

cPCI-7248

+5V @ 500 mA (typical)

cPCI-7249R

+5V @ 580 mA (typical)

Termination Boards

- DIN-100S

Ordering Information

cPCI-7248

48 Channel Digital I/O Card

cPCI-7249R

48 Channel Digital I/O Card with Rear I/O

cPCI-7248/D, cPCI-7249R/D

cPCI-7248/7249R with DIN-100S

Note: The above products are shipped with software development kit for DOS/Win-95/98/NT/2000, PCIS-LVIEW and PCIS-VEE

cPCI-7248 Pin Assignments of the 100-pin SCSI-type connectors

P1A0	1	51	EVENT
P1A1	2	52	GND
P1A2	3	53	GND
P1A3	4	54	GND
P1A4	5	55	GND
P1A5	6	56	GND
P1A6	7	57	GND
P1A7	8	58	GND
P1B0	9	59	GND
P1B1	10	60	GND
P1B2	11	61	GND
P1B3	12	62	GND
P1B4	13	63	GND
P1B5	14	64	GND
P1B6	15	65	GND
P1B7	16	66	GND
P1C0	17	67	GND
P1C1	18	68	GND
P1C2	19	69	GND
P1C3	20	70	GND
P1C4	21	71	GND
P1C5	22	72	GND
P1C6	23	73	GND
P1C7	24	74	GND
V5V	25	75	V5V
P2A0	26	76	GND
P2A1	27	77	GND
P2A2	28	78	GND
P2A3	29	79	GND
P2A4	30	80	GND
P2A5	31	81	GND
P2A6	32	82	GND
P2A7	33	83	GND
P2B0	34	84	GND
P2B1	35	85	GND
P2B2	36	86	GND
P2B3	37	87	GND
P2B4	38	88	GND
P2B5	39	89	GND
P2B6	40	90	GND
P2B7	41	91	GND
P2C0	42	92	GND
P2C1	43	93	GND
P2C2	44	94	GND
P2C3	45	95	GND
P2C4	46	96	GND
P2C5	47	97	GND
P2C6	48	98	GND
P2C7	49	99	GND
+12V	50	100	+12V