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PMC-HDD1 Module

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PMC-HDD1 Module

Board description

The PMC-HDD1 provides the *PEP* PowerPC-based CPU boards with a cost-effective way to add substantial mass storage capacity. It is designed to connect a 2.5” IDE hard disk drive to the PCI bus of those boards. It is based on the silicon image IDE controller SiI0680, which provides the interface between the 32 bit wide, 33 MHz PCI bus and a standard IDE hard disk drive. It is able to handle transfer rates up to the ATA-133 speed standard.



Note...

- The maximum transfer rate which can be achieved with this module is restricted by the hard drive in use.
- The capacity of the module is defined by the hard drive in use.

Figure G-1: PMC-HDD1 Module with Hard Disk Drive Attached

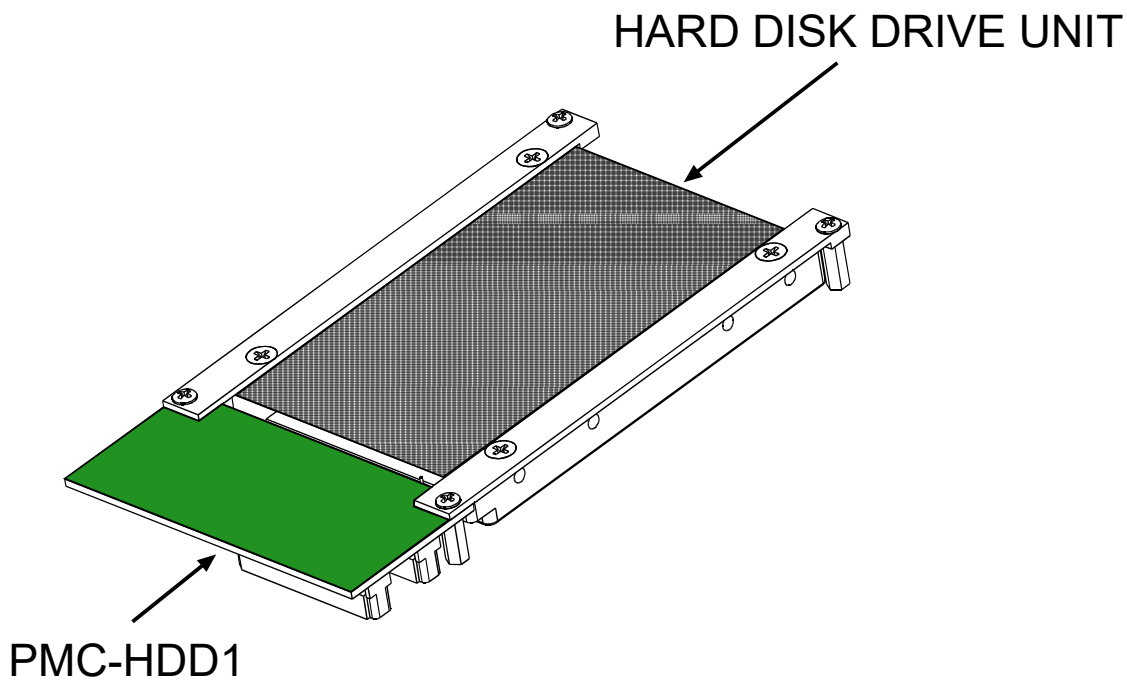


Table G-1: Pinout of the PMC Connectors

PN1/JN1 (CON1)				PN2/JN2 (CON2)			
Pin #	Signal Name	Signal Name	Pin #	Pin #	Signal Name	Signal Name	Pin #
1	Signal	-12V	2	1	+12V	Signal	2
3	Ground	Signal	4	3	Signal	Signal	4
5	Signal	Signal	6	5	Signal	Ground	6
7	BUSMODE1#	+5V	8	7	Ground	Signal	8
9	Signal	Signal	10	9	Signal	Signal	10
11	Ground	Signal	12	11	BUSMODE2#	+3.3V	12
13	Signal	Ground	14	13	Signal	BUSMODE3#	14
15	Ground	Signal	16	15	+3.3V	BUSMODE4#	16
17	Signal	+5V	18	17	Signal	Ground	18
19	V (I/O)	Signal	20	19	Signal	Signal	20
21	Signal	Signal	22	21	Ground	Signal	22
23	Signal	Ground	24	23	Signal	+3.3V	24
25	Ground	Signal	26	25	Signal	Signal	26
27	Signal	Signal	28	27	+3.3V	Signal	28
29	Signal	+5V	30	29	Signal	Ground	30
31	V (I/O)	Signal	32	31	Signal	Signal	32
33	Signal	Ground	34	33	Ground	Signal	34
35	Ground	Signal	36	35	Signal	+3.3V	36
37	Signal	+5V	38	37	Ground	Signal	38
39	Ground	Signal	40	39	Signal	Ground	40
41	Signal	Signal	42	41	+3.3V	Signal	42
43	Signal	Ground	44	43	Signal	Ground	44
45	V (I/O)	Signal	46	45	Signal	Signal	46
47	Signal	Signal	48	47	Ground	Signal	48
49	Signal	+5V	50	49	Signal	+3.3V	50
51	Ground	Signal	52	51	Signal	Signal	52
53	Signal	Signal	54	53	+3.3V	Signal	54
55	Signal	Ground	56	55	Signal	Ground	56
57	V (I/O)	Signal	58	57	Signal	Signal	58
59	Signal	Signal	60	59	Ground	Signal	60
61	Signal	+5V	62	61	Signal	+3.3V	62
63	Ground	Signal	64	63	Ground	Signal	64

.

Table G-2: IDE Hard Disk Drive Connector Pinout

Pin Number	Signal	Function	In/Out
1	IDERESET	Reset HD	Out
2	GND	Ground signal	--
3	HD7	HD data 7	In/Out
4	HD8	HD data 8	In/Out
5	HD6	HD data 6	In/Out
6	HD9	HD data 9	In/Out
7	HD5	HD data 5	In/Out
8	HD10	HD data 10	In/Out
9	HD4	HD data 4	In/Out
10	HD11	HD data 11	In/Out
11	HD3	HD data 3	In/Out
12	HD12	HD data 12	In/Out
13	HD2	HD data 2	In/Out
14	HD13	HD data 13	In/Out
15	HD1	HD data 1	In/Out
16	HD14	HD data 14	In/Out
17	HD0	HD data 0	In/Out
18	HD15	HD data 15	In/Out
19	GND	Ground signal	--
20	N/C	--	--
21	IDEDRQ	DMA request	In
22	GND	Ground signal	--
23	IOW	I/O write	Out
24	GND	Ground signal	--
25	IOR	I/O read	Out
26	GND	Ground signal	--
27	IOCHRDY	I/O channel ready	In
28	GND	Ground signal	--
29	IDEDACKA	DMA Ack	Out
30	GND	Ground signal	--
31	IDEIRQ	Interrupt request	In
32	N/C	--	--
33	A1	Address 1	Out
34	N/C	--	--
35	A0	Address 0	Out
36	A2	Address 2	Out
37	HCS0	HD select 0	Out
38	HCS1	HD select 1	Out
39	NC	--	In
40	GND	Ground signal	--
41	VCC	5V power	--
42	VCC	5V power	--
43	GND	Ground signal	--
44	N/C	--	--

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