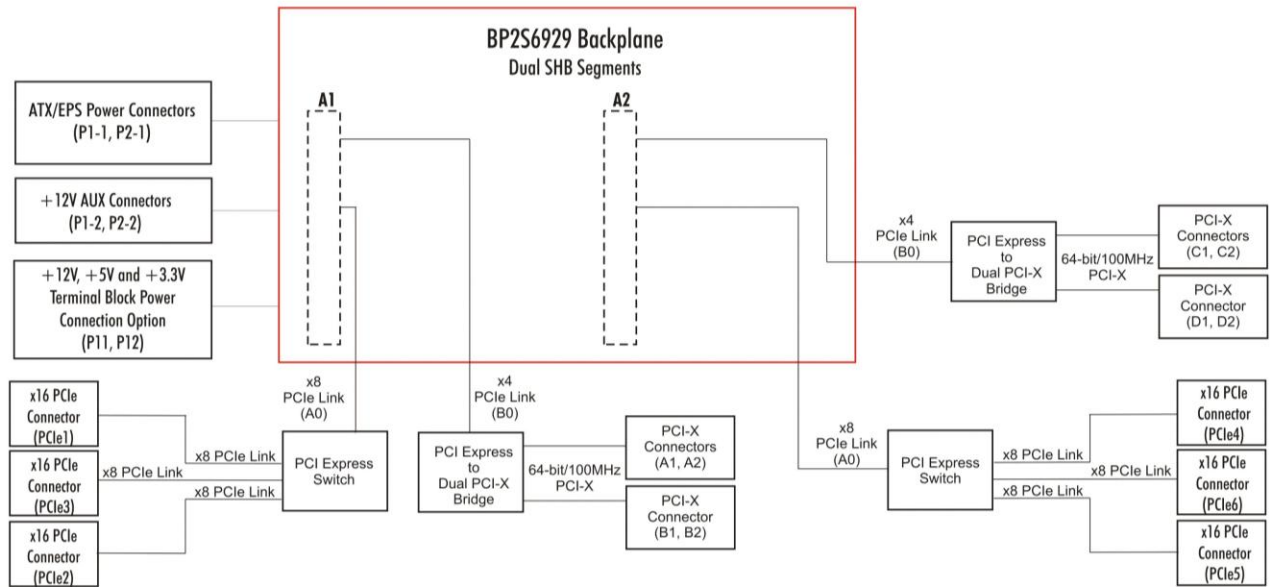
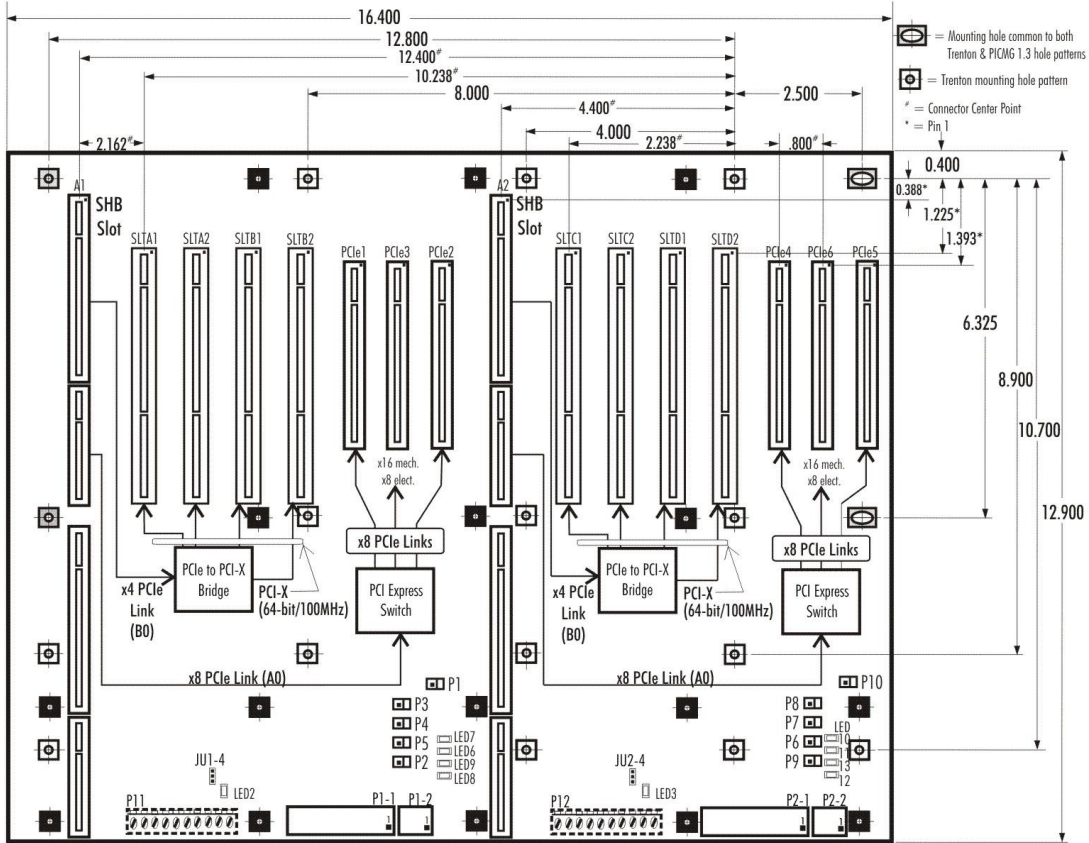


Technical Information – Jumpers and Connectors BP2S6929 (6929) Two-Segment PCI Express / PCI-X Backplane

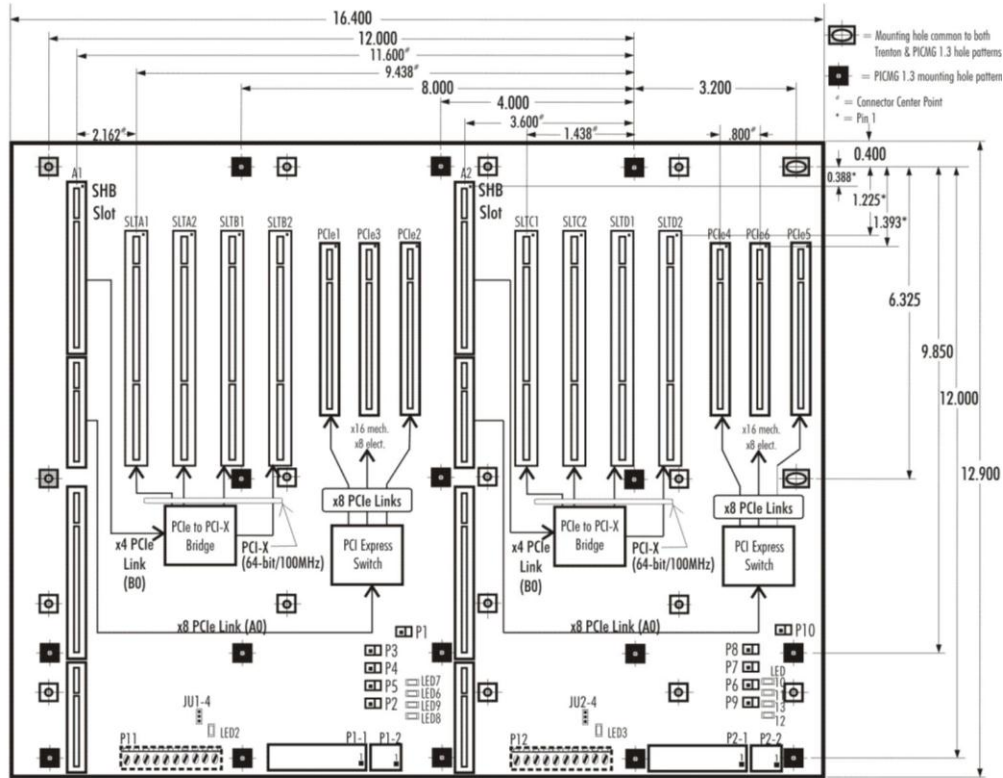
Block Diagram



Layout Diagram – 6929 Trenton Hole Pattern Dimensions



Layout Diagram – 6929 PICMG 1.3 Hole Pattern Dimensions



Notes:

- Dotted lines indicate connectors and other components that are populated based on model name and number.
- Mounting holes have a nominal 0.156" diameter
- Nominal PCB thickness: 0.080"
- All dimensions are inches.
- Suggested Trenton PICMG 1.3 SHBs for use with the BP2S6929 backplane models:
 - Dual-processor SHBs: MCXT, MCXT-E, MCGT, MCGT-E, SLT and NLT
 - Single-processor SHBs: MCXI, MCGI, TQ9, TML, T4L, SLI and NLI
- Power Diagnostic LEDs
 - Segment 1 / Segment 2
 - LED2 / LED3 = 5V_AUX
 - LED7 / LED10 = +5V
 - LED6 / LED11 = +3.3V
 - LED9 / LED13 = -12V
 - LED8 / LED12 = +12V
- ACPI Power Headers
 - Segment 1 / Segment 2
 - P3 / P8 = PSON
 - P4 / P7 = PWRBTN
 - P5 / P6 = PWRGD
 - P2 / P9 = SHB RESET
 - P1 / P10 = SMBus

BP2S6929 (6890) Configuration Jumpers

The setup of each SHB segment's configuration jumper on the backplane is described below. * indicates the default value of the jumper.

NOTE: For the two-position jumper (3-post) in SHB segments, "TOP" and "BOTTOM" refer to positioning when the backplane is viewed with the SHB's I/O plate(s) at the top end of the backplane.

NOTE: JU1-4 and JU2-4 indicates the JU4 jumper in SHB segments one and two.

<u>Jumper</u>	<u>Description</u>
JU1-4, JU2-4	+5V Auxiliary Voltage Install on the TOP if +5V auxiliary voltage is provided by the standard +5V supply. This option is used for systems which do not have either an ATX or EPS standard power input. This mode provides the necessary +5V for the SHB's +5VAUX signal lines. Sleep mode recovery is not supported using non-ATX/EPS power supplies. *
	Install on the BOTTOM if +5V auxiliary voltage is provided by a separate +5VAUX signal input pin. This enables the necessary SHB power signaling and allows recovery from sleep mode. This option is used for ATX or EPS standard power supplies.

BP2S6929 (6890) Connectors

NOTE: Pin 1 on the connectors is indicated by the square pad on the PCB.

P1-1, P2-1 EPS Power Connector

24 pin right angle dual row, Molex #39-30-1240

<u>Pin</u>	<u>Signal</u>	<u>Pin</u>	<u>Signal</u>
1	+3.3V	13	+3.3V
2	+3.3V	14	-12V
3	Gnd	15	Gnd
4	+5V	16	PSON#
5	Gnd	17	Gnd
6	+5V	18	Gnd
7	Gnd	19	Gnd
8	PWRGD	20	-5V
9	+5VAUX	21	+5V
10	+12V	22	+5V
11	+12V	23	+5V
12	+3.3V	24	Gnd

P1-2, P2-2 +12V Power Connector

8 pin right angle dual row, Molex #39-30-0080

<u>Pin</u>	<u>Signal</u>	<u>Pin</u>	<u>Signal</u>
1	Gnd	5	+12V
2	Gnd	6	+12V
3	Gnd	7	+12V
4	Gnd	8	+12V

P11, P12 Terminal Block Connector

10 position terminal block, Phoenix, #19-35-24-2

20 Amps per circuit

<u>Pin</u>	<u>Signal</u>	<u>Pin</u>	<u>Signal</u>
1	+12V	6	Gnd
2	+12V	7	Gnd
3	+5V	8	Gnd
4	+3.3V	9	Gnd
5	+3.3V	10	Gnd

P3, P8 - PSON Signal Connector

2 position header, Amp, #640456-2

<u>Pin</u>	<u>Signal</u>	<u>Pin</u>	<u>Signal</u>
1	Gnd - 1 / Gnd - 2	2	PSON# - 1 / PSON# - 2*

* = Active low signal

P4, P7 - PWRBTN (Power Button) Signal Connector

2 position header, Amp, #640456-2

<u>Pin</u>	<u>Signal</u>	<u>Pin</u>	<u>Signal</u>
1	Gnd - 1 / Gnd - 2	2	PWRBTN# - 1 / PWRBTN# - 2*

* = Active low signal

BP2S6929 (6890) Connectors (continued)

P5, P6 - PWRGD (Power Good) Signal Connector

2 position header, Amp, #640456-2

<u>Pin</u>	<u>Signal</u>	<u>Pin</u>	<u>Signal</u>
1	PWRGD# - 1 / PWRGD# - 2	2	+3.3V - 1 / +3.3V - 2

P2, P9 - SHB RESET Signal Connector

2 position header, Amp, #640456-2

<u>Pin</u>	<u>Signal</u>	<u>Pin</u>	<u>Signal</u>
1	Gnd - 1 / Gnd - 2	2	SHBRST# - 1 / SHBRST# - 2*

* = Active low signal

P1, P10 - SMBus Signal Connector

2 position header, Amp, #640456-2

<u>Pin</u>	<u>Signal</u>	<u>Pin</u>	<u>Signal</u>
1	SMDAT - 1 / SMDAT - 2	2	SMCLK# - 1 / SMCLK# - 2*