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K2-HA

K2-HA is a 6U CPU developed for the Cascade High Availability System. With a PowerPC 750 running at up to 500MHz, this controller is capable of handling computation-intensive system applications. K2-HA provides master or slave operation on both CompactPCI buses in any combination, permitting full usage in a load-balancing architecture, or providing full redundancy in a high availability scenario. Multiple ETHERNET and serial interfaces give ample flexibility in system configuration. The PMC module, coupled with other PMC interface offerings from SBS, provides additional flexibility in defining system interfaces.

K2-HA is a full hot swap, highly available single board computer permitting development of true high availability solutions on the Cascade High Availability System. The availability of two fail-over ports permits operation with or without an alarm module in the system. The fail-over ports also facilitate rapid hardware driven fail-over.

The board comes with VxWorks or Hard Hat Linux support. Additional software for hot swap and high availability, complying with PICMG specification, is available for rapid application development.

FEATURES/BENEFITS

- Dual CompactPCI buses on the backplane
- Capable of System/Non-System controller operations on both buses
- PowerPC 750 running at up to 500MHz
- 1 MB of Level 2 cache to 250MHz
- 100MHz system bus, to 512 MB of SDRAM
- High-performance IBM CPC710 PPC/PCI bridge offers 2 independent buses
- Second 64-bit CPCI bus via a DEC 21154 64-bit PCI-PCI bridge
- IDE interface on rear connector
- Dual 100BASE-Tx ETHERNET interfaces
- Dual serial interfaces to 115 Kbaud
- I^2C controller interface to system management bus
- 2 8-bit fail-over control ports
- 1 PMC module for expandability
- OS options include VxWorks and Hard Hat Linux

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