

eBP-11A4B6

11-Slot ePCI Active Backplane

Board Rev. 0



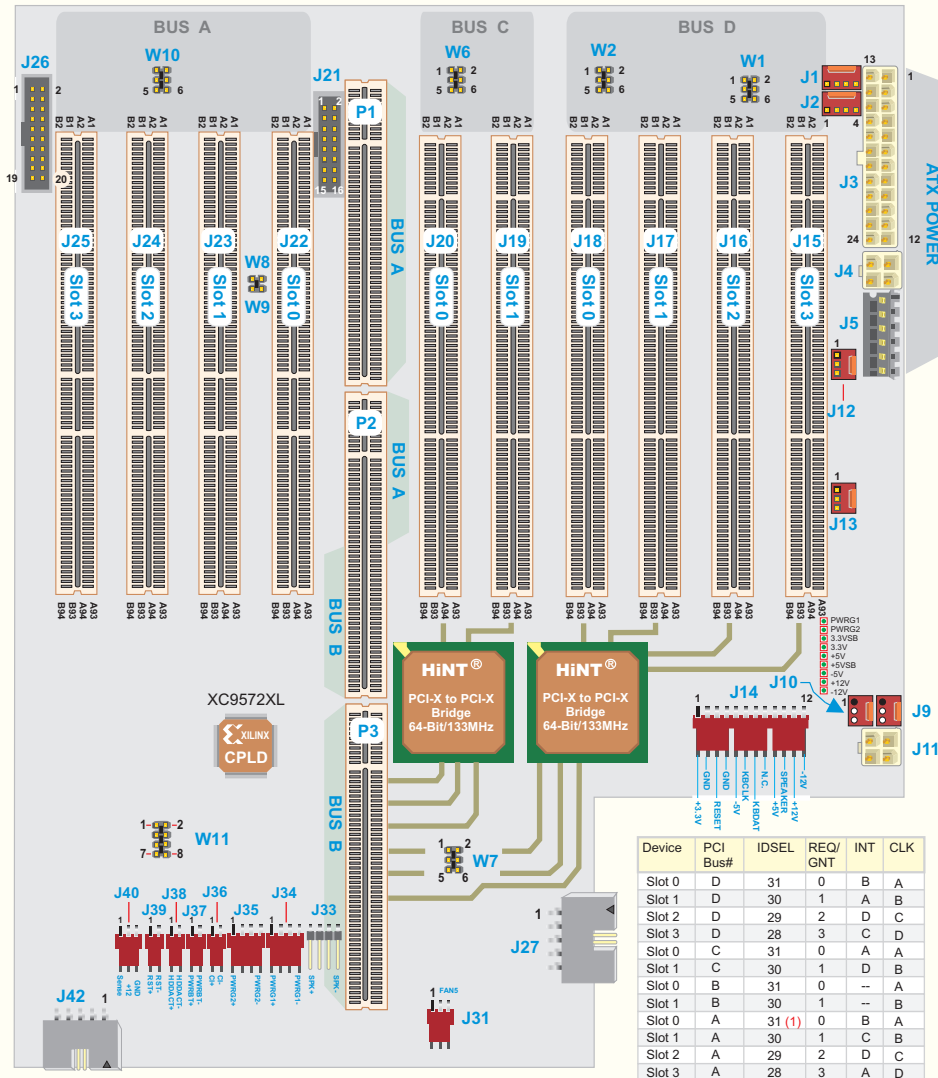
QUICK REFERENCE

Version 1.3

First Level Debugging



- If +12V is needed to power the SHB : Either connect +12V power supply cable in +12V SHB connector or in J4 and/or J7 of backplane. For single host power by backplane connect J11 with SHB +12V connector with a custom cable.
- Remove all peripheral boards and SHB
- Remove all cables from backplane.
- Make sure that all the power LEDs are ON.
- If ok, re-insert SHB and all I/O boards in backplane, reinstall all cables, and set all bus in SAFE MODE (see setting jumpers) and reboot.
- To get maximum speed check the SHB and I/O maximum speed limit. CPLD can also affect the bus speed by either safe/autodetect mode jumper setting or the position of I/O cards into slots. Make sure that BUS speed jumpers are removed.



Connector Pinouts

eBP-11A4B6

QR Ver. 1.3

Board Rev. 0

J1 - PS/2 Mouse

1	MOUSE:CLK
2	GND
3	MOUSE:DATA
4	VCC

J2 - PS/2 Keyboard

1	KB:CLK
2	GND
3	KB:DATA
4	VCC

J4, J11 +12ATX

1	GND
2	GND
3	+12V CPU
4	+12V CPU

J5 - Aux Power

GND	1	4	+3.3V
GND	2	5	+3.3V
GND	3	6	VCC

J3 - ATX Power Supply (24-pins)

1	VCC3	13	VCC3
2	VCC3	14	-12V
3	GND	15	GND
4	VCC	16	PS_ON#
5	GND	17	GND
6	VCC	18	GND
7	GND	19	GND
8	PWR_OK	20	-5V
9	5VSB	21	VCC
10	12V	22	VCC
11	+12V	23	VCC
12	VCC3	24	GND

J12, 9, 13, 40, 31, 10 FANS 1-6

1	SENSE
2	+12V
3	GND

J33 - Speaker

1	SPEAKER
2	N.C.
3	N.C.
4	VCC

J14 - Kontron America I/O Connector

1	VCC3	7	KB:DATA
2	GND	8	N.C.
3	PBRST#	9	VCC
4	GND	10	SPEAKER
5	-5V	11	+12V
6	KB:CLK	12	-12V

J21 - SHB KCI Multi-Function

KB:CLK	1	2	GND
KB:DATA	3	4	GND
VCC	5	6	VCC
SPEAKER	7	8	VCC
MOUSE:CLK	9	10	GND
MOUSE:DATA	11	12	GND
PBRES#	13	14	GND
IDE:ACT#	15	16	VCC

J27 - JTAG

GND	1	6	TDI
TMS	2	7	VCC
JTAGEN	3	8	N.C.
TCK	4	9	TDO
N.C.	5	10	GND

J42 - External Event

VCC	1	6	FANFLT#
CPUFLT#	2	7	GND
VCC	3	8	GPIO1/SMBDAT
APFLT#	4	9	GND
EXTFLT#	5	10	GPIO2/SMBCLK

J26 - SBC KCI System Monitor

GND	1	11	FANFLT#
N.C.	2	12	GND
N.C.	3	13	CHASS_INT
GND	4	14	GND
GPIO1/SMBDAT	5	15	PWRATX1_FANTACH
GPIO2/SMBCLK	6	16	PWRATX2_FANTACH
APFLT#	7	17	FAN TACH3
CPUFLT#	8	18	FAN TACH4
EXTFLT#	9	19	FAN TACH5
GND	10	20	FAN TACH6

J35 - Power Good 2 LED

1	VCC
2	N.C.
3	N.C.
4	PWR_LED#

J36 - Chassis Intrusion Switch

1	CHSS_INT
2	GND

J38 - Hard Drive LED

1	VCC
2	HD:ACT#

J37 - Power ON Button

1	PWR_BUTTON#
2	GND

J39 - RESET Button

1	PBRST#
2	GND

P1 - P3, ePCI-X SHB

P1		P2		P3	
ROW B	ROW A	ROW B	ROW A	ROW B	ROW A
1	-12V	GND	a_AD04	b_VIO	b_AD22
2	PWRGD	a_AD05	+3.3V	b_C/BE3#	GND
3	PSON#	a_AD03	a_AD02	b_AD23	b_AD21
4	TRST#	GND	a_AD00	+5V	b_AD20
5	TMS	a_AD01	GND	b_AD19	GND
6	TDO	Reserved	a_REQ64#	b_AD17	b_AD18
7	Reserved	a_PRST#	+5V	GND	b_AD16
8	+5V	Reserved	+5V	b_C/BE2#	+3.3V
9	a_INTB#	a_VIO	a_C/BE7#	b_FRAME#	
10	a_INTD#	GND	a_C/BE6#	GND	b_TRDY#
11	+5V	a_C/BE5#	GND	b_DEVSEL#	GND
Key Area					
12	+3.3Vaux	+5V	a_C/BE4#	a_PAR64	+5V
13	GND	Reserved	+5V	a_AD62	b_LOCK#
14	Reserved	a_GNT3#	a_AD63	GND	b_PERR#
15	+3.3V	GND	a_AD61	GND	b_PAR
16	a_REQ3#	a_GNT2#	GND	a_AD58	b_SERR#
17	a_REQ2#	a_GNT1#	+3.3V	b_C/BE1#	b_AD15
18	GND	+3.3V	a_AD57	GND	b_AD13
19	a_REQ1#	a_RST#	GND	a_AD54	b_AD14
20	a_REQ0#	a_GNT0#	a_AD55	GND	b_AD12
21	+3.3V	GND	a_AD53	+5V	b_AD09
22	a_CLKFO	a_CLKFI	+5V	b_AD10	b_M66EN
23	GND	+3.3V	a_AD51	GND	b_AD08
24	a_CLKC	a_CLKD	a_AD49	GND	b_C/BE0#
25	+3.3V	GND	a_AD48	GND	b_AD07
26	a_CLKA	a_CLKB	+3.3V	b_AD05	+3.3V
27	GND	+3.3V	a_AD44	GND	b_AD04
28	a_AD31	PME#	GND	a_AD42	b_AD03
29	a_AD29	GND	a_AD43	GND	b_AD01
30	+5V	a_AD30	a_AD41	+5V	b_AD00
31	a_AD27	a_AD28	+5V	a_AD38	b_ACK64#
32	a_AD25	GND	a_AD39	GND	b_C/BE7#
33	GND	a_AD26	a_AD37	GND	b_C/BE6#
34	a_C/BE3#	a_AD24	GND	a_AD34	b_C/BE5#
35	a_AD23	+3.3V	a_AD35	+3.3V	b_C/BE4#
36	GND	a_AD22	a_AD33	GND	b_AD62
37	a_AD21	a_AD20	GND	b_AD63	b_AD60
38	a_AD19	GND	b_CLKC	b_AD61	GND
39	+5V	a_AD18	+3.3V	GND	+5V
40	a_AD17	a_AD16	b_CLKB	b_CLKA	b_AD59
41	a_C/BE2#	GND	GND	+3.3V	b_AD57
42	GND	a_FRAME#	b_CLKFO	GND	b_AD54
43	a_IRDY#	a_TRDY#	GND	b_AD55	b_AD52
44	a_DEVSEL#	+5V	b_INTB#	b_INTA#	b_AD53
45	+3.3V	a_PCIXCAP	b_INTD#	b_INTC#	GND
46	a_LOCK#	a_STOP#	GND	b_AD51	b_AD48
47	a_PERR#	GND	b_GNT3#	b_GNT2#	GND
48	+5V	SER_SDA	b_REQ3#	b_REQ2#	+5V
49	a_SERR#	SER_SCL	GND	+5V	b_AD47
50	a_PAR	GND	b_GNT1#	b_GNT0#	GND
51	GND	a_C/BE1#	b_REQ0#	GND	b_AD45
52	a_AD15	a_AD14	+5V	b_AD43	b_AD40
53	a_AD13	+3.3V	b_RST#	b_PRST#	b_AD41
54	GND	a_AD12	+5V	b_AD30	GND
55	a_AD11	a_AD10	b_AD31	GND	b_AD38
56	a_AD08	GND	b_AD29	b_AD37	b_AD36
57	+5V	a_AD09	GND	b_AD26	GND
58	a_AD07	a_C/BE0#	b_AD27	+3.3V	b_AD35
59	a_M66EN	GND	b_AD25	b_AD33	GND
60	RESERVED	a_AD06	GND	Reserved	Reserved
61					
62					

PCI 64-BIT

J15-J20		3.3V Environment			
ROW B	ROW A	ROW B	ROW A		
1	-12V	TRST#	49	M66EN	AD[09]
2	TCK	+12V	50	Ground	Ground
3	Ground	TMS	51	Ground	Ground
4	TDO	TDI	52	AD[08]	C/BE[0]#
5	+5V	+5V	53	AD[07]	+3.3V
6	+5V	INTA#	54	+3.3V	AD[06]
7	INTB#	INTC#	55	AD[05]	AD[04]
8	INTD#	+5V	56	AD[03]	Ground
9	PRNST1#	Reserved	57	Ground	AD[02]
10	Reserved	+3.3V (I/O)	58	AD[01]	AD[00]
11	PRNST2#	Reserved	59	+3.3V (I/O)	+3.3V (I/O)
12	Key Area		60	ACK64#	REQ64#
13			61	+5V	+5V
14	Reserved	3.3Vaux	62	+5V	+5V
15	Ground	RST#	Key Area		
16	CLK	+3.3V (I/O)			
17	Ground	GNT#	63	Reserved	Ground
18	REQ#	Ground	64	Ground	C/BE[7]#
19	+3.3V (I/O)	PME#	65	C/BE[6]#	C/BE[5]#
20	AD[31]	AD[30]	66	C/BE[4]#	+3.3V (I/O)
21	AD[29]	+3.3V	67	Ground	PAR64
22	Ground	AD[28]	68	AD[63]	AD[62]
23	AD[27]	AD[26]	69	AD[61]	Ground
24	AD[25]	Ground	70	+3.3V (I/O)	AD[60]
25	+3.3V	AD[24]	71	AD[59]	AD[58]
26	C/BE[3]#	IDSEL	72	AD[57]	Ground
27	AD[23]	+3.3V	73	Ground	AD[56]
28	Ground	AD[22]	74	AD[55]	AD[54]
29	AD[21]	AD[20]	75	AD[53]	+3.3V (I/O)
30	AD[19]	Ground	76	Ground	AD[52]
31	+3.3V	AD[18]	77	AD[51]	AD[50]
32	AD[17]	AD[16]	78	AD[49]	Ground
33	C/BE[2]#	+3.3V	79	+3.3V (I/O)	AD[48]
34	Ground	FRAME#	80	AD[47]	AD[46]
35	IRDY#	Ground	81	AD[45]	Ground
36	+3.3V	TRDY#	82	Ground	AD[44]
37	DEVSEL#	Ground	83	AD[43]	AD[42]
38	PCIXCAP	STOP#	84	AD[41]	+3.3V (I/O)
39	LOCK#	+3.3V	85	Ground	AD[40]
40	PERR#	SMBCLK	86	AD[39]	AD[38]
41	+3.3V	SMBDAT	87	AD[37]	Ground
42	SERR#	Ground	88	+3.3V (I/O)	AD[36]
43	+3.3V	PAR	89	AD[35]	AD[34]
44	C/BE[1]#	AD[15]	90	AD[33]	Ground
45	AD[14]	+3.3V	91	Ground	AD[32]
46	Ground	AD[13]	92	Reserved	Reserved
47	AD[12]	AD[11]	93	Reserved	Ground
48	AD[10]	Ground	94	Ground	Reserved

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

For Technical Support please contact:

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

M8103_QR_0