082-0220-00 Backplane

PN 932-0045-00

Quick Reference

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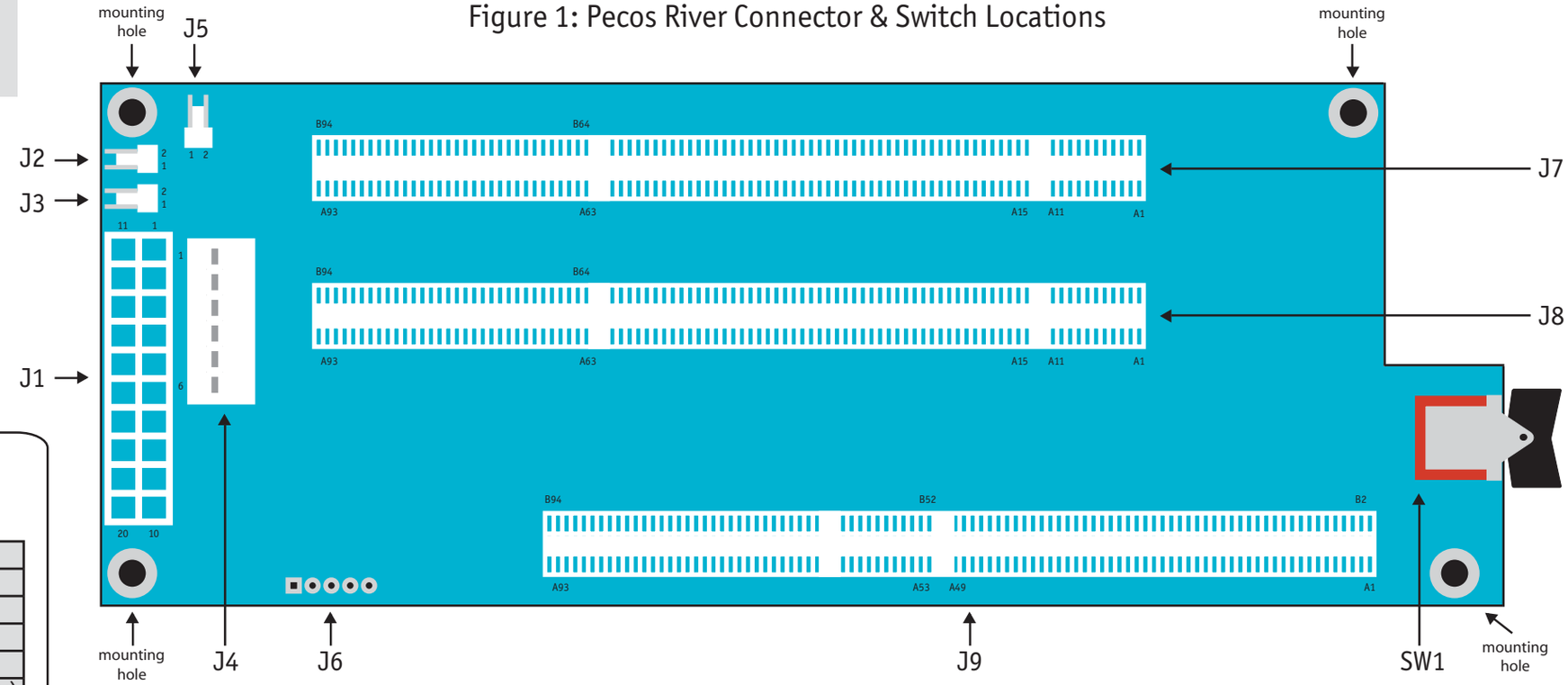
Introduction

The 082-0220-00 is a two slot vertical 2U PCI-X riser backplane. The backplane to SBC interface is a PICMG 1.0 64-bit connector with enhancements to accommodate the PCI-X protocol. Expansion slots are provided as two 3.3V 64-bit 33/66MHz PCI/PCI-X slots with signal definition and power compatible with the PCI specification Rev. 2.2 and PCI-X Addendum specification Rev 1.0A. The 082-0220-00 backplane also has headers for two +12V fans (no fan tach output), one power LED header, one 6 pin connector to supply power to the SBC, one rocker switch to turn the system on / off, and an ATX type power connector to provide sufficient power to all peripheral cards, fans, and the SBC motherboard.

Connectors & Switches

No.	Description
J1	Main Power (vertical 20-pin ATX type mini-fit)
J2	Fan Header (right angle 2-pin friction lock molex)
J3	Fan Header (right angle 2-pin friction lock molex)
J4	AUX Power Out (vertical 6-pin AT type molex)
J5	Power present LED (right angle 2-pin friction lock molex)
J6	ALT Power Control
J7	PCI/PCI-X Slot 1 (64-bit 3.3V)
J8	PCI/PCI-X Slot 2 (64-bit 3.3V)
J9	PICMG Edge Connector (64-bit 66MHz PCI/PCI-X)
SW1	Rocker Switch / Power Button

Figure 1: Pecos River Connector & Switch Locations



Unpacking

1) After unpacking the box, save it and the packing material for possible future shipment.
2) Remove all the items from the box. If any items listed on the purchase order are missing, notify Kontron Customer Service immediately (800-480-0044, option 2).
3) Inspect the product for damage. If there is damage, notify Kontron Customer Service immediately. Refer to "Guarantee and Warranty Policy" in the manual for this product posted on the Kontron website (www.kontron.com).

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Connector Signal Definitions

J1: ATX Power Connector

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

J2, J3: Fan Connectors

Pin	Signal
1	+12V
2	GND

J4: AUX Power Connector

Pin	Signal
1	+5V
2	+5V
3	+12V
4	GND
5	GND
6	GND

J5: Power Present LED Interface Connector

Pin	Signal
1	+5V (current limited)
2	GND

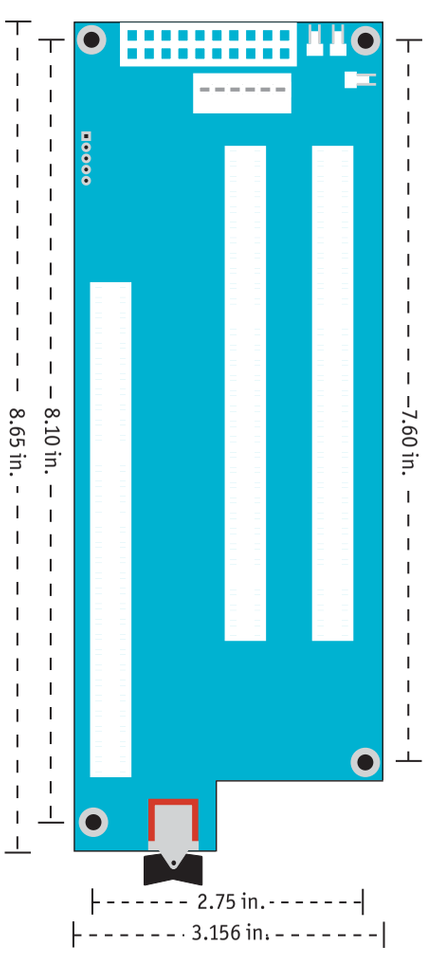
J6: ALT Power Control

Pin	Signal
1	5VSBY
2	PME#
3	PWROK
4	GND
5	PS_ON#

SW1: Rocker Switch / Power Button

Pin	Signal
1	N/C - No Connect
2	ATX Pwr Ctrl Signal– PSON#
3	GND

Dimensions



J7, J8: PCI/PCI-X Slot Connectors

Side B	Pin	Pin	Side A
-12V	B01	A01	TRST#
TCK	B02	A02	+12V
GND	B03	A03	TMS
TDO	B04	A04	TDI
+5V	B05	A05	+5V
+5V	B06	A06	INTA#
INTB#	B07	A07	INTC#
INTD#	B08	A08	+5V
PRSNT1#	B09	A09	RSVD1
RSVD2	B10	A10	+3.3V
PRSNT2#	B11	A11	RSVD3
GND	B12	A12	KEY
KEY	B13	A13	GND
RSVD4	B14	A14	+3.3VAUX
GND	B15	A15	RST#
CLK	B16	A16	+3.3V
GND	B17	A17	GNT#
REQ#	B18	A18	GND
+3.3V	B19	A19	PME#
AD[31]	B20	A20	AD[30]
AD[29]	B21	A21	+3.3V
GND	B22	A22	AD[28]
AD[27]	B23	A23	AD[26]
AD[25]	B24	A24	GND
+3.3V	B25	A25	AD[24]
C/BE[3]#	B26	A26	IDSEL
AD[23]	B27	A27	+3.3V
GND	B28	A28	AD[22]
AD[21]	B29	A29	AD[20]
AD[19]	B30	A30	GND
+3.3V	B31	A31	AD[18]
AD[17]	B32	A32	AD[16]
C/BE[2]#	B33	A33	+3.3V
GND	B34	A34	FRAME#
IRDY#	B35	A35	GND
+3.3V	B36	A36	TRDY#
DEVSEL#	B37	A37	GND
PCIXCAP	B38	A38	STOP#
LOCK#	B39	A39	+3.3V
PERR#	B40	A40	RSVD5
+3.3V	B41	A41	RSVD6
SERR#	B42	A42	GND
+3.3V	B43	A43	PAR
C/BE[1]#	B44	A44	AD[15]
AD[14]	B45	A45	+3.3V
GND	B46	A46	AD[13]
AD[12]	B47	A47	AD[11]
AD[10]	B48	A48	GND
M66EN	B49	A49	AD[09]
GND	B50	A50	KEY
KEY	B51	A51	GND
AD[08]	B52	A52	C/BE[0]#
AD[07]	B53	A53	+3.3V
+3.3V	B54	A54	AD[06]
AD[05]	B55	A55	AD[04]
AD[03]	B56	A56	GND
GND	B57	A57	AD[02]
AD[01]	B58	A58	AD[00]
+3.3V	B59	A59	+3.3V
ACK64#	B60	A60	REQ64#
+5V	B61	A61	+5V
+5V	B62	A62	+5V
KEY			KEY
KEY			KEY
RSVD7	B63	A63	GND
GND	B64	A64	C/BE[7]#
C/BE[6]#	B65	A65	C/BE[5]#
C/BE[4]#	B66	A66	+3.3V
GND	B67	A67	PAR64
AD[63]	B68	A68	AD[62]
AD[61]	B69	A69	GND
+3.3V	B70	A70	AD[60]
AD[59]	B71	A71	AD[58]
AD[57]	B72	A72	GND
GND	B73	A73	AD[56]
AD[55]	B74	A74	AD[54]
AD[53]	B75	A75	+3.3V
GND	B76	A76	AD[52]
AD[51]	B77	A77	AD[50]
AD[49]	B78	A78	GND
+3.3V	B79	A79	AD[48]
AD[47]	B80	A80	AD[46]
AD[45]	B81	A81	GND
GND	B82	A82	AD[44]
AD[43]	B83	A83	AD[42]
AD[41]	B84	A84	+3.3V
GND	B85	A85	AD[40]
AD[39]	B86	A86	AD[38]
AD[37]	B87	A87	GND
+3.3V	B88	A88	AD[36]
AD[35]	B89	A89	AD[34]
AD[33]	B90	A90	GND
GND	B91	A91	AD[32]
RSVD8	B92	A92	RSVD9
RSVD10	B93	A93	GND
GND	B94	A94	RSVD11

J9: PICMG 1.0 Interface Connector

Signal	Pin	Pin	Signal
-12V	F01	E01	TRST#
TCK	F02	E02	+12V
GND	F03	E03	TMS
TD0	F04	E04	TDI
+5V	F05	E05	+5V
+5V	F06	E06	INTA#
INTB#	F07	E07	INTC#
INTD#	F08	E08	+5V
REQ3#	F09	E09	CLKC
REQ1#	F10	E10	+5V(I/O)
GNT3#	F11	E11	CLKD
GND	F12	E12	GND
GND	F13	E13	GND
CLKA	F14	E14	GNT1#
GND	F15	E15	RST#
CLKB	F16	E16	+5V(I/O)
GND	F17	E17	GNT0#
REQ0#	F18	E18	GND
+5V(I/O)	F19	E19	REQ2#
AD31	F20	E20	AD30
AD29	F21	E21	+3.3V
GND	F22	E22	AD28
AD27	F23	E23	AD26
AD25	F24	E24	GND
+3.3V	F25	E25	AD24
C/BE3#	F26	E26	GNT2#
AD23	F27	E27	+3.3V
GND	F28	E28	AD22
AD21	F29	E29	AD20
AD19	F30	E30	GND
+3.3V	F31	E31	AD18
AD17	F32	E32	AD16
C/BE2#	F33	E33	+3.3V
GND	F34	E34	FRAME#
IRDY#	F35	E35	GND
+3.3V	F36	E36	TRDY#
DEVSEL#	F37	E37	GND
PCIXCAP	F38	E38	STOP#
LOCK#	F39	E39	+3.3V
PERR#	F40	E40	SDONE
+3.3V	F41	E41	SBO#
SERR#	F42	E42	GND
+3.3V	F43	E43	PAR
C/BE1#	F44	E44	AD15
AD14	F45	E45	+3.3V
GND	F46	E46	AD13
AD12	F47	E47	AD11
AD10	F48	E48	GND
M66EN	F49	E49	AD09
KEY			KEY
KEY			KEY
AD08	F52	E52	C/BE0#
AD07	F53	E53	+3.3V
+3.3V	F54	E54	AD06
AD05	F55	E55	AD04
AD03	F56	E56	GND
GND	F57	E57	AD02
AD01	F58	E58	AD00
+5V(I/O)	F59	E59	+5V(I/O)
ACK64#	F60	E60	REQ64#
+5V	F61	E61	+5V
+5V	F62	E62	+5V
KEY			KEY
KEY			KEY
RSVD	F63	E63	GND
GND	F64	E64	C/BE7#
C/BE6#	F65	E65	C/BE5#
C/BE4#	F66	E66	+5V (I/O)
GND	F67	E67	PAR64
AD63	F68	E68	AD62
AD61	F69	E69	GND
+5V (I/O)	F70	E70	AD60
AD59	F71	E71	AD58
AD57	F72	E72	GND
GND	F73	E73	AD56
AD55	F74	E74	AD54
AD53	F75	E75	+5V (I/O)
GND	F76	E76	AD52
AD51	F77	E77	AD50
AD49	F78	E78	GND
+5V (I/O)	F79	E79	AD[48]
AD[47]	F80	E80	AD[46]
AD[45]	F81	E81	GND
GND	F82	E82	AD[44]
AD[43]	F83	E83	AD[42]
AD[41]	F84	E84	+5V (I/O)
GND	F85	E85	AD[40]
AD[39]	F86	E86	AD[38]
AD[37]	F87	E87	GND
+5V (I/O)	F88	E88	AD[36]
AD[35]	F89	E89	AD[34]
AD[33]	F90	E90	GND
GND	F91	E91	AD[32]
RSVD1	F92	E92	RSVD3
RSVD2	F93	E93	GND
GND	F94	E94	RSVD4

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