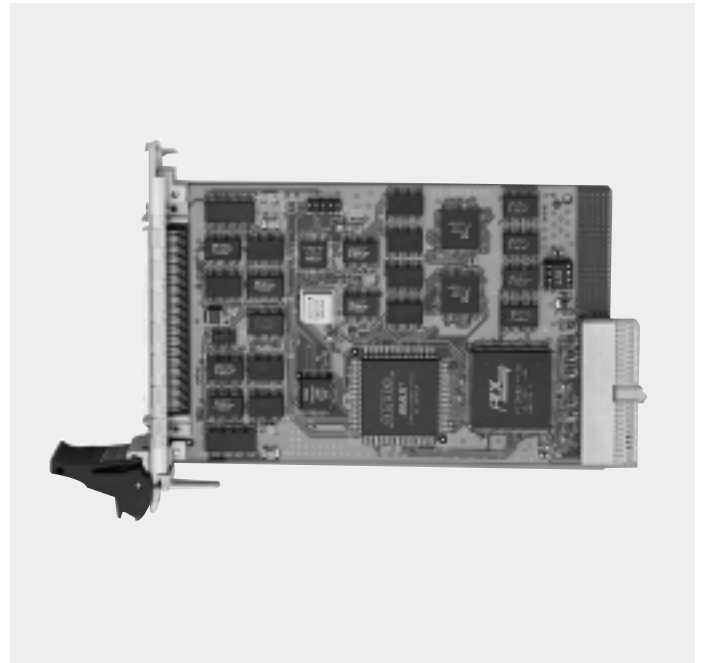


cPCI-7300

80MB/s Ultra-High Speed 32-CH Digital I/O Module

Features

- 32-bit CompactPCI, PICMG 2.0 Rev2.1
- Two 16-bit ports (Port A and B) can be configured as DI or DO
- Multi-I/O port configurations: 32 DI, 32 DO or 16 DI and 16 DO
- Up to 80MB/sec data transfer rate
- On board 64KB FIFO, FIFO depth is 16K words for both Port A and Port B
- Bus-mastering data transfer from host memory to FIFO with scatter gather technology
- On-board internal pacer trigger for both DI/DO
- Cyclic operation of the FIFO is suitable for digital pattern generator
- ACK and REQ for handshaking data transfer
- Active terminators for high speed and long distance data transfer
- Rugged 100-pin SCSI-type connector



Specifications

Digital I/O (DIO)

- Number of channels: 32
- Devices: IDT 74FCT373
- I/O configurations
 - 16 DI (Port A) & 16 DO (Port B)
 - 32 DO (Port A & B)
 - 32 DI (Port A & B)
- I/O signal characteristic
 - Terminator off: TTL compatible
 - Low: +0.5V @ +/- 20 mA
 - High: +2.7V @ +/- 1 mA max
 - Terminator on: 110 Ohms
 - Termination voltage: 2.9V
 - Low: +0.5V @ +/- 22.4 mA
 - High: +2.7V @ +/- 1 mA max
- Data transfers: Bus master DMA with scatter-gather
- Data transfers bus width: 32/16/8 bits programmable
- Max transfer rate
 - DO 80M Bytes/s: 32-bit output from FIFO to DO by internal clock 20MHz
 - DI 80M Bytes/s: 32-bit input from DI to FIFO by internal clock 20MHz

Auxiliary Digital I/O

- Number of channels: 4 DI, 4 DO
- TTL Compatible
- Passive terminators for 4 Aux DI (220 W pull high, 330W pull low)
- Data transfer mode: PIO

Programmable Timer

- Timer device: 82C54-10
- Digital input pacer: 20MHz, 10MHz or clock output of Timer #0
- Digital output pacer: 20MHz, 10MHz or clock output of Timer #1
- General purpose timer: Timer #2

General Specifications

- Connector: 100-pin SCSI-type (AMP787082-9 or equivalent)
- Operating temperature: 0°C ~ 60°C
- Storage temperature: -20°C ~ 80°C
- Humidity: %5~%90, non-condensing
- Power requirement: +5V @ 550mA maximum
- Dimension: 3U CompactPCI standard form factor

Termination Boards

- DIN-100S
- DIN-502S

Ordering Information

cPCI-7300

80MB/s Ultra-high speed 32-CH DIO Module

Pin Assignments of the 100-pin SCSI-type connector

GND	1	51	PB15
GND	2	52	PB14
GND	3	53	PB13
GND	4	54	PB12
GND	5	55	PB11
GND	6	56	PB10
GND	7	57	PB9
GND	8	58	PB8
GND	9	59	PB7
GND	10	60	PB6
GND	11	61	PB5
GND	12	62	PB4
GND	13	63	PB3
GND	14	64	PB2
GND	15	65	PB1
GND	16	66	PB0
GND	17	67	DO_ACK
GND	18	68	DO_REQ
GND	19	69	DO_TRG
GND	20	70	AUXO3
GND	21	71	AUXO2
GND	22	72	AUXO1
GND	23	73	AUXO0
GND	24	74	TERMPWR
GND	25	75	TERMPWR
GND	26	76	TERMPWR
GND	27	77	TERMPWR
GND	28	78	AUXI3
GND	29	79	AUXI2
GND	30	80	AUXI1
GND	31	81	AUXI0
GND	32	82	DI_ACK
GND	33	83	DI_REQ
GND	34	84	DI_TRG
GND	35	85	PA15
GND	36	86	PA14
GND	37	87	PA13
GND	38	88	PA12
GND	39	89	PA11
GND	40	90	PA10
GND	41	91	PA9
GND	42	92	PA8
GND	43	93	PA7
GND	44	94	PA6
GND	45	95	PA5
GND	46	96	PA4
GND	47	97	PA3
GND	48	98	PA2
GND	49	99	PA1
GND	50	100	PA0