

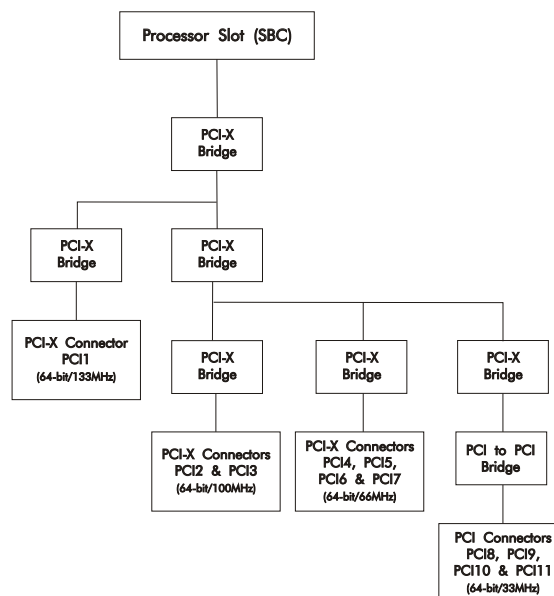


### FEATURES

- 14-slot form factor supports one PICMG® 1.0 single board computer
- Eleven PCI-X/PCI option card slots
- PCI-X card slot configurations: one 64-bit/133MHz, two 64-bit/100MHz and four 64-bit/66MHz
- PCI card slot configurations: four 64-bit/33MHz
- Optimized for use with Trenton high-performance PICMG 1.0 single board computers
- Automatically detects PCI or PCI-X option card type and matches segment speed to the card detected for maximum system performance
- Enables high-speed, peer-to-peer PCI-X option card communications
- Flexible input power connector configuration options
- Two-year factory warranty
- Made in U. S. A.



### BLOCK DIAGRAM:



### PICMG 1.0 BACKPLANE WITH PCI-X and PCI SLOTS:

The Trenton BP1/1/2/4/4 backplane supports PICMG® 1.0 single board computers (SBCs). PCI-X bridge chips used on this backplane offer far more than secure data communications between high-speed PCI-X option cards and the SBC. These chips also are smart enough to detect the difference between a universal PCI and PCI-X card as well as a card's interface speed configuration. This information allows the bridges to match the card to the card slot's interface parameters resulting in optimal settings that maximize overall system performance. The bridge chips also support direct peer-to-peer PCI-X card communications for those cards that implement this PCI-X interface protocol capability.

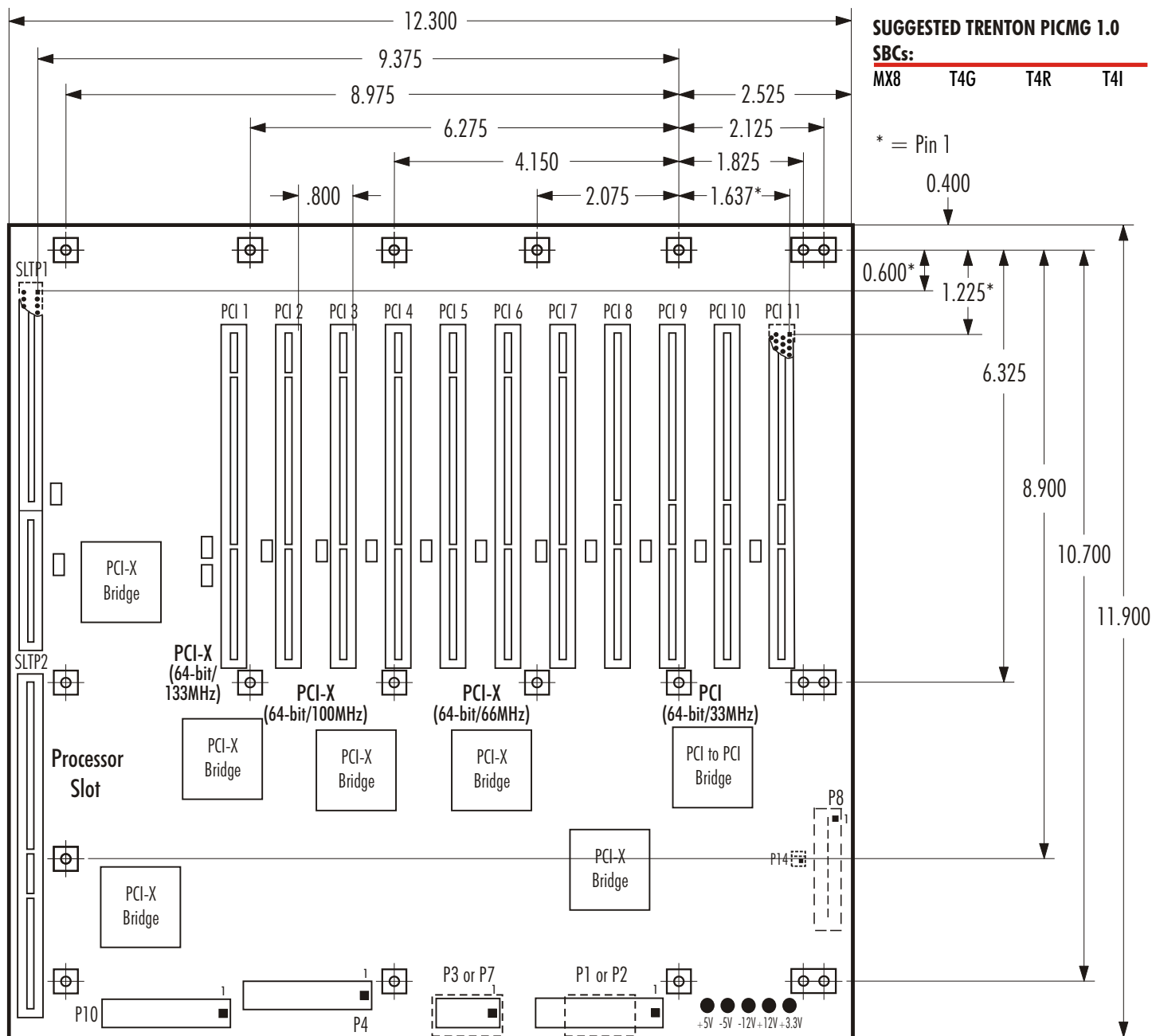
### APPLICATION EXAMPLES:

A system design that needs COTS option card support for a mix of PCI-X and PCI cards simultaneously is the ideal application scenario for the BP1/1/2/4/4 backplane. Backplane card slot PCI-1 supports 64-bit/133MHz, high-performance PCI-X graphics and video cards. The backplane design enables a blending of PCI-X and PCI cards while ensuring that each card operates at peak interface bandwidth capability. The backplane enables systems to take advantage of the ability of PCI-X cards to communicate directly with each other in high-speed peer-to-peer applications. Example applications include; medical diagnostics, machine vision inspection, transportation, telecommunications and military systems.

### BACKPLANE MODEL: BP1/1/2/4/4

MODEL#	DESCRIPTION
6120-000	Standard AT input power connectors
6120-001	Standard ATX input power connectors
6120-002	Extended-current input power connectors

**BP1/1/2/4/4 LAYOUT:**



**ENVIRONMENTAL SPECIFICATIONS:#**

**Operating Temp.:** 0° C. to 50° C

**Storage Temp.:** -20° C. to 70° C

**Humidity:** 5% to 90%, non-condensing

# Environmental specifications for single board computers are usually lower than those of the backplane. Check with your SBC vendor.

The Trenton BP1/1/2/4/4 is available as either a non-RoHS or a lead-free, RoHS compliant backplane.

This backplane is designed to meet worldwide EMI emissions requirements, CE conformity and immunity standards. Contact Trenton for specific standard numbers.

The Trenton BP1/1/2/4/4 backplane is designed for UL approval.

**Engineering Notes:**

All power connectors are shown in the layout drawings. The connectors are populated based on model.

Nominal PCB thickness: 0.062"

Connector spacing: .800" centers

To find the center of a PCI-X/PCI option card connector to the left of the reference dimension hole, add 0.150" to the pin 1 location dimension.

Mounting holes: 0.156" diameter

All dimensions are inches.

**Product Photo Note:**

The photo of the 6120 backplane shown on page one is provided for illustrative purposes only. Actual connector locations are illustrated in the backplane layout drawings and on the Trenton website.

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