

CONNECTORS

J1-J3, J5	CompactPCI	J13	CompactFlash
J4, J11	Ethernet 1, 2	J15-J17	Memory Modules
J6	* CPU Fan	J18	Mouse / Keyboard
J8	Video (SVGA)	J19	Storage Mezzanine
J10	Serial Ports	J20,J21	PMC
J12	* PMC Mezzanine	J22	Hot Swap Switch
		S1	Reset Button

* Optional

JUMPER SETTINGS (* : Default Setting)

W1- Board Configuration	
Rear Access	in
Front Access	out

 W6 - VT- 100 or User Defined	
Enable	in
* Disable	out

● W2 - Remote Reset	
Reset by Com1 note 1	1-2
Reset by Com2	3-4
* Disable	none

 W7- Video Enable	
Disable	in
* Enable	out

W3 - Bridge	
Bridge disabled, stand alone	in
* Bridge enabled, normal mode	out

W9, W10 - COM2 Terminations		
RS-422/485 modes only	W9	W10
With termination	in	in
* Without termination	out	out

 W4 - Battery	
Connected	in
* Disconnected	out

W11 - Compact Flash Disk	
Master	in
* Slave	out

NOTE 1 : When using Remote Reset, the jumper W2 must be at either position 1-2 or 2-3, never use both at same time.

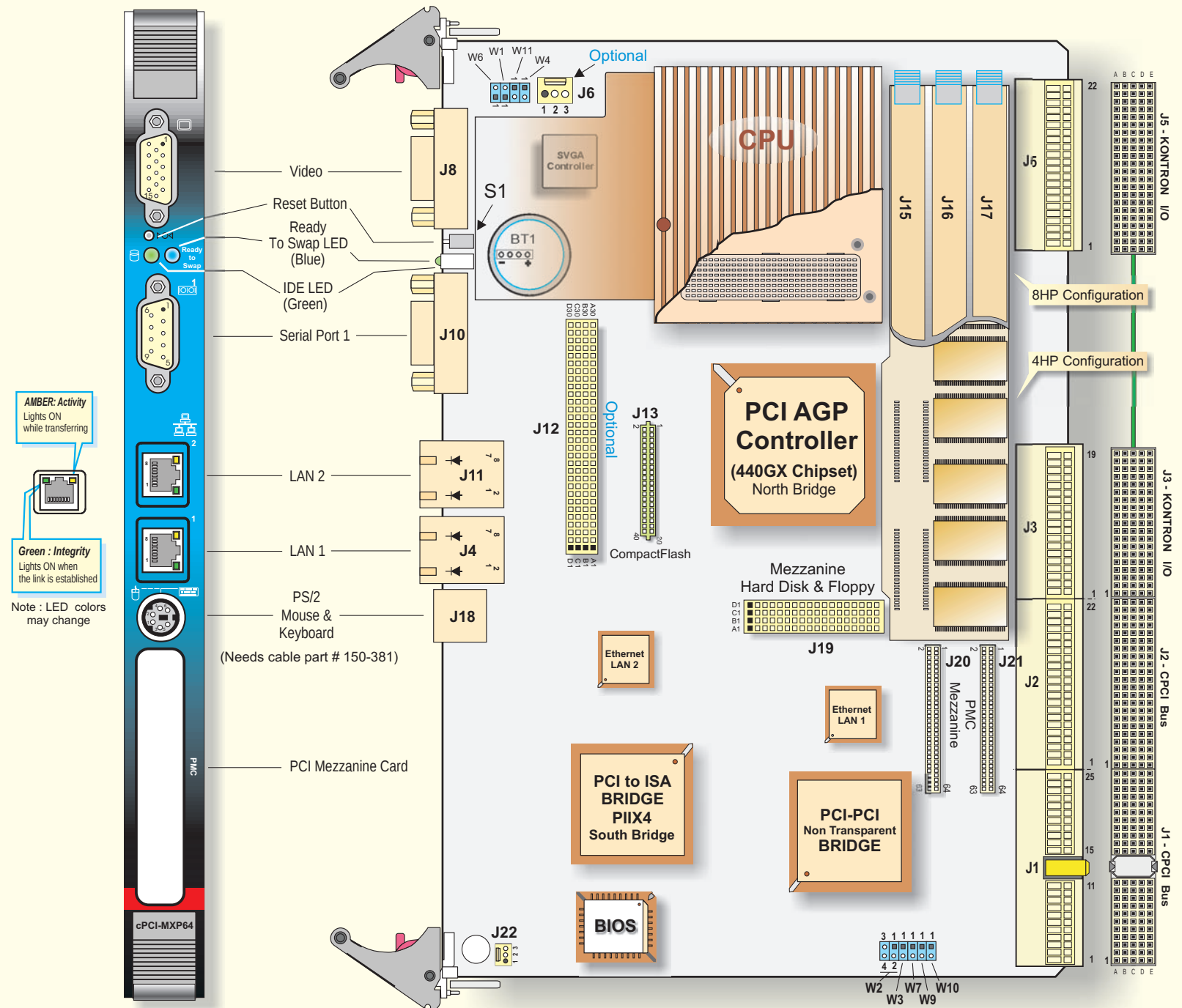
First Level Debugging

Blue LED always ON

1. Remove all peripheral and external connections.
2. Verify if the board is in the correct CPCI slot.
3. Verify the power supply.

Blue LED OFF

1. Check the jumper settings
2. Check the memory



Connector Pinouts

cPCI-MXP64GX

Board Rev. 0

Document 1.2

Faceplate Configurations

J1 - CompactPCI Bus

	ROW A	ROW B	ROW C	ROW D	ROW E
1	VCC5E	-12VE	RSV.	+12VE	VCC6E
2	RSV	VCC6E	RSV	RSV	RSV
3	INTA#	INTB#	INTC#	VCC6E	INTD#
4	IPMB_PWR	HEALTHY#	VIO	RSV	RSV
5	BRSV	BRSV	RST#	GND	GNT#
6	REQ#	GND	VCC3E	P_CLK	AD31
7	AD30	AD29	AD28	GND	AD27
8	AD26	GND	VIO	AD25	AD24
9	CBE3#	IDSEL	AD23	GND	AD22
10	AD21	GND	VCC3E	AD20	AD19
11	AD18	AD17	AD16	GND	CBE2#
15	VCC3E	FRAME#	IRDY#	BD_SEL#	TRDY#
16	DEVSEL#	GND	VIO	STOP#	LOCK#
17	VCC3E	IPMB_SCL	IPMB_SDA	GND	PERR#
18	SERR#	GND	VCC3E	PAR	CBE1#
19	VCC3E	AD15	AD14	GND	AD13
20	AD12	GND	VIO	AD11	AD10
21	VCC3E	AD9	AD8	M66EN	CBE0#
22	AD7	GND	VCC3E	AD6	AD5
23	VCC3E	AD4	AD3	VCC6E	AD2
24	AD1	VCC6E	VIO	AD0	ACK64#
25	VCC6E	REQ64#	ENUM#	VCC3E	VCC6E

Long Pins

Short Pins

J3 - CompactPCI I/O

	ROW A	ROW B	ROW C	ROW D	ROW E
1	RSV	RSV	RSV	RSV	GND
2	GND	RSV	GND	RSV	GND
3	LAN0.ETX-	VCC	RSV	RSV	RSV
4	RSV	RSV	LAN0.ERX-	RSV	RSV
5	LAN0.ETX+	GND	LAN0.ERX+	GND	RSV
6	LAN0.SPLED	LAN0.LINKLED	LAN0.ACTLED	LAN1.LINKLED	LAN1.SPLED
7	LAN1.ACTLED	SD7	SD6	SD5	SD4
8	GND	VCC	VCC	SD3	SD2
9	LAN1.ETX+	LAN1.ETX-	LAN0.ERX+	LAN1.ERX-	GND
10	GND	WR_80#	SD1	+12V	+12V
11	RSV	GND	RSV	RSV	RSV
12	RSV	RSV	RSV	VCC	RSV
13	RSV	VCC	RSV	RSV	RSV
14	RSV	RSV	RSV	RSV	RSV
15	RSV	RSV	RSV	SD0	RSV
16	RSV	RSV	RSV	RSV	RSV
17	RSV	RSV	RSV	RSV	RSV
18	RSV	RSV	HDO_ACT#	COM2.IRRX	COM2.IRTX
19	RSV	RSV	RSV	RSV	RSV

J20 - PCI Mezzanine Card (PMC)

1	N.C.	33	FRAME#	2	-12V	34	GND
3	GND	35	GND	4	INTA#	36	IRDY#
5	INTB#	37	DEVSEL#	6	INTC#	38	VCC
7	BMode1#	39	GND	8	VCC	40	LOCK#
9	INTD#	41	SDone	10	N.C.	42	SBO#
11	GND	43	PAR	12	N.C.	44	GND
13	PCLK	45	VCC	14	GND	46	AD15
15	GND	47	AD12	16	GNT#	48	AD11
17	REQ#	49	AD9	18	VCC	50	VCC
19	VCC	51	GND	20	AD31	52	CBE0#
21	AD28	53	AD6	22	AD27	54	AD5
23	AD25	55	AD4	24	GND	56	GND
25	GND	57	VCC	26	CBE3#	58	AD3
27	AD22	59	AD2	28	AD21	60	AD1
29	AD19	61	AD0	30	VCC	62	VCC
31	VCC	63	GND	32	AD17	64	N.C.

J21 - PCI Mezzanine Card (PMC)

1	+12V	33	GND	2	N.C.	34	N.C.
3	N.C.	35	IRDY#	4	N.C.	36	VCC3
5	N.C.	37	GND	6	GND	38	STOP#
7	GND	39	PERR#	8	N.C.	40	GND
9	N.C.	41	VCC3	10	N.C.	42	SERR#
11	BMode2#	43	CBE1#	12	VCC3	44	GND
13	PCIRST#	45	AD14	14	BMode3#	46	AD13
15	VCC3	47	GND	16	BMode4#	48	AD10
17	N.C.	49	AD8	18	GND	50	VCC3
19	AD30	51	AD7	20	AD29	52	N.C.
21	GND	53	VCC3	22	AD26	54	N.C.
23	AD24	55	N.C.	24	VCC3	56	GND
25	IDSEL	57	N.C.	26	AD23	58	N.C.
27	VCC3	59	GND	28	AD20	60	N.C.
29	AD18	61	N.C.	30	GND	62	VCC3
31	AD16	63	GND	32	CBE2#	64	N.C.

J13 - CompactFlash

1	D11	2	GND
3	D12	4	D3
5	D13	6	D4
7	D14	8	D5
9	D15	10	D6
11	CS1#	12	D7
13	DMACK#	14	CS0#
15	DMARQ	16	IOR#
17	PDIAQ#	18	IOW#
19	IRQ15	20	VCC
21	VCC	22	VCC
23	GND	24	GND
25	RESET#	26	GND
27	CSEL	28	A2
29	A1	30	DASP#
31	A0	32	IORDY
33	D0	34	D8
35	D1	36	D9
37	D2	38	D10
39	IOCS16#	40	GND

J2 - CompactPCI Bus

	ROW A	ROW B	ROW C	ROW D	ROW E
1	RSV	GND	RSV	RSV	RSV
2	RSV	RSV	SYSEN#	RSV	RSV
3	RSV	GND	RSV	RSV	RSV
4	VIO	BRSV	CBE7	GND	CBE6#
5	CBE5#	64EN#	VIO	CBE4#	PAR64
6	AD63	AD62	AD61	GND	AD60
7	AD59	GND	VIO	AD58	AD57
8	AD56	AD55	AD54	GND	AD53
9	AD52	GND	VIO	AD51	AD50
10	AD49	AD48	AD47	GND	AD46
11	AD45	GND	VIO	AD44	AD43
12	AD42	AD41	AD40	GND	AD39
13	AD38	GND	VIO	AD37	AD36
14	AD35	AD34	AD33	GND	AD32
15	BRSV	GND	FAL#	RSV	RSV
16	BRSV	BRSV	DEG#	GND	BRSV
17	BRSV	GND	RSV	RSV	RSV
18	BRSV	BRSV	BRSV	GND	BRSV
19	RSV	RSV	RSV	RSV	RSV
20	RSV	RSV	RSV	GND	RSV
21	RSV	RSV	RSV	RSV	RSV
22	GA4	GA3	GA2	GA1	GA0

J4, J11 - Ethernet 1 & 2

1	TX+	5	RJ1
2	TX-	6	RX-
3	RX+	7	RJ2
4	RJ1	8	RJ2

J6 - CPU FAN (optional)

1	Sense
2	+5V
3	GND

J10 - Serial 1 - RS-232

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

J8 - 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	VSYN
6-8	A_GND	15	SCLK

J18 - PS/2 Keyb. & Mouse

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

J22 - Hot Swap Switch

1	VCC3E
2	SW_OPEN#
3	GND

Jumper Configuration for the cTM80 STD1&2S

Jumper	Setting
W1-W7: Video	1-2 (J5)
W8: H110	1-2
W9: SCSI	OFF
W10: LAN1-TXC	ON
W12: LAN1-RXC	OFF
W13: LAN0-TXC	ON
W18: LAN0-RXC	OFF
W14-W17: LAN0	1-2 (J3)

I/O MAPPING

000-01F	DMA Controller 1
020-03F	Interrupt controller 1
040-05F	Timer
060-06F	Keyboard
070-07F	Real Time Clock
080-09F	DMA Page Register
0A0-0BF	Interrupt controller 2
0C0-0DF	DMA controller 2
0F0-0FF	Math Coprocessor
190-19F	
290-29F	Kontron Control Port
390-39F	
170-177, 376	Secondary IDE
1F0-1F7, 3F6	Primary IDE
278-27A	Parallel Port (option)
2F8-2FF	COM2
370-377	Floppy Disk (option)
378-37A	Parallel Port (LPT1)
3BC-3BE	Parallel Port (option)
3F0-3F7	Floppy Disk
3F8-3FF	COM1
3C0-3CF/3D0	
3DF/3B0-3BB	Graphic Controller

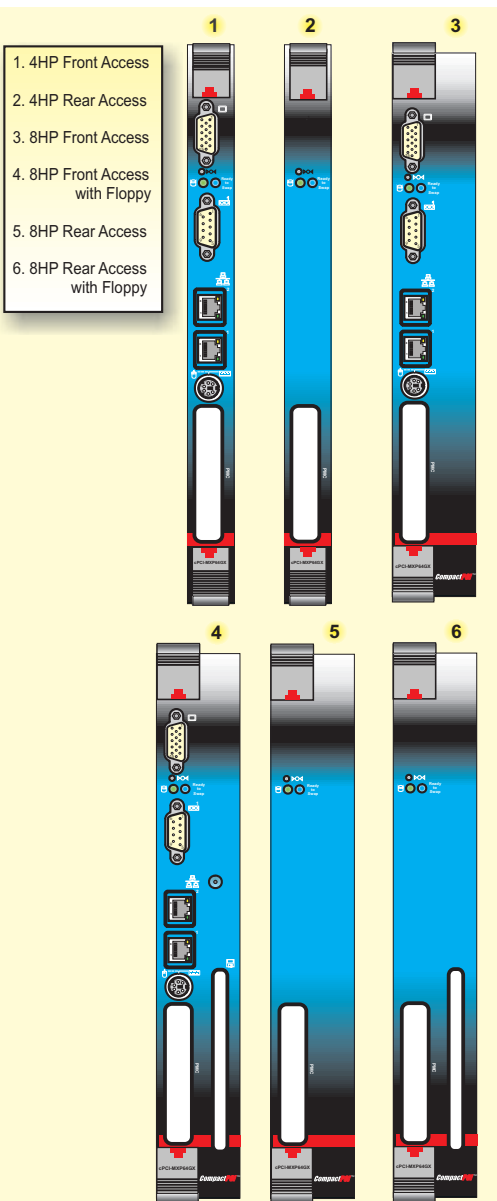
MEMORY MAPPING

00000-9FFFF	0-640KB DRAM
A0000-BFFFF	Video DRAM
C0000-CBFFF	Video BIOS
CC000-DFFFF	Optional BIOS
E0000-FFFFF	Main BIOS
100000 to top	1MB to top of RAM

The Technical Reference Manual and Quick Reference Sheet can be downloaded from the Kontron Web site at:
<http://www.kontron.com>
or from our FTP site at:
<ftp://ftp.kontron.ca/Support>

For Technical Support please contact:

- Internet : www.kontron.com
- E-Mail : support@ca.kontron.com
- Fax : (450) 437-8053
- Tel : (800) 354-4223



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