

## 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 <small>note 1</small>	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.

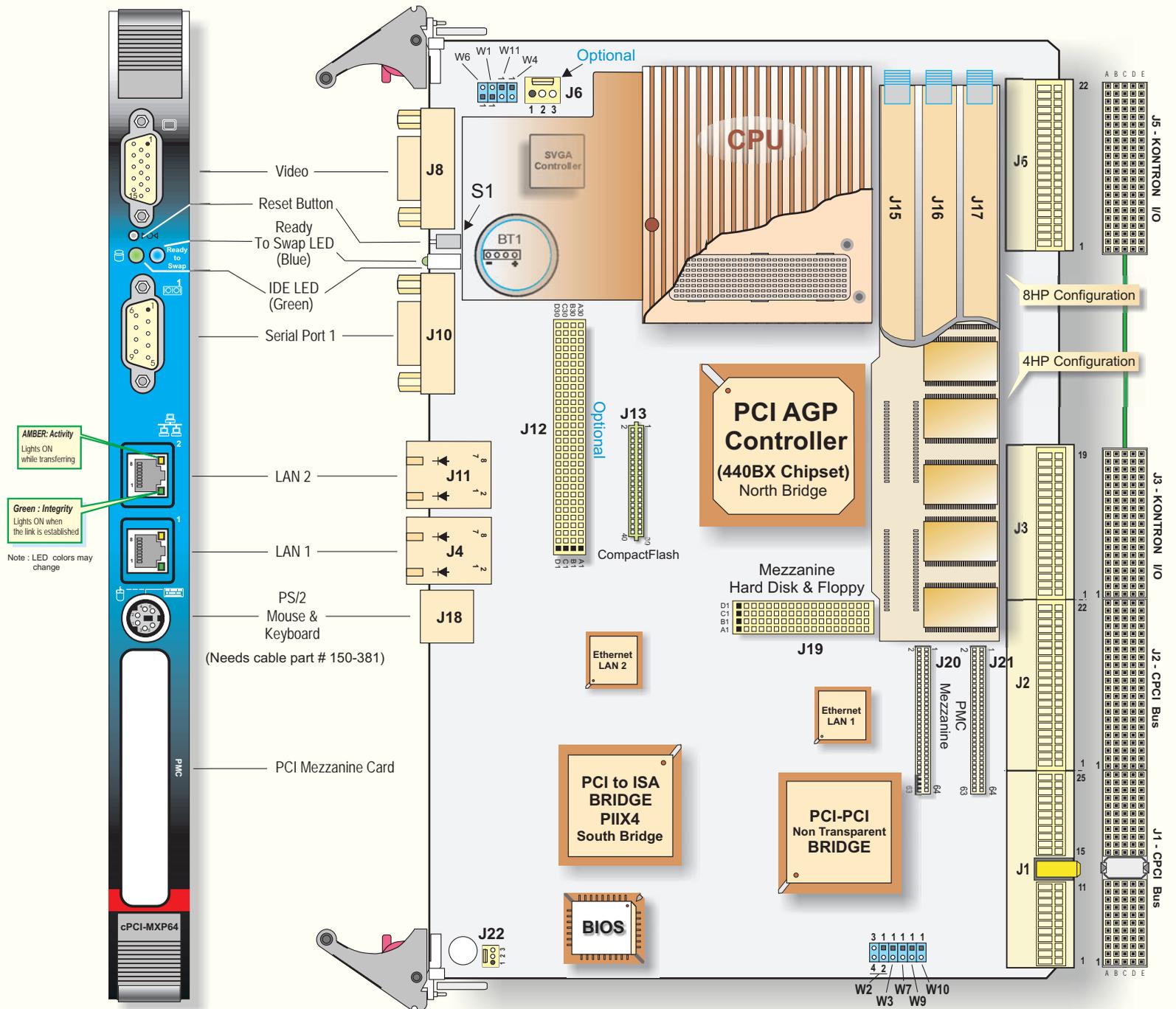
### First Level Debugging

**Blue LED always ON**

**Blue LED OFF**

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

1. Check the jumper settings
2. Check the memory



# Connector Pinouts

# cPCI-MXP64

Document version 1.4

# 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	REC64#	ENUM#	VCC3E	VCC6E

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.FRX-	RSV	RSV
5	LAN0.ETX+	GND	LAN0.FRX+	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-	LAN1.FRX+	LAN1.FRX-	GND
10	GND	WR 80#	SD1	+12V	+12V
11	RSV	GND	RSV	RSV	RSV
12	RSV	RSV	RSV	VCC	RSV
13	RSV	VCC	RSV	VCC	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	2	3	4	5	6
1	N.C.	33	FRAME#	2	-12V
3	GND	35	GND	4	INTA#
5	INTB#	37	DEVSEL#	6	INTC#
7	BMode1#	39	GND	8	VCC
9	INTD#	41	SDone	10	N.C.
11	GND	43	PAR	12	N.C.
13	PCLK	45	VCC	14	GND
15	GND	47	AD12	16	GNT#
17	REQ#	49	AD9	18	VCC
19	VCC	51	GND	20	AD31
21	AD28	53	AD6	22	AD27
23	AD25	55	AD4	24	GND
25	GND	57	VCC	26	CBE3#
27	AD22	59	AD2	28	AD21
29	AD19	61	AD0	30	VCC
31	VCC	63	GND	32	AD17

J21 - PCI Mezzanine Card (PMC)					
1	2	3	4	5	6
1	+12V	33	GND	2	N.C.
3	N.C.	35	IRDY#	4	N.C.
5	N.C.	37	GND	6	GND
7	GND	39	PERR#	8	N.C.
9	N.C.	41	VCC3	10	N.C.
11	BMode2#	43	CBE1#	12	VCC3
13	PCIRST#	45	AD14	14	BMode3#
15	VCC3	47	GND	16	BMode4#
17	N.C.	49	AD8	18	GND
19	AD30	51	AD7	20	AD29
21	GND	53	VCC3	22	AD26
23	AD24	55	N.C.	24	VCC3
25	IDSEL	57	N.C.	26	AD23
27	VCC3	59	GND	28	AD20
29	AD18	61	N.C.	30	GND
31	AD16	63	GND	32	CBE2#

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

J5 - CompactPCI I/O					
ROW A	ROW B	ROW C	ROW D	ROW E	
1	IDE0.RST#	IDE0.RST#	IDE0.D7	IDE0.D8	IDE0.D6
2	IDE0.D9	IDE0.D5	IDE0.D10	IDE0.D4	IDE0.D11
3	IDE0.D3	IDE0.D12	IDE0.D2	IDE0.D13	IDE0.D1
4	IDE0.D14	IDE0.D0	USB1.GND	IDE0.D15	IDE0.IRQ14
5	IDE0.REQ	IDE0.IOW#	IDE0.IOW#	IDE0.DACK#	IDE0.IOR#
6	IDE0.IO16	VGA.VSYNC	IDE0.DIAG#	IDE0.A0	IDE0.A2
7	IDE0.CS1#	IDE0.CS3#	IDE0.A1	RSV	FD.DRVEN0#
8	FD.DRVEN1#	FD.INDEX#	FD.MTR0#	FD.DS1#	FD.DS0#
9	FD.MTR1#	FD.DIR#	FD.STEP#	FD.WDATA#	FD.WGATE#
10	FD.TRK0	FD.WRPROT#	FD.RDATA#	FD.HDSEL#	FD.DSKCHG#
11	COM2.DCD	VGA.BLUE	COM2.RXD	COM2.DSR	COM2.TXD
12	COM2.RTS	COM2.CTS	COM2.RI	H110EN#	COM2.DTR
13	COM1.DCD	VCC	COM1.RXD	COM1.DSR	COM1.TXD
14	COM1.RTS	COM1.CTS	COM1.RI	VGA.HSYNC	COM1.DTR
15	LPT.SLCT	LPT.PE	LPT.BUSY	LPT.ACK#	LPT.D7
16	LPT.D6	LPT.D5	LPT.D4	LPT.D3	LPT.SLCTIN#
17	LPT.D2	LPT.INIT#	LPT.D1	LPT.ERR#	LPT.D0
18	LPT.ALFF#	USB1.DATA+	USB1.DATA-	USB0.GND	USB0.VCC
19	LPT.STB#	USB1.GND	USB1.VCC	USB0.DATA+	USB0.DATA-
20	VGA.SCLK	SMBDATA	SMBALERT#	VGA.RED	SMBCLK
21	KB.DATA	KB.CLK	KB.VCC	MOUSE.DATA	MOUSE.CLK
22	PBRST#	VGA.GREEN	DIAG_OC#	VGA.SDATA	SPEAKER

J4, J11 - Ethernet 1 & 2			J22 - Hot Swap Switch		
1	TX+	5	RJ11	1	VCC3E
2	TX-	6	RX-	2	SW_OPEN#
3	RX+	7	RJ2	3	GND
4	RJ11	8	RJ2		

J18 - PS/2 Keyb. & Mouse					
1	KB:DATA	4	VCC		
2	MOUSE:DATA	5	KB:CLK		
3	GND	6	MOUSE:CLK		

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				

Lines terminated with 75 ohm resistors

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

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
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

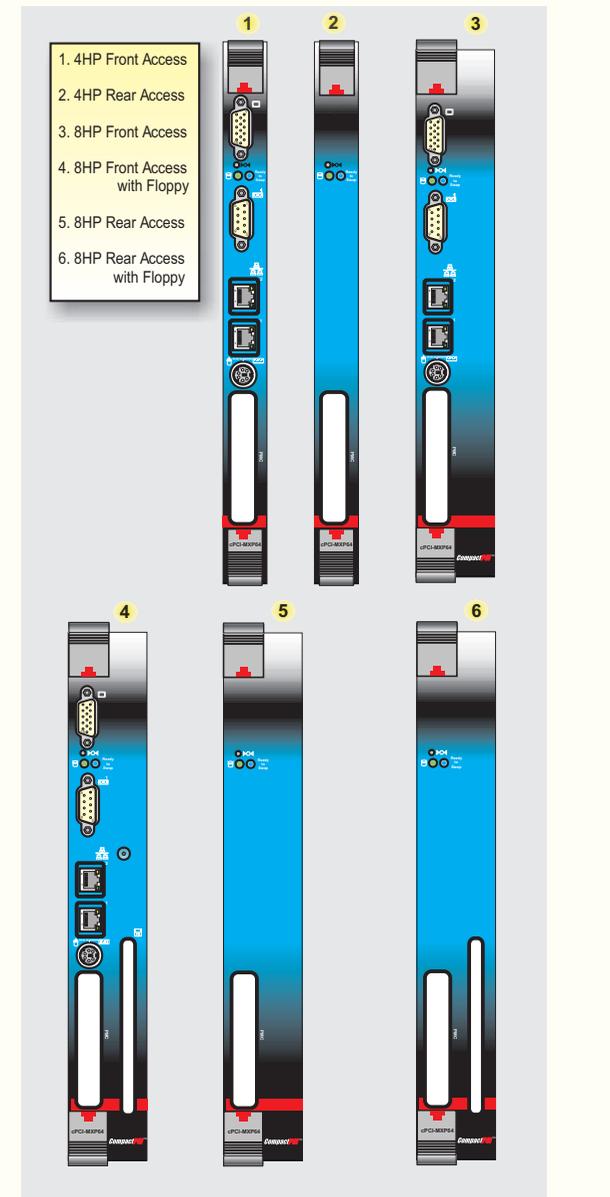
  

MEMORY MAPPING	
00000-9FFFF	0-640KB DRAM
A0000-BFFFF	Video DRAM
C0000-CBFFF	Video BIOS
CC000-DFFFF	Optional BIOS
E0000-FFFFF	Main BIOS
100000 to top	1MB to top of RAM

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)

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 VSYNC
6-8 A_GND	15 SCLK



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