

# Next-generation Intel® Xeon™ Processor Based Workstation

## Intel® Xeon™ Processor

Enables faster system responsiveness with support for increased memory addressability

- **3.60 GHz Frequency** – Built on Intel's newest 90 nanometer technology to help improve your platform compute power and response time
- **Intel® Extended Memory 64 Technology (Intel® EM64T)** – Provides 64-bit addressability and related instructions<sup>1</sup>
- **Hyper-Threading Technology** – Designed to improve performance of multi-threaded applications
- **Streaming SIMD Extension 3 (SSE3) Instructions** – 13 new instructions designed to improve thread synchronization and specific application areas such as media and gaming
- **Demand Based Switching (DBS) with Enhanced Intel Speedstep® Technology** – Provides opportunity to help improve acoustic solution by lowering average processor power during periods of low processor utilization

## DDR2-400 Memory

Provides power savings (vs. DDR technology), flexibility and increased performance

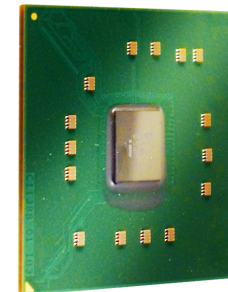
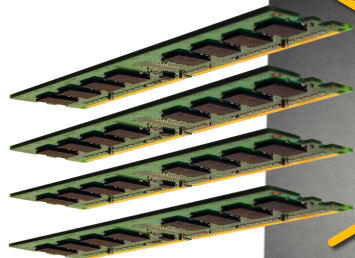
- Enables power savings up to 40%<sup>3,4</sup>
- Allows up to 4 DIMMs per channel at 400 MHz
- Increases sustainable memory bandwidth by up to 11% (STREAM)<sup>3,4</sup>

## Intel® E7525 Chipset

Helps eliminate system bottlenecks by balancing performance between the processor, I/O and memory

- **800 MHz System Bus** – Provides 1.5x throughput capacity improvement compared to DP 533 MHz systems
- **Reliability, Availability and Scalability (RAS) Features** – Improves capabilities for processor, memory controller and I/O components

The 2004 Intel® Xeon™ processor based workstation provides excellent performance today with plenty of room for future growth.



## PCI Express\* I/O<sup>2</sup>

Next-generation serial I/O technology provides higher bandwidth, lower latency, better efficiency and higher reliability compared to PCI

- Provides 2x increase in graphics bandwidth capacity compared to AGP8x

for more information go to: [www.intel.com](http://www.intel.com)



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

<sup>1</sup> Intel® Extended Memory 64 Technology (Intel® EM64T) requires a computer system with a processor, chipset, BIOS, OS, device drivers and applications enabled for Intel EM64T. Processor will not operate (including 32-bit operation) without an Intel EM64T-enabled BIOS. Performance will vary depending on your hardware and software configurations. Intel EM64T-enabled OS, BIOS, device drivers and applications may not be available. Check with your vendor for more information.

<sup>2</sup> PCI Express reduced power-state "L0s" is not supported

<sup>3</sup> Compared to DDR 333

<sup>4</sup> Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, visit <http://www.intel.com/performance/resources/limits.htm>.