

# NEWS RELEASE



For Immediate Release

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## **TRENTON Technology Introduces New Multi-Segment Backplane**

### ***Trenton BP4FS6890 Tackles Tough Cluster Computing Applications***

Atlanta, GA – Trenton announces the availability of the BP4FS6890 multi-segment backplane. The BP4FS6890 backplane allows four single board computers to operate simultaneously in one 19" rackmount system chassis. The processor boards have the ability to run independent software applications or function together as part of a computer cluster. The backplane allows customers to implement system designs that use less rack space. Typical system applications for the BP4FS6890 backplane include; unmanned aircraft control, cryptography and surveillance systems.

Trenton's BP4FS6890 backplane is factory configured to support either server-class or graphics-class PICMG 1.3 system host boards or SHBs. In addition to one SHB, each BP4FS6890 SHB segment also contains two x16 PCI Express® mechanical slots and server-class models offer an extra x8 PCIe mechanical slot. One of the x16 PCIe slots in each segment of the graphics-class backplane model is driven with a x16 PCI Express electrical link. Support for industry standard PICMG 1.3 SHBs is included in the BP4FS6890 backplane design including high performance system host boards like the Trenton MCX/MCG-series featuring two, multi-core Intel® Xeon® processors and the TQ9 featuring the Intel® Core™ 2 Q9400 long-life, quad-core embedded processor.

"The BP4FS6890 backplane design allows customers to deploy what amounts to four independent, high-performance industrial computers in one industry standard, 4U, 19" rackmount computer system enclosure," said Steve Riley, Design Engineer at Trenton Technology. "In a cluster computer application, the optional GigE switch on the backplane provides a fabric interface which allows the four PICMG 1.3 SHBs to share data and interface to an upstream host over a the backplane's Ethernet hub port."

## BP4FS6890 – PICMG 1.3 PCI Express Four Segment Backplane Specifications

- 20-slot form factor backplane [16.4" (w) x 12.9" (d)]
- Four PICMG 1.3 server- or graphics-class system host board slots
- Twelve PCI Express option card slots (Server-class Models)
  - Slot configuration for each SHB segment
    - Two x16 mechanical PCIe card slots driven with x8 PCIe electrical links
    - One x8 mechanical PCIe card slot driven with a x4 PCIe electrical link
- Eight PCI Express option card slots (Graphics-class Models)
  - Slot configuration for each SHB segment
    - One x16 mechanical PCIe card slot driven with x16 PCIe electrical link
    - One x16 mechanical PCIe card slot driven with x4 PCIe electrical link
- Optional Gigabit Ethernet switch, backplane fabric interface and Ethernet hub port connector
- Right-angle ATX/EPS and 12V AUX power connector option
- High-current, +12V input power using standard terminal blocks option uses built-in SHB segment power regulation

### Pricing and Availability

The Trenton BP4FS6890 backplane is available now with a list price of \$1,095. Backplane pricing varies with model and quantity discounts. Contact Trenton for the latest information on pricing discounts as well as volume and OEM purchase programs.

### About Trenton Technology

Trenton Technology is a designer and manufacturer of single board computers, backplanes, system host boards, processor AMCs and complete industrial rackmount computer systems for critical embedded computing applications such as military, DoD, medical instrumentation, industrial control and others that require performance, precision and reliability. Trenton is a member of the Intel® Embedded and Communications Alliance, a community of communications and embedded developers and solution providers.

Trenton offers PCI Express, PCI-X, PCI, ISA and MicroTCA® board- and system-level industrial rackmount computer products manufactured in an ISO 9001:2008 certified USA facility. All Trenton Technology PICMG 1.3 products are backed by a full five-year warranty and Trenton's no charge technical support.

For more information about our BP4FS6890 backplane, or any other Trenton product, call (800) 875-6031 or (770) 287-3100. You can also visit our website at [www.TrentonTechnology.com](http://www.TrentonTechnology.com) or e-mail us at [Info@TrentonTechnology.com](mailto:Info@TrentonTechnology.com).

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