CTM80-3

Rear Panel I/O

Board Rev. 2

kontron

QUICK REFERENCE

Document version 1.1

CONNECTORS

J1	Floppy Drive Header
J2	USB Connector
J3	J3 CPCI Connector
J4	J4 CPCI Connector
J5	J5 CPCI Connector
J7	Ethernet Connector
J8	SATA Connector
J9	Speaker Connetor
J11	VGA Connector
J12	COM2 Header
J13	POST Code Connector
J14	IDE Header (PATA)
J15	PS/2 Connector (Mouse / Keyboard)
J16	IDE 2.5" Hard Disk (PATA)
J17	SCSI Connector (Internal)
J18	SCSI Connector (External)
J21	SATA 2.5" Hard Disk
J22	COM1 Connector (RJ45)

JUMPER SETTINGS

JP1 IDE Master Configuration	Pin
Device Connected to J14*	1-3
Reserved	3-4
2.5" PATA HDD	none

* All devices connected to J14 must be set to cable select

Note 1
SCSI supports Ultra160/320

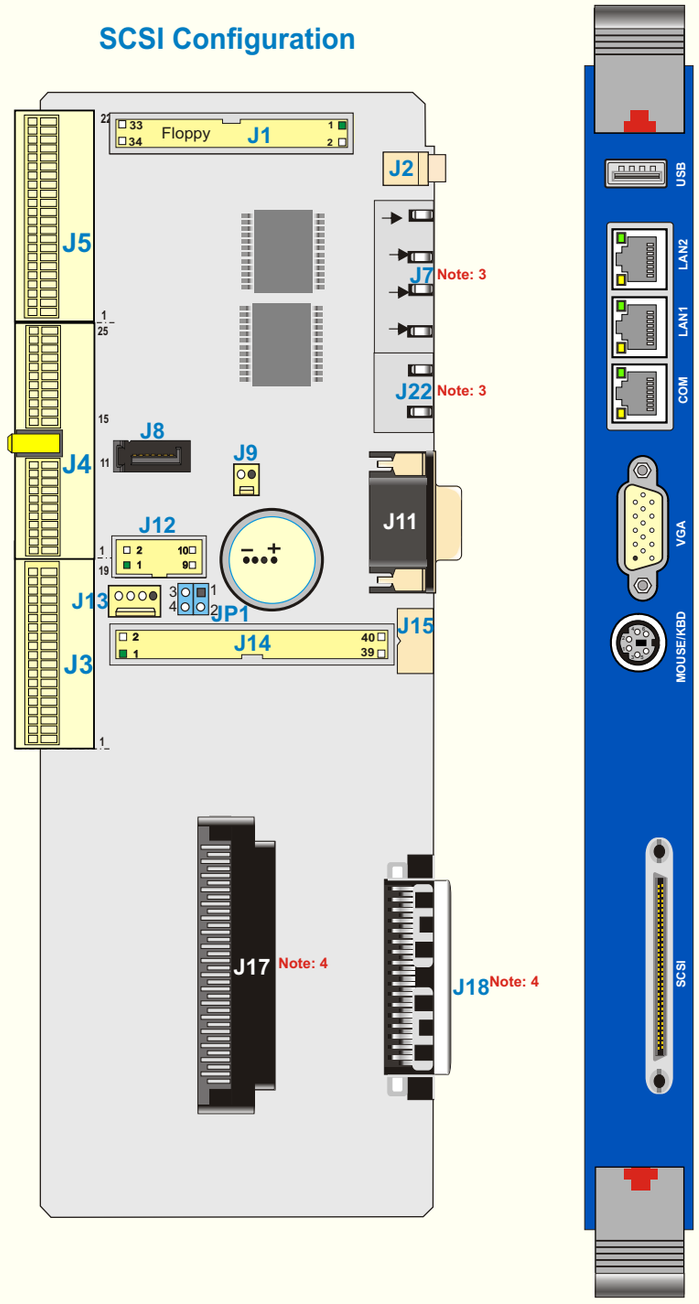
Note 2
RTM is compatible with cPCI-DT64, CP6000, CP6010, CP6011 and CP6500V

Note 3
When using a 2.16 backplane, J7 is removed.

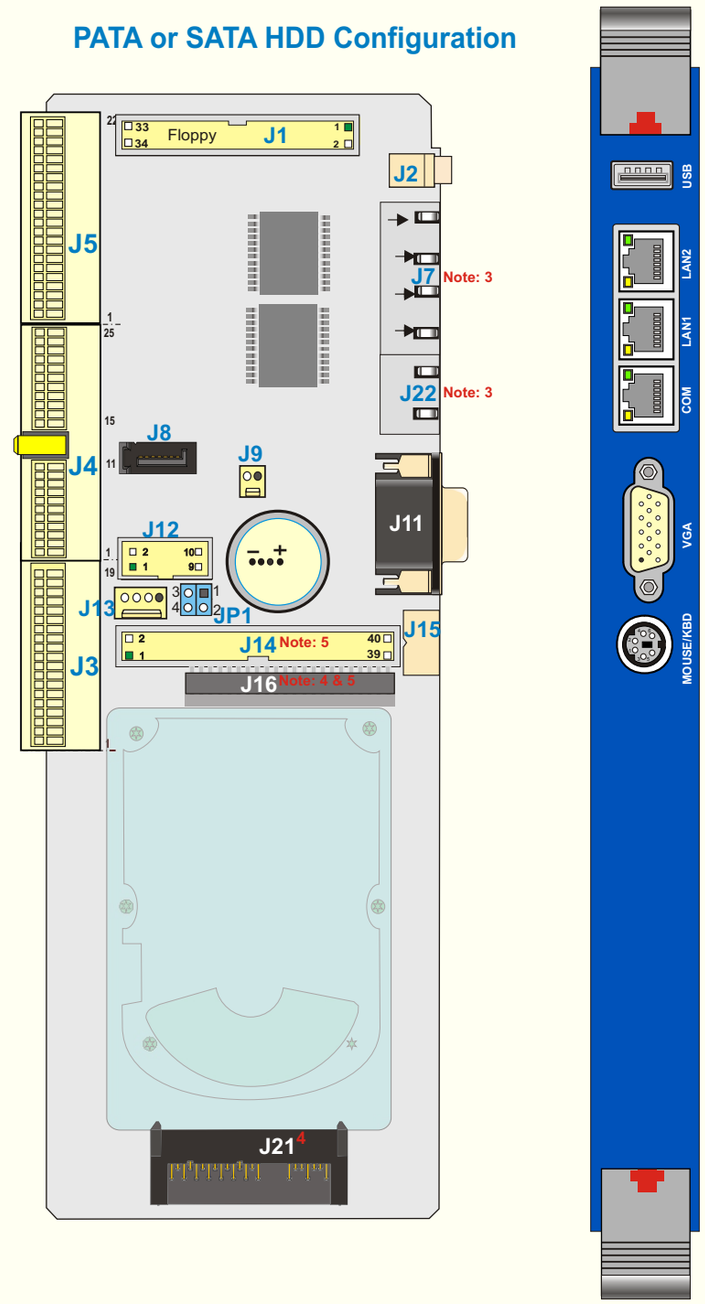
Note 4
J16 is populated with PATA HDD option
J21 is populated with SATA HDD option
J17 and J18 are populated with SCSI option

Note 5
- If no device are connected to J16, you can connect two devices on J14.

SCSI Configuration



PATA or SATA HDD Configuration



Connector Pinouts

CTM80-3

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J3 - CompactPCI I/O

	ROW A	ROW B	ROW C	ROW D	ROW E
1	COM1:RTS	COM1:RX	COM1:DSR	COM1:DCD	ID1
2	COM1:RI	COM1:DTR	COM1:CTS	COM1:TX	MOUSE:CLK
3	COM2:RTS	COM2:RX	COM2:DSR	COM2:DCD	MOUSE:DATA
4	COM2:RI	COM2:DTR	COM2:CTS	COM2:TX	KB:DATA
5	VGA:BLUE	VGA:HSYNC	VGA:VSYNC	VGA:SCL	KB:CLK
6	VGA:RED	VGA:GREEN	VGA:SDA	POST:CLK	POST:DATA
7	ID0	ID2	ID3	ID4	SPEAKER
8	USB0:DATA-	USB0:DATA+	RSV	RSV	RSV
9	USB1:DATA-	USB1:DATA+	RSV	RSV	RSV
10	USB1:VCC	USB0:VCC	RSV	RSV	RSV
11	LAN2:ERX+	LAN2:ERX-	RSV	RSV	RSV
12	LAN2:ETX+	LAN2:ETX-	RSV	RSV	RSV
13	LAN0:ACT	LAN1:ACT	RSV	LAN2:ACT#	RSV
14	LAN0:LINK	LAN1:LINK	LAN:CT	LAN2:LINK#	RSV
15	LAN1:DB+	LAN1:DB-	GND	LAN1:DD+	LAN1:DD-
16	LAN1:DA+	LAN1:DA-	GND	LAN1:DC+	LAN1:DC-
17	LAN0:DB+	LAN0:DB-	GND	LAN0:DD+	LAN0:DD-
18	LAN0:DA+	LAN0:DA-	GND	LAN0:DC+	LAN0:DC-
19	VCC	VCC	VCC3	+12V	-12V

J5 - CompactPCI I/O

	ROW A	ROW B	ROW C	ROW D	ROW E
1	GND	GND	GND	GND	GND
2	SATA_TX0+	SATA_TX0-	GND	SATA_RX0+	SATA_RX0-
3	GND	GND	GND	GND	GND
4	SATA_TX1+	SATA_TX1-	GND	SATA_RX1+	SATA_RX1-
5	GND	GND	GND	GND	GND
6	RSV	RSV	GND	RSV	RSV
7	GND	GND	GND	GND	GND
8	RSV	RSV	GND	RSV	RSV
9	GND	GND	GND	GND	GND
10	FD:MSEN0	FD:MSEN1	GND	RSV	RSV
11	FD: MTR0#	FD: INDEX#	GND	FD: FDEDIN#	FD: DENSEL#
12	FD: DIR#	FD: MTR1#	GND	FD: DSEL0#	FD : DSEL1#
13	FD: TRK0#	FD: WGATE#	GND	FD: WDATA#	FD: STEP#
14	FD: DSKCHG#	FD: HDSEL#	GND	FD: RDATA#	FD: WRPROT#
15	IDE:D6	IDE:D8	GND	IDE:D7	IDE:RESET#
16	IDE:D4	IDE:D10	GND	IDE:D5	IDE:D9
17	IDE:D2	IDE:D12	GND	IDE:D3	IDE:D11
18	IDE:D0	IDE:D14	GND	IDE:D1	IDE:D13
19	IDE:IOR#	IDE:IOW#	GND	IDE:REQ	IDE:D15
20	N.C.	IDE:IRQ	GND	IDE:ACK#	IDE:IORDY
21	IDE:A2	IDE:A0	GND	IDE:A1	IDE:DIAG#
22	IDE:ACT#	IDE:CS3#	GND	IDE:CS1#	RSV

J1 - Floppy Disk

Odd Pin Number	
1-27, 31-33	GND
4, 29	N.C.

Even Pin Number	
2	DENSEL#
6	FDEDIN#

8	INDEX#	22	WDATA#
10	MTR0#	24	WGATE#
12	DSEL1#	26	TRK0#
14	DSEL0#	28	WRPROT#
16	MTR1#	30	RDATA#
18	DIR#	32	HDSEL#
20	STEP#	34	DSKCHG#

J14 - IDE Connector (PATA)
J16 - IDE Hard Disk

Odd Pin Number							
1	RST#	25	IOR#	39	ACT#	30	GND
3-17	D7-D0	27	IOCHRDY	Even Pin Number		32	N.C.
19	GND	29	DMACK#	2,22-26	GND	34	DIAG#
21	REQ	31	IRQ	4-18	D8-D15	36	A2
23	IOW#	33, 35	A1, A0	20	N.C.	38	CS 3 #
		37	CS0#	28	CSEL	40	GND
				41	VCC	42	VCC
				43	GND	44	N.C.

J16 only

J4 - PIM SCSI Ultra 160/320 connections

	ROW A	ROW B	ROW C	ROW D	ROW E
1	D12+	D12-	GND	D13+	D13-
2	D14+	D14-	GND	D15+	D15-
3	GND	GND	GND	GND	GND
4	DPH+	DPH-	GND	D0+	D0-
5	D1+	D1-	GND	D2+	D2-
6	GND	GND	GND	GND	GND
7	D3+	D3-	GND	D4+	D4-
8	D5+	D5-	GND	D6+	D6-
9	GND	GND	GND	GND	GND
10	D7+	D7-	GND	DPL+	DPL-
11	DIFFSENS	TERMPWR7	GND	TERMPWR8	TERMPWR9
12					
13	Key Area				
14					
15	TERMPWR3	TERMPWR4	GND	TERMPWR5	TERMPWR6
16	TERMPWR1	TERMPWR2	GND	ATN+	ATN-
17	GND	GND	GND	GND	GND
18	BSY+	BSY-	GND	ACK+	ACK-
19	RST+	RST-	GND	MSG+	MSG-
20	GND	GND	GND	GND	GND
21	SEL+	SEL-	GND	CD+	CD-
22	REQ+	REQ-	GND	IO+	IO-
23	VCC	VCC	GND	VCC3	VCC3
24	D8+	D8-	GND	D9+	D9-
25	D10+	D10-	GND	D11+	D11-

J17, J18 - SCSI

1	D12+	35	D12-
2	D13+	36	D13-
3	D14+	37	D14-
4	D15+	38	D15-
5	DPH+	39	DPH-
6	D0+	40	D0-
7	D1+	41	D1-
8	D2+	42	D2-
9	D3+	43	D3-
10	D4+	44	D4-
11	D5+	45	D5-
12	D6+	46	D6-
13	D7+	47	D7-
14	DPL+	48	DPL-
15	GND	49	GND
16	DIFFSENS	50	DIFFSENS
17	TERMPWR	51	TERMPWR
18	TERMPWR	52	TERMPWR
19	N.C.	53	N.C.
20	GND	54	GND
21	ATN+	55	ATN-
22	GND	56	GND
23	BSY+	57	BSY-
24	ACK+	58	ACK-
25	RESET+	59	RESET-
26	MSG+	60	MSG-
27	SEL+	61	SEL-
28	CD+	62	CD-
29	REQ+	63	REQ-
30	IO+	64	IO-
31	D8+	65	D8-
32	D9+	66	D9-
33	D10+	67	D10-
34	D11+	68	D11-

J11 - Video SVGA

Row 1 (1-5)		9	N.C.
1	RED	10	GND
2	GREEN	Row 3 (11-15)	
3	BLUE	11	N.C.
4	N.C.	12	SDATA
5	GND	13	HSYNC
Row 2 (6-10)		14	VSYNC
6-8	A_GND	15	SCLK

J22 - COM (RJ45)

1	RTS	2	DTR
3	TXD	4	DCO
5	GND	6	RXD
7	DSR	8	CTS

J21 - Serial ATA

S1	GND	P1	3.3V
S2	TX+	P2	3.3V
S3	TX-	P3	3.3V
S4	GND	P4	GND
S5	RX-	P5	GND
S6	RX+	P6	GND
S7	GND	P7	5V
		P8	5V
		P9	5V
		P10	GND
		P11	RSV
		P12	GND
		P13	12V
		P14	12V
		P15	12V

J7 - Ethernet

1	MDI0+	5	MDI2-
2	MDI0-	6	MDI1-
3	MDI1+	7	MDI3+
4	MDI2+	8	MDI3-

J12 - Serial Port

DCD	1	2	DSR
RXD	3	4	RTS
TXD	5	6	CTS
DTR	7	8	RI
GND	9	10	N.C.

J13 - POST Code

3.3V	1
DATA	2
CLOCK	3
GND	4

J15 - PS/2 KBD / Mouse

1	KB:DATA	4	VCC
2	MOUSE:DATA	5	KB:CLK
3	GND	6	MOUSE:CLK

J8 - Serial ATA

1	GND	5	RX-
2	TX+	6	RX+
3	TX-	7	GND
4	GND		

J9 - Speaker

5V	1
Speaker	2

J2 - USB

VCC	1
DATA-	2
DATA+	3
GND	4

The Quick Reference can be downloaded from Kontron web site at:
http://www.kontron.com
or from Kontron FTP site at:
ftp://ftp.kontron.ca/Support/

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