

Topic: R1200 Memory Configurations
Component(s) Affected: R1200 Blade PC
Date: January 30, 2004

OVERVIEW / ENVIRONMENT

Memory configuration can significantly affect the performance of the R1200.

DETAILED DESCRIPTION

Memory on the R1200 should be installed to achieve the highest performance. When correctly populated, the two DIMM memory slots on the R1200 provide as much as 6.4GB/s of memory bandwidth at a density as high as 2GB.

The memory controller integrated into the chipset allows the system to function in either single channel or dual channel modes. The blade can operate in either a single channel or dual channel mode, depending on whether one or both slots are populated. The dual channel configuration offers higher performance than the single channel configuration.

When operating in dual channel mode, it is recommended that the DIMM slots be populated with matched memory pairs. To provide the highest performance, these should be PC3200, non-ECC, unbuffered DIMMs, with matching speeds, latencies, densities, and if possible, manufacturers.

RESOLUTION

When installing or adding memory to the R1200, always install DIMMs in matched pairs, in terms of speed, density, latencies, etc., into the slots for optimal memory performance.

For more information, please contact ClearCube technical support.

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