

Leap into the future with Fully Buffered DIMM

Business moves at light-speed today. Everyone wants answers now. Your customers need servers that work as fast as they think. Damaged data and downtime? No time for it. Data needs to be safe, accurate, and available – now.

Memory that keeps pace with dual-core processing

New multi-core processing and advancements in I/O on Dual-Core Intel® Xeon® processor-based server platforms offer twice the performance power and 30% faster data movement¹. The current memory architecture just can't keep pace with multi-core processing. A new memory technology, the Fully Buffered Dual In-line Memory Module (FBDIMM), solves the server memory limitation problem and is a key part of Intel's new balanced server platform – with processors, memory, and I/O tuned to peak performance. In a balanced platform, everything works together to contribute to customer productivity, peace of mind, and technology savings.

FBDIMM delivers three important benefits to business:

- **Increased responsiveness and business productivity.** FBDIMM provides up to three times the memory throughput² and up to four times the memory capacity³ of current Intel®-based server platforms that use DDR2 memory. Bottom-line benefits for your customers: more responsive applications and more data processing capacity.
- **More growing room.** With four-channel operation and four times the memory capacity of DDR2, FBDIMM gives customers plenty of growing room and flexibility in memory options. With 16-FBDIMM-capable server boards, users can now choose lower cost, lower density DIMMs to achieve similar memory configurations that would have previously required very expensive solutions.
- **Built-in data reliability and security features.** FBDIMM offers innovative built-in data reliability and security features to help improve data access, integrity, and prevent loss of any single memory failure.



Contact a supplier today!

Intel is working with several memory suppliers to meet your FBDIMM needs. Contact a supplier listed below to place your first order and ensure ongoing supply to meet your needs. Don't make your customers wait!


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¹ <http://www.intel.com/technology/ioacceleration/306484.pdf>.

² Based on the Dual-Core Intel® Xeon® Processor 5000 sequence (Dempsey)/Blackford chipset with four memory channels each running at 667 MHz results in a theoretical throughput of 21.3 GB/s as compared to an Intel® Xeon® Processor with 800 MHz FSB with Intel® E7320 chipset with 2 memory channels at 400 MHz gives 6.4 GB/s theoretical throughput.

³ Based on the Dual-Core Intel® Xeon® Processor 5000 sequence (Dempsey)/Blackford chipset which supports up to 16 DIMM slots using 4 GB DIMMs as compared to a system with an Intel® Xeon® Processor with 800 MHz FSB and Intel® E7320 chipset which supports up to 8 DIMM slots with 2 GB DIMMs.

*Other names and brands may be claimed as the property of others.

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