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CONNECTORS

4HP	8HP
J3-J5	J2
J6, J7	J7
J8	J10
J9	J5
J11	J12
J12	J14
J13	J15
J14	J19
J15, J16	
J19	
J20	
CompactPCI	PS/2 Mouse
USB2, USB1	HDD 2.5" (Secondary IDE)
Mouse / Keyboard	COM 2
Floppy Drive header	Floppy Drive
IDE header	Floppy Drive header
Video (SVGA)	IDE1 header
Hard Disk Power	PS/2 Mouse & HD Power
SCSI 3 LVD Internal	COM2 header
SCSI 3 LVD External	
LAN 2, LAN 1	
COM 1	
COM 2 Header	

Note:
4HP refers to the Rear I/O Board
8HP refers to the Mezzanine Board

JUMPER SETTINGS

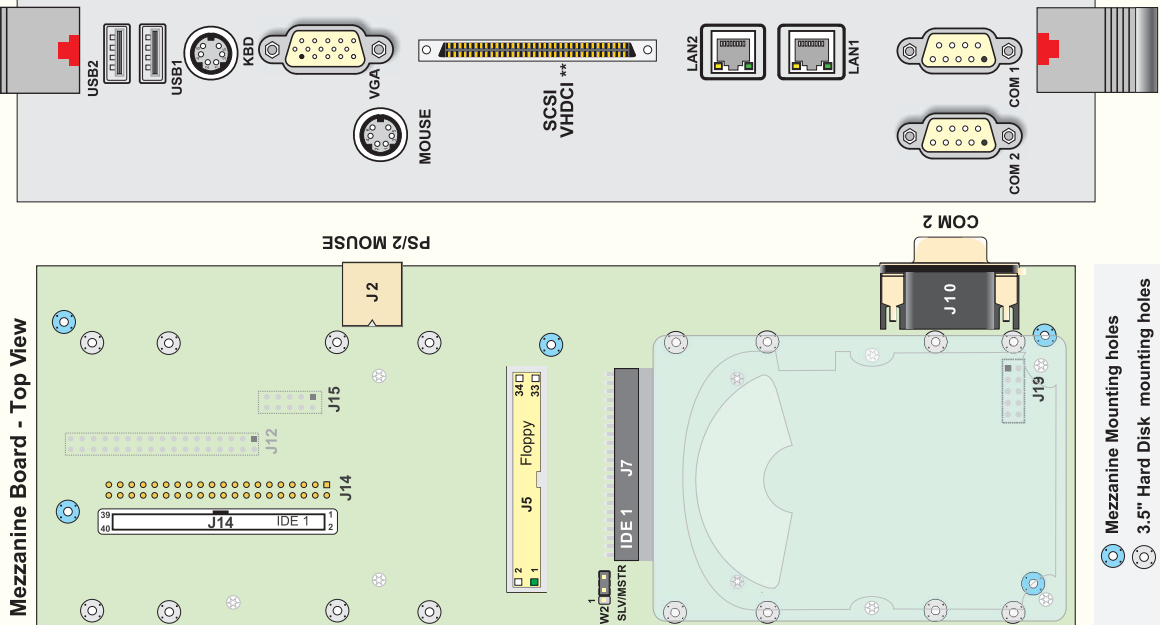
W2	HDD Configuration, on Mezzanine	
W2	Master	Slave
W2	2-3	1-2

- Note 1**
SCSI-3 LVDS supports Ultra160
- Note 2**
RTM is compatible with cPCI-DT64, CP6000, CP6010 and CP6011
- Note 3**
When using the 2.16 backplane, U1, U2, J15 (LAN1) and J16 (LAN2) are removed.
- Note 4**
For J14, IDE connector in 8HP, use the 7" cable provided with the RTM (Kontron, PN: 150-544-00). Device on the IDE cable connected on J14 should be set to "Slave" if a 2.5" hard disk is present on the mezzanine.
- Note 5**
* Populated with PIM option (T6701#B_#-## or T6701#D_#-##)
** Populated with SCSI option (T6701#A_#-## or T6701#C_#-##)

First Level Debugging
HDD IDE is not detected or fails to boot.
Check the HDD configuration jumpers (see jumper settings)

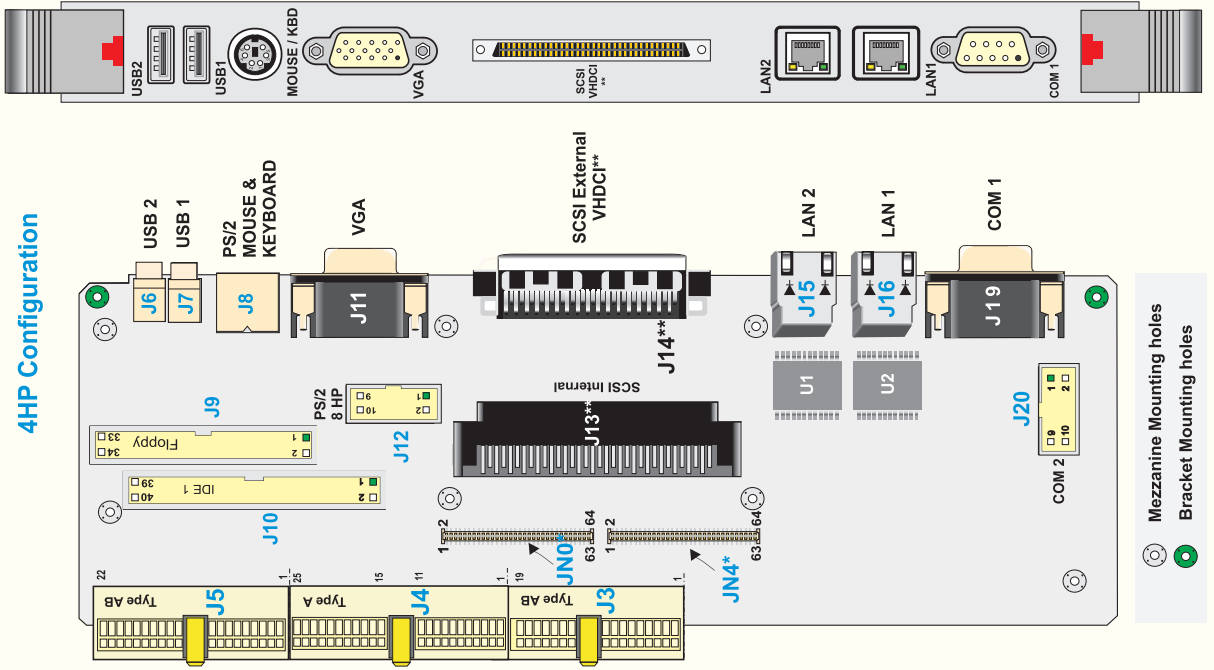
Rev. 1

8HP Configuration



Mezzanine Mounting holes
3.5" Hard Disk mounting holes

4HP Configuration



Mezzanine Mounting holes
Bracket Mounting holes

Connector Pinouts

Internal

CTM80-2

Board Rev. 1.1

External

◆ J3 - CompactPCI I/O				
ROW A	ROW B	ROW C	ROW D	ROW E
1 COM1-RS	COM1-DBR	COM1-DBR	COM1-DDD	D1
2 COM1-RS	COM1-DBR	COM1-CST	COM1-TA	MOUSECLK
3 COM1-RS	COM1-RX	COM1-DBR	COM1-DDD	MOUSEDATA
4 COM1-RS	COM1-RX	COM1-CST	COM1-TX	KB.DAT
5 VGRBLUE	VGRHSYNC	VGRASCL	VGRASCL	KB.CLK
6 VGRRED	VGRGREEN	VGRASCL	VGRASCL	POSTDATA
7 ID0	ID3	ID3	ID3	SPEAKER
8 USB0-DATA	USB0-DATA+	RSV	RSV	RSV
9 USB1-DATA	USB1-DATA+	RSV	RSV	RSV
10 USB1-VCC	USB1-VCC	RSV	RSV	RSV
11 RSV	RSV	RSV	RSV	RSV
12 RSV	RSV	RSV	RSV	RSV
13 LAN0-ACT	LAN1-ACT	LAN1-ACT	LAN1-ACT	RSV
14 LAN0-LINK	LAN1-LINK	LAN1-LINK	LAN1-LINK	RSV
15 LAN1-DB+	LAN1-DB-	LAN1-DB+	LAN1-DB-	LAN1-DD-
16 LAN1-DB+	LAN1-DB-	LAN1-DB+	LAN1-DB-	LAN1-DD+
17 LAN0-DB+	LAN0-DB-	LAN0-DB+	LAN0-DB-	LAN0-DD-
18 LAN0-DB+	LAN0-DB-	LAN0-DB+	LAN0-DB-	LAN0-DD+
19 VCC	VCC	VCC	VCC	-12V

◆ J5 - CompactPCI I/O				
ROW A	ROW B	ROW C	ROW D	ROW E
1 RSV	RSV	GND	RSV	RSV
2 RSV	RSV	GND	RSV	RSV
3 RSV	RSV	GND	RSV	RSV
4 RSV	RSV	GND	RSV	RSV
5 RSV	RSV	GND	RSV	RSV
6 RSV	RSV	GND	RSV	RSV
7 RSV	RSV	GND	RSV	RSV
8 RSV	RSV	GND	RSV	RSV
9 RSV	RSV	GND	RSV	RSV
10 FD-MSNO	FD-MSNR	GND	RSV	RSV
11 FD-MTR#	FD-MTR#	GND	RSV	RSV
12 FD-TRK#	FD-TRK#	GND	RSV	RSV
13 FD-TRK#	FD-TRK#	GND	RSV	RSV
14 FD-DSCKGH#	FD-HSSEL#	GND	RSV	RSV
15 IDE06	IDE07	GND	RSV	RSV
16 IDE04	IDE010	GND	RSV	RSV
17 IDE02	IDE03	GND	RSV	RSV
18 IDE00	IDE011	GND	RSV	RSV
19 IDE00R#	IDE00H	GND	RSV	RSV
20 NC	IDE0R	GND	RSV	RSV
21 IDEA2	IDEA0	GND	RSV	RSV
22 IDEAC#	IDECS#	GND	RSV	RSV

◆ Floppy Disk J9 - 4HP Mezz: J5, J12 - 8HP				
Odd Pin Number	Even Pin Number	Index#	Index#	Index#
1-3, 7-33	GND	22	WDATA#	30
4, 5	N.C.	10	MTR0#	32
		12	WGATE#	34
		26	TRK0#	36
		28	DSEL0#	38
		30	WRPROT#	40
		16	MTR1#	32
		18	DIR#	34
		20	STEP#	36
		22	DSKGH#	38

◆ J10 - Secondary IDE (4HP) Mezz: J7, J14 - Secondary IDE (8HP)				
Odd Pin Number	Even Pin Number	IO#	ACT#	IO#
1	RS1#	25	IOCRDY	30
2	D7-D0	29	DMACK#	32
3	GND	31	DIAG#	34
4	RS0	27		
5	GND	29		
6	RS1	25		
7	GND	27		
8	RS0	29		
9	GND	31		
10	RS1	27		
11	GND	29		
12	RS0	25		
13	GND	27		
14	RS1	29		
15	GND	31		
16	RS0	25		
17	GND	27		
18	RS1	29		
19	GND	31		
20	RS0	25		
21	GND	27		
22	RS1	29		
23	GND	31		
24	RS0	25		
25	GND	27		
26	RS1	29		
27	GND	31		
28	RS0	25		
29	GND	27		
30	RS1	29		
31	GND	31		
32	RS0	25		
33	GND	27		
34	RS1	29		
35	GND	31		
36	RS0	25		
37	GND	27		
38	RS1	29		
39	GND	31		
40	RS0	25		
41	GND	27		
42	RS1	29		
43	GND	31		
44	RS0	25		
45	GND	27		
46	RS1	29		
47	GND	31		
48	RS0	25		
49	GND	27		
50	RS1	29		
51	GND	31		
52	RS0	25		
53	GND	27		
54	RS1	29		
55	GND	31		
56	RS0	25		
57	GND	27		
58	RS1	29		
59	GND	31		
60	RS0	25		
61	GND	27		
62	RS1	29		
63	GND	31		
64	RS0	25		
65	GND	27		
66	RS1	29		
67	GND	31		
68	RS0	25		
69	GND	27		
70	RS1	29		
71	GND	31		
72	RS0	25		
73	GND	27		
74	RS1	29		
75	GND	31		
76	RS0	25		
77	GND	27		
78	RS1	29		
79	GND	31		
80	RS0	25		
81	GND	27		
82	RS1	29		
83	GND	31		
84	RS0	25		
85	GND	27		
86	RS1	29		
87	GND	31		
88	RS0	25		
89	GND	27		
90	RS1	29		
91	GND	31		
92	RS0	25		
93	GND	27		
94	RS1	29		
95	GND	31		
96	RS0	25		
97	GND	27		
98	RS1	29		
99	GND	31		
100	RS0	25		

◆ J4 - PIM Connections (PMC Rear Access)				
ROW A	ROW B	ROW C	ROW D	ROW E
1 PIM61	PIM63	GND	PIM62	PIM64
2 PIM57	PIM59	GND	PIM58	PIM60
3 GND	GND	GND	GND	GND
4 PIM33	PIM35	GND	PIM34	PIM36
5 PIM49	PIM51	GND	PIM50	PIM52
6 PIM45	PIM47	GND	PIM46	PIM48
7 PIM41	PIM43	GND	PIM42	PIM44
8 PIM37	PIM39	GND	PIM38	PIM40
9 PIM33	PIM35	GND	PIM34	PIM36
10 PIM29	PIM31	GND	PIM30	PIM32
11 PIM25	PIM27	GND	PIM26	PIM28
12 PIM21	PIM23	GND	PIM22	PIM24
13 PIM17	PIM19	GND	PIM18	PIM20
14 PIM13	PIM15	GND	PIM14	PIM16
15 PIM9	PIM11	GND	PIM10	PIM12
16 PIM5	PIM7	GND	PIM6	PIM8
17 PIM1	PIM3	GND	PIM2	PIM4

◆ J4 - PIM SCSI Ultra 160/320 connections (VHDCI)				
ROW A	ROW B	ROW C	ROW D	ROW E
1 D12+	D12-	GND	D13+	D13-
2 D14+	D14-	GND	D15+	D15-
3 DPH+	DPH-	GND	D16+	D16-
4 D1+	D1-	GND	D17+	D17-
5 D3+	D3-	GND	D18+	D18-
6 D5+	D5-	GND	D19+	D19-
7 D7+	D7-	GND	D20+	D20-
8 D9+	D9-	GND	D21+	D21-
9 D11+	D11-	GND	D22+	D22-
10 D13+	D13-	GND	D23+	D23-
11 D15+	D15-	GND	D24+	D24-
12 D17+	D17-	GND	D25+	D25-
13 DIFFSENS	TERMPWR7	GND	TERMPWR8	TERMPWR9
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

◆ J4 - PIM SCSI Ultra 160/320 connections (VHDCI) - Key Area				
ROW A	ROW B	ROW C	ROW D	ROW E
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

◆ PS2 Mouse, Mezz HD-Power				
ROW A	ROW B	ROW C	ROW D	ROW E
1				
2				
3				
4				
5				
6				
7				
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12				
13				
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15				
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17				
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20				
21				
22				
23				
24				
25				

◆ J13, J14 - SCSI 3 LVD (4HP)				
ROW A	ROW B	ROW C	ROW D	ROW E
1	D12+	35	D12-	36
2	D14+	37	D14-	38
3	D15+	39	D15-	40
4	DPH+	38	DPH-	39
5	DPH+	39	DPH-	38
6	D0+	40	D0-	41
7	D1+	41	D1-	42
8	D2+	42	D2-	43
9	D3+	43	D3-	44
10	D4+	44	D4-	45
11	D6+	46	D6-	47
12	D6+	46	D6-	47
13	D7+	47	D7-	48
14	DPL+	48	DPL-	49
15	DIFFSENS	50	DIFFSENS	51
16	DIFFSENS	50	DIFFSENS	51
17	TERMPWR	52	TERMPWR	53
18	TERMPWR	52	TERMPWR	53
19	N.C.	53	N.C.	54
20	GND	54	GND	55
21	ATN+	55	ATN-	56
22	GND	56	GND	57
23	BSY+	57	BSY-	58
24	ACK+	58	ACK-	59
25	RESET+	59	RESET-	60
26	MSG+	60	MSG-	61
27	SEL+	61	SEL-	62
28	CD+	62	CD-	63
29	REQ+	63	REQ-	64
30	IO+	64	IO-	65
31	D8+	65	D8-	66
32	D9+	66	D9-	67
33	D10+	67	D10-	68
34	D11+	68	D11-	69

◆ J15, J16 - Ethernet 1 & 2				
ROW A	ROW B	ROW C	ROW D	ROW E
1	DA+	5	DC+	6
2	DB+	6	DD+	7
3	DB+	7	DD+	8
4	DC+	8	DD+	9
5	DC+	9	DD+	10
6	DD+	10	DD+	11
7	DD+	11	DD+	12
8	DD+	12	DD+	13
9	DD+	13	DD+	14
10	DD+	14	DD+	15
11	DD+	15	DD+	16
12	DD+	16	DD+	17
13	DD+	17	DD+	18
14	DD+	18	DD+	19
15	DD+	19	DD+	20
16	DD+	20	DD+	21
17	DD+	21	DD+	22
18	DD+	22	DD+	23
19	DD+	23	DD+	24
20	DD+	24	DD+	25
21	DD+	25	DD+	26
22	DD+	26	DD+	27
23	DD+	27	DD+	28
24	DD+	28	DD+	29
25	DD+	29	DD+	30



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