cBP-3210PR

3U 10-slot cPCI PlusIO Hybrid Backplane

Quick Reference Guide

Manual Revision:	1.00
Revision Date:	September 29, 2014
Part Number:	50-1Z163-1000

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cBP-3210PR Backplane

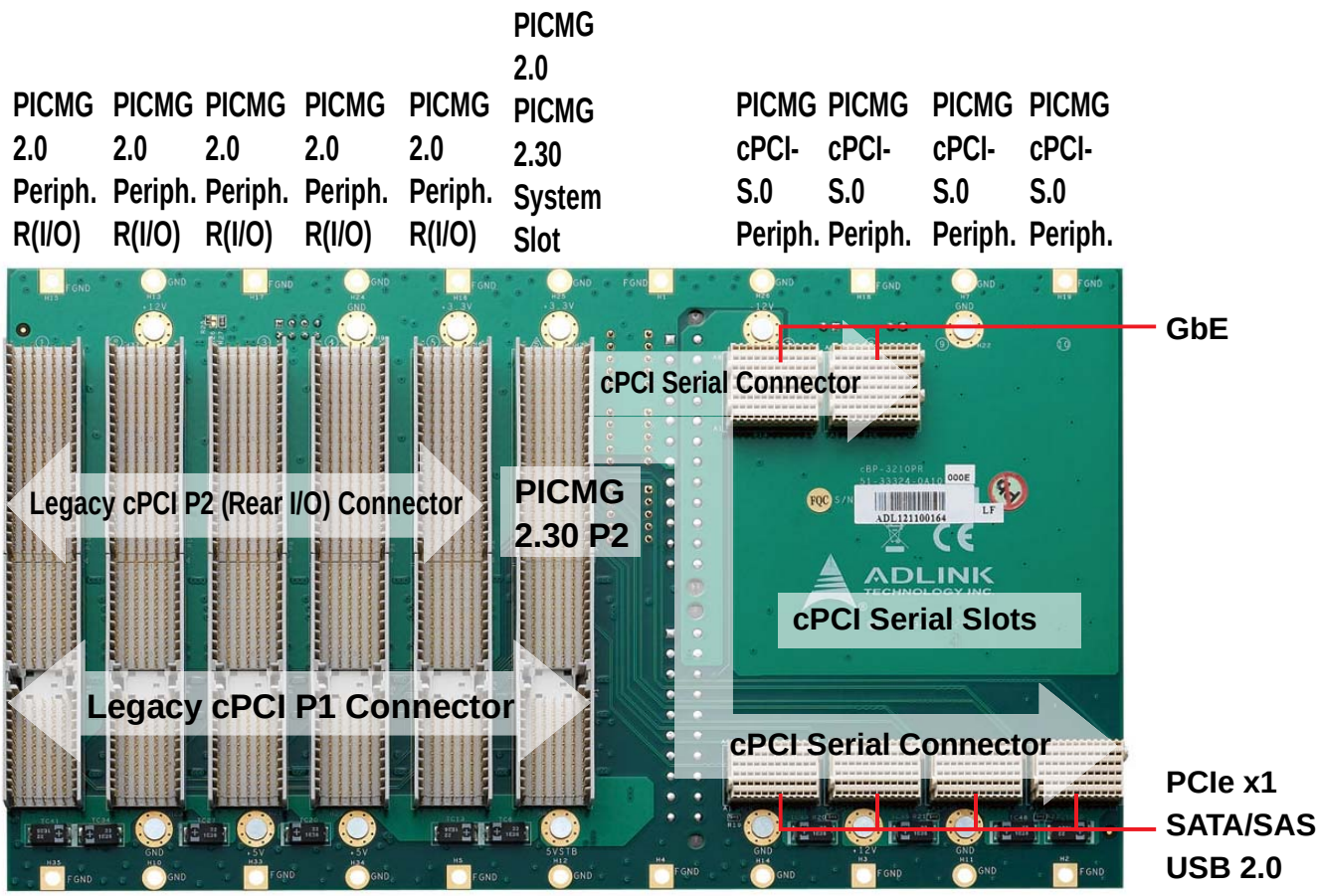
The cBP-3210PR is a 3U CompactPCI PlusIO hybrid 32-bit backplane with rear I/O.

Specifications

- **Standard CompactPCI height for 3U cPCI cards**
- **CompactPCI Compliancy**
    - PICMG 2.0 CompactPCI core specification R3.0
    - PICMG 2.30 CompactPCI PlusIO
    - PICMG S.0 CompactPCI Serial
- **Dimensions:** 224.06 x 128.7 (mm, W x H)
- **PCI Bus Clock:** 32-bit/33MHz
- **cPCI System Slot:** one R-hand side
- **cPCI System Slot Rear I/O:** None
- **cPCI Peripheral Slots:** 5
- **cPCI Peripheral Slots Rear I/O:** P2 rear I/O with AB-type shroud
- **cPCI Serial Peripheral Slots:** 4
    - Supports four PCIe x 1, four SATA/SAS, four USB 2.0 and two GbE
- **Power Connectors:** ATX connector x2 and M3 type connectors.
- **V (I/O):** 3.3V or 5V selectable, default 5V
- **Other Connectors:** INH#, Reset, PWR_FAL# and Voltage LEDs

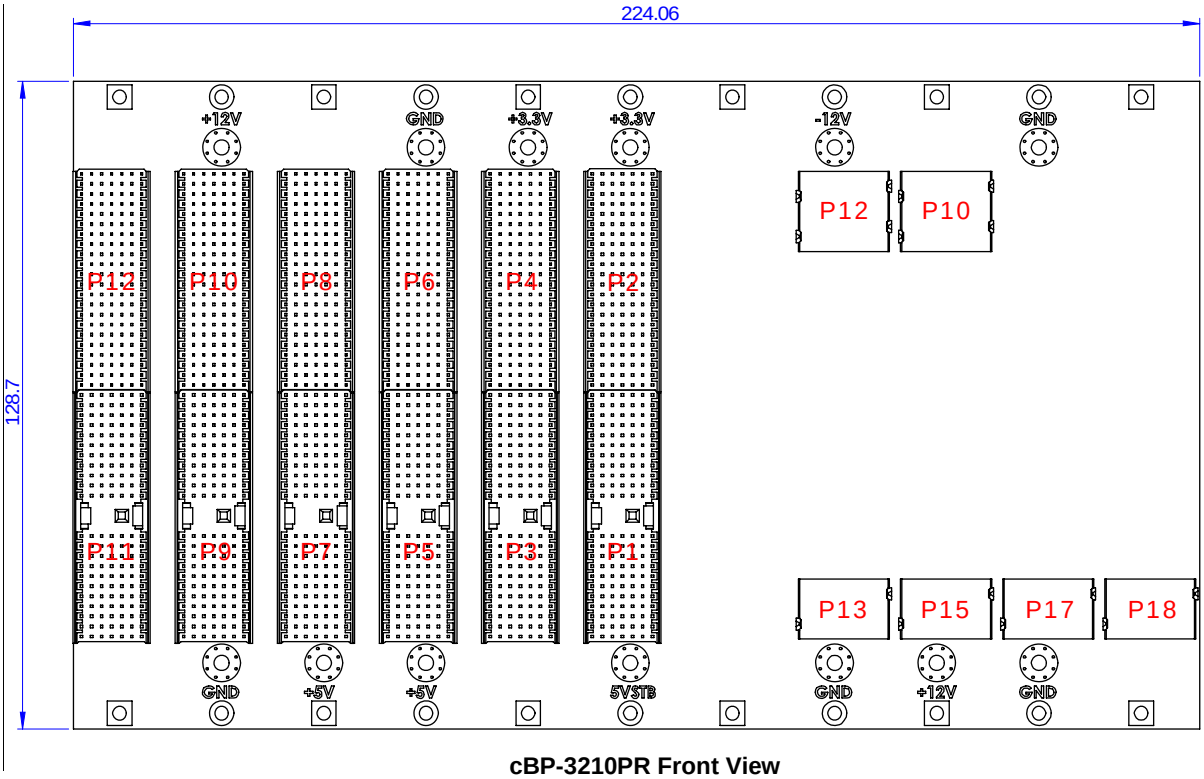
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Architecture

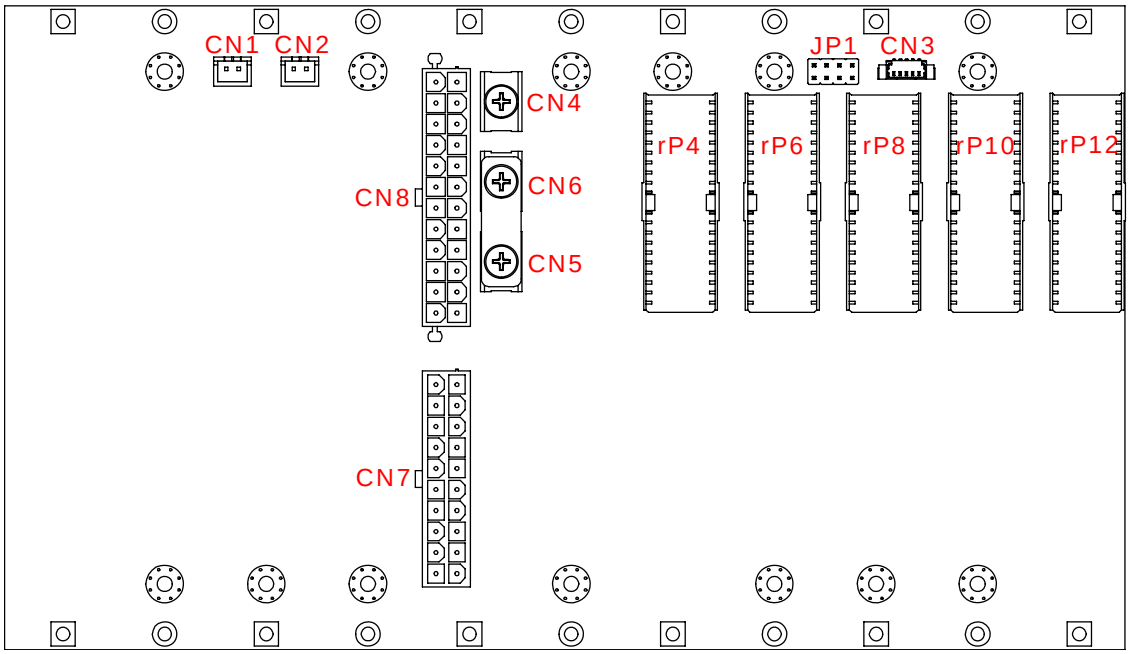


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Mechanical Drawings



cBP-3210PR Front View



cBP-3210PR Rear View

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Pin Assignments

3U cPCI System Slot 1 (P1 & P2)

Pin	Z	A	B	C	D	E	F	Conn
1	GND	+5V	-12V	TRST	+12V	+5V	GND	
2	GND	TCK	+5V	TMS	TDO	TDI	GND	
3	GND	INTA#	INTB#	INTC#	+5V	INTD#	GND	
4	GND	IPMB_PWR	HEALTHY#	VIO	INTP	INTS	GND	
5	GND	BRSVP1A5	BRSVP1B5	RST#	GND	GNT0#	GND	
6	GND	REQ0#	GND	+3.3V	CLK0	AD[31]	GND	
7	GND	AD[30]	AD[29]	AD[28]	GND	AD[27]	GND	
8	GND	AD[26]	GND	VIO	AD[25]	AD[24]	GND	
9	GND	C/BE[3]#	GND	AD[23]	GND	AD[22]	GND	
10	GND	AD[21]	GND	+3.3V	AD[20]	AD[19]	GND	
11	GND	AD[18]	AD[17]	AD[16]	GND	C/BE[2]#	GND	
12-14	KEY AREA							**P1**
15	GND	+3.3V	FRAME#	IRDY#	GND	TRDY#	GND	
16	GND	DEVSEL#	GND	VIO	STOP#	LOCK#	GND	
17	GND	+3.3V	IPMB_SCL	IPMB_SDA	GND	PERR#	GND	
18	GND	SERR#	GND	+3.3V	PAR	C/BE[1]#	GND	
19	GND	+3.3V	AD[15]	AD[14]	GND	AD[13]	GND	
20	GND	AD[12]	GND	VIO	AD[11]	AD[10]	GND	
21	GND	+3.3V	AD[9]	AD[8]	M66EN	C/BE[0]#	GND	
22	GND	AD[7]	GND	+3.3V	AD[6]	AD[5]	GND	
23	GND	+3.3V	AD[4]	AD[3]	+5V	AD[2]	GND	
24	GND	AD[1]	+5V	VIO	AD[0]	ACK64#	GND	
25	GND	+5V	REQ64#	ENUM#	+3.3V	+5V	GND	

Pin	Z	A	B	C	D	E	F	Conn
1	GND	CLK1	GND	REQ1#	GNT1#	REQ2#	GND	
2	GND	CLK2	CLK3	SYSEN#	GNT2#	REQ3#	GND	
3	GND	CLK4	GND	GNT3#	REQ4#	GNT4#	GND	
4	GND	VIO	1_PE_Tx00-	1_USB2-	1_SATA_Tx-	reserved	GND	
5	GND	1_PE_Rx00-	1_PE_Tx00+	1_USB2+	1_SATA_Tx+	1_SATA_Rx-	GND	
6	GND	1_PE_Rx00+	2_PE_Tx00-	2_USB2-	2_SATA_Tx-	1_SATA_Rx+	GND	
7	GND	2_PE_Rx00-	2_PE_Tx00+	2_USB2+	2_SATA_Tx+	2_SATA_Rx-	GND	
8	GND	2_PE_Rx00+	3_PE_Tx00-	3_USB2-	3_SATA_Tx-	2_SATA_Rx+	GND	
9	GND	3_PE_Rx00-	3_PE_Tx00+	3_USB2+	3_SATA_Tx+	3_SATA_Rx-	GND	
10	GND	3_PE_Rx00+	4_PE_Tx00-	4_USB2-	4_SATA_Tx-	3_SATA_Rx+	GND	
11	GND	4_PE_Rx00-	4_PE_Tx00+	4_USB2+	4_SATA_Tx+	4_SATA_Rx-	GND	
12	GND	4_PE_Rx00+	1_PE_CLKE#	2_PE_CLKE#	SATA_SDI	4_SATA_Rx+	GND	**P2**
13	GND	3_PE_CLK+	1_PE_CLK-	3_PE_CLKE#	SATA_SDO	SATA_SL	GND	
14	GND	3_PE_CLK-	1_PE_CLK+	4_PE_CLKE#	SATA_SCL	reserved	GND	
15	GND	4_PE_CLK+	2_PE_CLK-	NC	NC	NC	GND	
16	GND	4_PE_CLK-	2_PE_CLK+	NC	GND	reserved	GND	
17	GND	2_ETH_D-	2_ETH_C-	PRST#	NC	NC	GND	
18	GND	2_ETH_D+	2_ETH_C+	2_ETH_A	1_ETH_C-	1_ETH_A-	GND	
19	GND	GND	GND	2_ETH_A+	1_ETH_C+	1_ETH_A+	GND	
20	GND	NC	GND	2_ETH_B-	1_ETH_D-	1_ETH_B-	GND	
21	GND	NC	GND	2_ETH_B+	1_ETH_D+	1_ETH_B+	GND	
22	GND	GA4	GA3	NC	GA1	GA0	GND	

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3U cPCI Peripheral Slot 1 (P3 & P4)

Pin	Z	A	B	C	D	E	F	Conn
1	GND	+5V	-12V	TRST	+12V	+5V	GND	
2	GND	TCK	+5V	TMS	TDO	TDI	GND	
3	GND	INTD#	INTA#	INTB#	+5V	INTC#	GND	
4	GND	IPMB_PWR	HEALTHY#	VIO	INTP	INTS	GND	
5	GND	BRSVP1A5	BRSVP1B5	RST#	GND	GNT0#	GND	
6	GND	REQ0#	GND	+3.3V	CLK0	AD[31]	GND	
7	GND	AD[30]	AD[29]	AD[28]	GND	AD[27]	GND	
8	GND	AD[26]	GND	VIO	AD[25]	AD[24]	GND	
9	GND	C/BE[3]#	IDSEL	AD[23]	GND	AD[22]	GND	
10	GND	AD[21]	GND	+3.3V	AD[20]	AD[19]	GND	
11	GND	AD[18]	AD[17]	AD[16]	GND	C/BE[2]#	GND	
12-14	**KEY AREA**							**P3**
15	GND	+3.3V	FRAME#	IRDY#	GND	TRDY#	GND	
16	GND	DEVSEL#	GND	VIO	STOP#	LOCK#	GND	
17	GND	+3.3V	IPMB_SCL	IPMB_SDA	GND	PERR#	GND	
18	GND	SERR#	GND	+3.3V	PAR	C/BE[1]#	GND	
19	GND	+3.3V	AD[15]	AD[14]	GND	AD[13]	GND	
20	GND	AD[12]	GND	VIO	AD[11]	AD[10]	GND	
21	GND	+3.3V	AD[9]	AD[8]	M66EN	C/BE[0]#	GND	
22	GND	AD[7]	GND	+3.3V	AD[6]	AD[5]	GND	
23	GND	+3.3V	AD[4]	AD[3]	+5V	AD[2]	GND	
24	GND	AD[1]	+5V	VIO	AD[0]	ACK64#	GND	
25	GND	+5V	REQ64#	ENUM#	+3.3V	+5V	GND	

Pin	Z	A	B	C	D	E	F	Conn
1	GND	NC	NC	NC	NC	NC	GND	
2	GND	NC	NC	NC	NC	NC	GND	
3	GND	NC	NC	NC	NC	NC	GND	
4	GND	NC	NC	NC	NC	NC	GND	
5	GND	NC	NC	NC	NC	NC	GND	
6	GND	NC	NC	NC	NC	NC	GND	
7	GND	NC	NC	NC	NC	NC	GND	
8	GND	NC	NC	NC	NC	NC	GND	
9	GND	NC	NC	NC	NC	NC	GND	
10	GND	NC	NC	NC	NC	NC	GND	
11	GND	NC	NC	NC	NC	NC	GND	
12	GND	NC	NC	NC	NC	NC	GND	
13	GND	NC	NC	NC	NC	NC	GND	
14	GND	NC	NC	NC	NC	NC	GND	
15	GND	NC	NC	NC	NC	NC	GND	
16	GND	NC	NC	NC	NC	NC	GND	
17	GND	NC	NC	NC	NC	NC	GND	
18	GND	NC	NC	NC	NC	NC	GND	
19	GND	NC	NC	NC	NC	NC	GND	
20	GND	NC	NC	NC	NC	NC	GND	
21	GND	NC	NC	NC	NC	NC	GND	
22	GND	GND	GND	GND	NC	GND	GND	**P4**

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3U cPCI Peripheral Slot 2 (P5 & P6)

Pin	Z	A	B	C	D	E	F	Conn
1	GND	+5V	-12V	TRST	+12V	+5V	GND	
2	GND	TCK	+5V	TMS	TDO	TDI	GND	
3	GND	INTC#	INTD#	INTA#	+5V	INTB#	GND	
4	GND	IPMB_PWR	HEALTHY#	VIO	INTP	INTS	GND	
5	GND	BRSVP1A5	BRSVP1B5	RST#	GND	GNT1#	GND	
6	GND	REQ1#	GND	+3.3V	CLK1	AD[31]	GND	
7	GND	AD[30]	AD[29]	AD[28]	GND	AD[27]	GND	
8	GND	AD[26]	GND	VIO	AD[25]	AD[24]	GND	
9	GND	C/BE[3]#	IDSEL	AD[23]	GND	AD[22]	GND	
10	GND	AD[21]	GND	+3.3V	AD[20]	AD[19]	GND	
11	GND	AD[18]	AD[17]	AD[16]	GND	C/BE[2]#	GND	
12-14	**KEY AREA**							**P5**
15	GND	+3.3V	FRAME#	IRDY#	GND	TRDY#	GND	
16	GND	DEVSEL#	GND	VIO	STOP#	LOCK#	GND	
17	GND	+3.3V	IPMB_SCL	IPMB_SDA	GND	PERR#	GND	
18	GND	SERR#	GND	+3.3V	PAR	C/BE[1]#	GND	
19	GND	+3.3V	AD[15]	AD[14]	GND	AD[13]	GND	
20	GND	AD[12]	GND	VIO	AD[11]	AD[10]	GND	
21	GND	+3.3V	AD[9]	AD[8]	M66EN	C/BE[0]#	GND	
22	GND	AD[7]	GND	+3.3V	AD[6]	AD[5]	GND	
23	GND	+3.3V	AD[4]	AD[3]	+5V	AD[2]	GND	
24	GND	AD[1]	+5V	VIO	AD[0]	ACK64#	GND	
25	GND	+5V	REQ64#	ENUM#	+3.3V	+5V	GND	

Pin	Z	A	B	C	D	E	F	Conn
1	GND	NC	NC	NC	NC	NC	GND	
2	GND	NC	NC	NC	NC	NC	GND	
3	GND	NC	NC	NC	NC	NC	GND	
4	GND	NC	NC	NC	NC	NC	GND	
5	GND	NC	NC	NC	NC	NC	GND	
6	GND	NC	NC	NC	NC	NC	GND	
7	GND	NC	NC	NC	NC	NC	GND	
8	GND	NC	NC	NC	NC	NC	GND	
9	GND	NC	NC	NC	NC	NC	GND	
10	GND	NC	NC	NC	NC	NC	GND	
11	GND	NC	NC	NC	NC	NC	GND	
12	GND	NC	NC	NC	NC	NC	GND	**P6**
13	GND	NC	NC	NC	NC	NC	GND	
14	GND	NC	NC	NC	NC	NC	GND	
15	GND	NC	NC	NC	NC	NC	GND	
16	GND	NC	NC	NC	NC	NC	GND	
17	GND	NC	NC	NC	NC	NC	GND	
18	GND	NC	NC	NC	NC	NC	GND	
19	GND	NC	NC	NC	NC	NC	GND	
20	GND	NC	NC	NC	NC	NC	GND	
21	GND	NC	NC	NC	NC	NC	GND	
22	GND	GND	GND	GND	NC	NC	GND	

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3U cPCI Peripheral Slot 3 (P7 & P8)

Pin	Z	A	B	C	D	E	F	Conn
1	GND	+5V	-12V	TRST	+12V	+5V	GND	
2	GND	TCK	+5V	TMS	TDO	TDI	GND	
3	GND	INTB#	INTC#	INTD#	+5V	INTA#	GND	
4	GND	IPMB_PWR	HEALTHY#	VIO	INTP	INTS	GND	
5	GND	BRSVP1A5	BRSVP1B5	RST#	GND	GNT2#	GND	
6	GND	REQ2#	GND	+3.3V	CLK2	AD[31]	GND	
7	GND	AD[30]	AD[29]	AD[28]	GND	AD[27]	GND	
8	GND	AD[26]	GND	VIO	AD[25]	AD[24]	GND	
9	GND	C/BE[3]#	IDSEL	AD[23]	GND	AD[22]	GND	
10	GND	AD[21]	GND	+3.3V	AD[20]	AD[19]	GND	
11	GND	AD[18]	AD[17]	AD[16]	GND	C/BE[2]#	GND	
12-14	**KEY AREA**							**P7**
15	GND	+3.3V	FRAME#	IRDY#	GND	TRDY#	GND	
16	GND	DEVSEL#	GND	VIO	STOP#	LOCK#	GND	
17	GND	+3.3V	IPMB_SCL	IPMB_SDA	GND	PERR#	GND	
18	GND	SERR#	GND	+3.3V	PAR	C/BE[1]#	GND	
19	GND	+3.3V	AD[15]	AD[14]	GND	AD[13]	GND	
20	GND	AD[12]	GND	VIO	AD[11]	AD[10]	GND	
21	GND	+3.3V	AD[9]	AD[8]	M66EN	C/BE[0]#	GND	
22	GND	AD[7]	GND	+3.3V	AD[6]	AD[5]	GND	
23	GND	+3.3V	AD[4]	AD[3]	+5V	AD[2]	GND	
24	GND	AD[1]	+5V	VIO	AD[0]	ACK64#	GND	
25	GND	+5V	REQ64#	ENUM#	+3.3V	+5V	GND	

Pin	Z	A	B	C	D	E	F	Conn
1	GND	NC	NC	NC	NC	NC	GND	
2	GND	NC	NC	NC	NC	NC	GND	
3	GND	NC	NC	NC	NC	NC	GND	
4	GND	NC	NC	NC	NC	NC	GND	
5	GND	NC	NC	NC	NC	NC	GND	
6	GND	NC	NC	NC	NC	NC	GND	
7	GND	NC	NC	NC	NC	NC	GND	
8	GND	NC	NC	NC	NC	NC	GND	
9	GND	NC	NC	NC	NC	NC	GND	
10	GND	NC	NC	NC	NC	NC	GND	
11	GND	NC	NC	NC	NC	NC	GND	
12	GND	NC	NC	NC	NC	NC	GND	**P8**
13	GND	NC	NC	NC	NC	NC	GND	
14	GND	NC	NC	NC	NC	NC	GND	
15	GND	NC	NC	NC	NC	NC	GND	
16	GND	NC	NC	NC	NC	NC	GND	
17	GND	NC	NC	NC	NC	NC	GND	
18	GND	NC	NC	NC	NC	NC	GND	
19	GND	NC	NC	NC	NC	NC	GND	
20	GND	NC	NC	NC	NC	NC	GND	
21	GND	NC	NC	NC	NC	NC	GND	
22	GND	GND	GND	NC	GND	GND	GND	

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3U cPCI Peripheral Slot 4 (P9 & P10)

Pin	Z	A	B	C	D	E	F	Conn
1	GND	+5V	-12V	TRST	+12V	+5V	GND	
2	GND	TCK	+5V	TMS	TDO	TDI	GND	
3	GND	INTA#	INTB#	INTC#	+5V	INTD#	GND	
4	GND	IPMB_PWR	HEALTHY#	VIO	INTP	INTS	GND	
5	GND	BRSVP1A5	BRSVP1B5	RST#	GND	GNT3#	GND	
6	GND	REQ3#	GND	+3.3V	CLK3	AD[31]	GND	
7	GND	AD[30]	AD[29]	AD[28]	GND	AD[27]	GND	
8	GND	AD[26]	GND	VIO	AD[25]	AD[24]	GND	
9	GND	C/BE[3]#	IDSEL	AD[23]	GND	AD[22]	GND	
10	GND	AD[21]	GND	+3.3V	AD[20]	AD[19]	GND	
11	GND	AD[18]	AD[17]	AD[16]	GND	C/BE[2]#	GND	
12-14	**KEY AREA**							**P9**
15	GND	+3.3V	FRAME#	IRDY#	GND	TRDY#	GND	
16	GND	DEVSEL#	GND	VIO	STOP#	LOCK#	GND	
17	GND	+3.3V	IPMB_SCL	IPMB_SDA	GND	PERR#	GND	
18	GND	SERR#	GND	+3.3V	PAR	C/BE[1]#	GND	
19	GND	+3.3V	AD[15]	AD[14]	GND	AD[13]	GND	
20	GND	AD[12]	GND	VIO	AD[11]	AD[10]	GND	
21	GND	+3.3V	AD[9]	AD[8]	M66EN	C/BE[0]#	GND	
22	GND	AD[7]	GND	+3.3V	AD[6]	AD[5]	GND	
23	GND	+3.3V	AD[4]	AD[3]	+5V	AD[2]	GND	
24	GND	AD[1]	+5V	VIO	AD[0]	ACK64#	GND	
25	GND	+5V	REQ64#	ENUM#	+3.3V	+5V	GND	

Pin	Z	A	B	C	D	E	F	Conn
1	GND	NC	NC	NC	NC	NC	GND	
2	GND	NC	NC	NC	NC	NC	GND	
3	GND	NC	NC	NC	NC	NC	GND	
4	GND	NC	NC	NC	NC	NC	GND	
5	GND	NC	NC	NC	NC	NC	GND	
6	GND	NC	NC	NC	NC	NC	GND	
7	GND	NC	NC	NC	NC	NC	GND	
8	GND	NC	NC	NC	NC	NC	GND	
9	GND	NC	NC	NC	NC	NC	GND	
10	GND	NC	NC	NC	NC	NC	GND	
11	GND	NC	NC	NC	NC	NC	GND	
12	GND	NC	NC	NC	NC	NC	GND	**P10**
13	GND	NC	NC	NC	NC	NC	GND	
14	GND	NC	NC	NC	NC	NC	GND	
15	GND	NC	NC	NC	NC	NC	GND	
16	GND	NC	NC	NC	NC	NC	GND	
17	GND	NC	NC	NC	NC	NC	GND	
18	GND	NC	NC	NC	NC	NC	GND	
19	GND	NC	NC	NC	NC	NC	GND	
20	GND	NC	NC	NC	NC	NC	GND	
21	GND	NC	NC	NC	NC	NC	GND	
22	GND	GND	GND	NC	GND	NC	GND	

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3U cPCI Peripheral Slot 5 (P11 & P12)

Pin	Z	A	B	C	D	E	F	Conn
1	GND	+5V	-12V	TRST	+12V	+5V	GND	
2	GND	TCK	+5V	TMS	TDO	TDI	GND	
3	GND	INTD#	INTA#	INTB#	+5V	INTC#	GND	
4	GND	IPMB_PWR	HEALTHY#	VIO	INTP	INTS	GND	
5	GND	BRSVP1A5	BRSVP1B5	RST#	GND	GNT4#	GND	
6	GND	REQ4#	GND	+3.3V	CLK4	AD[31]	GND	
7	GND	AD[30]	AD[29]	AD[28]	GND	AD[27]	GND	
8	GND	AD[26]	GND	VIO	AD[25]	AD[24]	GND	
9	GND	C/BE[3]#	IDSEL	AD[23]	GND	AD[22]	GND	
10	GND	AD[21]	GND	+3.3V	AD[20]	AD[19]	GND	
11	GND	AD[18]	AD[17]	AD[16]	GND	C/BE[2]#	GND	
12-14	**KEY AREA**							**P11**
15	GND	+3.3V	FRAME#	IRDY#	GND	TRDY#	GND	
16	GND	DEVSEL#	GND	VIO	STOP#	LOCK#	GND	
17	GND	+3.3V	IPMB_SCL	IPMB_SDA	GND	PERR#	GND	
18	GND	SERR#	GND	+3.3V	PAR	C/BE[1]#	GND	
19	GND	+3.3V	AD[15]	AD[14]	GND	AD[13]	GND	
20	GND	AD[12]	GND	VIO	AD[11]	AD[10]	GND	
21	GND	+3.3V	AD[9]	AD[8]	M66EN	C/BE[0]#	GND	
22	GND	AD[7]	GND	+3.3V	AD[6]	AD[5]	GND	
23	GND	+3.3V	AD[4]	AD[3]	+5V	AD[2]	GND	
24	GND	AD[1]	+5V	VIO	AD[0]	ACK64#	GND	
25	GND	+5V	REQ64#	ENUM#	+3.3V	+5V	GND	

Pin	Z	A	B	C	D	E	F	Conn
1	GND	NC	NC	NC	NC	NC	GND	
2	GND	NC	NC	NC	NC	NC	GND	
3	GND	NC	NC	NC	NC	NC	GND	
4	GND	NC	NC	NC	NC	NC	GND	
5	GND	NC	NC	NC	NC	NC	GND	
6	GND	NC	NC	NC	NC	NC	GND	
7	GND	NC	NC	NC	NC	NC	GND	
8	GND	NC	NC	NC	NC	NC	GND	
9	GND	NC	NC	NC	NC	NC	GND	
10	GND	NC	NC	NC	NC	NC	GND	
11	GND	NC	NC	NC	NC	NC	GND	
12	GND	NC	NC	NC	NC	NC	GND	**P12**
13	GND	NC	NC	NC	NC	NC	GND	
14	GND	NC	NC	NC	NC	NC	GND	
15	GND	NC	NC	NC	NC	NC	GND	
16	GND	NC	NC	NC	NC	NC	GND	
17	GND	NC	NC	NC	NC	NC	GND	
18	GND	NC	NC	NC	NC	NC	GND	
19	GND	NC	NC	NC	NC	NC	GND	
20	GND	NC	NC	NC	NC	NC	GND	
21	GND	NC	NC	NC	NC	NC	GND	
22	GND	GND	GND	NC	NC	GND	GND	

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Peripheral Serial Slot 1 (P13 & P14)

Pin	A	B	C	D	E	F	Conn
1-1	+12V	STANDBY	GND	+12V	+12V	GND	P13
1-2	GND	I²C_SCL	I²C_SDA	GND	reserved	reserved	
1-3	NC	NC	GA0	NC	NC	NC	
1-4	GND	1_USB2+	1_USB2-	GND	PE_CLKIN+	PE_CLKIN-	
1-5	1_PE_Tx00+	1_PE_Tx00-	GND	1_PE_Rx00+	1_PE_Rx00-	GND	
1-6	GND	NC	NC	GND	NC	NC	
6-1	1_ETH_A+	1_ETH_A-	GND	1_ETH_B+	1_ETH_B-	GND	P14
6-2	GND	2_ETH_A+	2_ETH_A-	GND	2_ETH_B+	2_ETH_B-	
6-3	NC	NC	GND	NC	NC	GND	
6-4	GND	NC	NC	GND	NC	NC	
6-5	NC	NC	GND	NC	NC	GND	
6-6	GND	NC	NC	GND	NC	NC	
6-7	NC	NC	GND	NC	NC	GND	
6-8	GND	NC	NC	GND	NC	NC	

Pin	G	H	I	J	K	L	Conn
1-1	+12V	+12V	GND	+12V	+12V	GND	P13
1-2	GND	RST#	NC	GND	PCIE_EN#	NC	
1-3	SATA_SDI	SATA_SDO	GA2	SATA_SCL	SATA_SL	GA3	
1-4	GND	1_SATA_Tx+	1_SATA_Tx-	GND	1_SATA_Rx+	1_SATA_Rx-	
1-5	NC	NC	GND	NC	NC	GND	
1-6	GND	NC	NC	GND	NC	NC	
6-1	1_ETH_C+	1_ETH_C-	GND	1_ETH_D+	1_ETH_D-	GND	P14
6-2	GND	2_ETH_C+	2_ETH_C-	GND	2_ETH_D+	2_ETH_D-	
6-3	NC	NC	GND	NC	NC	GND	
6-4	GND	NC	NC	GND	NC	NC	
6-5	NC	NC	GND	NC	NC	GND	
6-6	GND	NC	NC	GND	NC	NC	
6-7	NC	NC	GND	NC	NC	GND	
6-8	GND	NC	NC	GND	NC	NC	

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Peripheral Serial Slot 2 (P15 & P16)

Pin	A	B	C	D	E	F	Conn
1-1	+12V	STANDBY	GND	+12V	+12V	GND	**P15**
1-2	GND	I²C_SCL	I²C_SDA	GND	reserved	reserved	
1-3	NC	NC	NC	NC	NC	GA1	
1-4	GND	1_USB2+	1_USB2-	GND	PE_CLKIN+	PE_CLKIN-	
1-5	1_PE_Tx00+	1_PE_Tx00-	GND	1_PE_Rx00+	1_PE_Rx00-	GND	
1-6	GND	NC	NC	GND	NC	NC	
6-1	1_ETH_A+	1_ETH_A-	GND	1_ETH_B+	1_ETH_B-	GND	**P16**
6-2	GND	NC	NC	GND	NC	NC	
6-3	NC	NC	GND	NC	NC	GND	
6-4	GND	NC	NC	GND	NC	NC	
6-5	NC	NC	GND	NC	NC	GND	
6-6	GND	NC	NC	GND	NC	NC	
6-7	NC	NC	GND	NC	NC	GND	
6-8	GND	8_ETH_A+	8_ETH_A-	GND	8_ETH_B+	8_ETH_B-	

Pin	G	H	I	J	K	L	Conn
1-1	+12V	+12V	GND	+12V	+12V	GND	**P15**
1-2	GND	RST#	NC	GND	PCIE_EN#	NC	
1-3	SATA_SDI	SATA_SDO	GA2	SATA_SCL	SATA_SL	GA3	
1-4	GND	2_SATA_Tx+	2_SATA_Tx-	GND	2_SATA_Rx+	2_SATA_Rx-	
1-5	NC	NC	GND	NC	NC	GND	
1-6	GND	NC	NC	GND	NC	NC	
6-1	1_ETH_C+	1_ETH_C-	GND	1_ETH_D+	1_ETH_D-	GND	**P16**
6-2	GND	NC	NC	GND	NC	NC	
6-3	NC	NC	GND	NC	NC	GND	
6-4	GND	NC	NC	GND	NC	NC	
6-5	NC	NC	GND	NC	NC	GND	
6-6	GND	NC	NC	GND	NC	NC	
6-7	NC	NC	GND	NC	NC	GND	
6-8	GND	8_ETH_C+	8_ETH_C-	GND	8_ETH_D+	8_ETH_D-	

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Peripheral Serial Slot 3 (P17)

Pin	A	B	C	D	E	F	Conn
1-1	+12V	STANDBY	GND	+12V	+12V	GND	**P17**
1-2	GND	I²C_SCL	I²C_SDA	GND	reserved	reserved	
1-3	NC	NC	GA0	NC	NC	NC	
1-4	GND	1_USB2+	1_USB2-	GND	PE_CLKIN+	PE_CLKIN-	
1-5	1_PE_Tx00+	1_PE_Tx00-	GND	1_PE_Rx00+	1_PE_Rx00-	GND	
1-6	GND	NC	NC	GND	NC	NC	

Pin	G	H	I	J	K	L	Conn
1-1	+12V	+12V	GND	+12V	+12V	GND	**P17**
1-2	GND	RST#	NC	GND	PCIE_EN#	NC	
1-3	SATA_SDI	SATA_SDO	GA2	SATA_SCL	SATA_SL	GA3	
1-4	GND	3_SATA_Tx+	3_SATA_Tx-	GND	3_SATA_Rx+	3_SATA_Rx-	
1-5	NC	NC	GND	NC	NC	GND	
1-6	GND	NC	NC	GND	NC	NC	

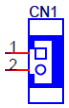
Peripheral Serial Slot 4 (P18)

Pin	A	B	C	D	E	F	Conn
1-1	+12V	STANDBY	GND	+12V	+12V	GND	**P18**
1-2	GND	I²C_SCL	I²C_SDA	GND	reserved	reserved	
1-3	NC	NC	GA0	NC	NC	NC	
1-4	GND	1_USB2+	1_USB2-	GND	PE_CLKIN+	PE_CLKIN-	
1-5	1_PE_Tx00+	1_PE_Tx00-	GND	1_PE_Rx00+	1_PE_Rx00-	GND	
1-6	GND	NC	NC	GND	NC	NC	

Pin	G	H	I	J	K	L	Conn
1-1	+12V	+12V	GND	+12V	+12V	GND	**P18**
1-2	GND	RST#	NC	GND	PCIE_EN#	NC	
1-3	SATA_SDI	SATA_SDO	GA2	SATA_SCL	SATA_SL	GA3	
1-4	GND	4_SATA_Tx+	4_SATA_Tx-	GND	4_SATA_Rx+	4_SATA_Rx-	
1-5	NC	NC	GND	NC	NC	GND	
1-6	GND	NC	NC	GND	NC	NC	

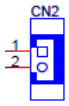
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PRST# Connector (CN1) - Reset System Slot blade



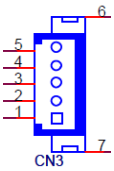
Pin	Signal
1	PRST#
2	GND

INH# Connector (CN2) - "ON/OFF" switch



Pin	Signal
1	INH#
2	GND

IPMB Connector (CN3) - Intelligent Platform Management Bus

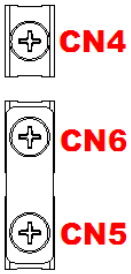


Pin	Signal
1	IPMB_SDA
2	GND
3	IPMB_SCL
4	IPMB_PWR
5	N/A
6	GND
7	GND

V(I/O) Power +5V Selectable Connector (CN4)

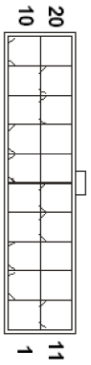
V(I/O) Power +3.3V Selectable Connector (CN5)

V(I/O) Power Selectable Connector (CN6)



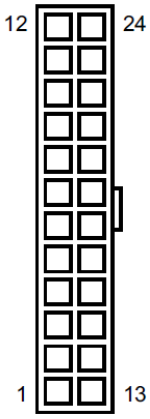
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ATX 20-pin Connector (CN7)



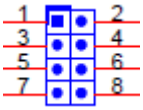
Pin	Signal	Pin	Signal
1	+3.3V	11	+3.3V
2	+3.3V	12	-12V
3	GND	13	GND
4	+5V	14	INH#
5	GND	15	GND
6	+5V	16	GND
7	GND	17	GND
8	NC	18	NC
9	+5V_SB	19	+5V
10	+12V	20	+5V

ATX 24-pin Connector (CN8)



Pin	Signal	Pin	Signal
1	+3.3V	13	+3.3V
2	+3.3V	14	-12V
3	GND	15	GND
4	+5V	16	INH#
5	GND	17	GND
6	+5V	18	GND
7	GND	19	GND
8	NC	20	NC
9	+5V_SB	21	+5V
10	+12V	22	+5V
11	+12V	23	+5V
12	+3.3V	24	GND

PWR LED (JP1) - Power LED header for +12V, -12V, +5V and +3.3V



Pin	Signal	Pin	Signal
1	+12V	2	GND
3	-12V	4	GND
5	+5V	6	GND
7	+3.3V	8	GND

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Important Safety Instructions

Read and follow all instructions marked on the product and in the documentation before you operate your system. Retain all safety and operating instructions for future use.

- Please read these safety instructions carefully.
- Please keep this User‘s Manual for later reference.
- The equipment should be operated only from the type of power source indicated on the rating label. Make sure the voltage of the power source when connect the equipment to the power outlet.
- If your equipment has a voltage selector switch, make sure that the switch is in the proper position for your area. The voltage selector switch is set at the factory to the correct voltage.
- For pluggable equipment, that the socket-outlet shall be installed near the equipment and shall be easily accessible.
- Place the power cord such a way that people can not step on it. Do not place anything over the power cord.
- If the equipment is not use for long time, disconnect the equipment from mains to avoid being damaged by transient overvoltage.
- All cautions and warnings on the equipment should be noted.
- Please keep this equipment from humidity.
- Do not use this equipment near water or a heat source.
- Lay this equipment on a reliable surface when install. A drop or fall could cause injury.
- Never pour any liquid into opening; this could cause fire or electrical shock.
- Openings in the case are provided for ventilation. Do not block or cover these openings. Make sure you provide adequate space around the system for ventilation when you set up your work area. Never insert objects of any kind into the ventilation openings.
- To avoid electrical shock, always unplug all power cables and modem cables from the wall outlets before removing covers.
- If one of the following situations arises, get the equipment checked by a service personnel:
  - A. The power cord or plug is damaged.
  - B. Liquid has penetrated into the equipment.
  - C. The equipment has been exposed to moisture.
  - D. The equipment has not work well or you can not get it work according to user‘s manual.
  - E. The equipment has dropped and damaged.
  - F. If the equipment has obvious sign of breakage.

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