



Intel® Xeon™ processor MP-based solutions

Performance, scalability, and
reliability for the application tier
and server consolidation

- Supports 4-Way+ Server Platforms
- Up to 4MB of On-Die Cache
- Three Year Limited Warranty



Boxed Intel® Xeon™ Processor MP

Built on the .13 Micron Process Technology with up to 4MB on-die cache



The Intel® Xeon™ processor MP provides mid-to-high and back-end users with world class performance for demanding

enterprise applications. Running at up to 3 GHz with up to 4MB of integrated Level 3 Cache, the Intel® Xeon™ processor MP is the processor of choice for demanding server applications.

The New Performance Standard

The new Intel® Xeon™ processor MP brings a broad range of innovations that make it the new performance standard for the most demanding enterprise and e-Business server applications. Designed specifically for multi-threaded applications in multi-processor server environments, the Intel Xeon processor MP with Hyper-Threading Technology and integrated three-level cache architecture delivers unprecedented performance and scalability.

Consolidation of the mid-tier

Mid-tier and back-end applications have characteristics that are fundamentally different from most front-end applications, including:

- Larger software footprints
- More complex transactions
- Larger data sets

Many of these applications are also multi-threaded, capable of processing multiple instruction streams simultaneously. Multi-threading can improve resource utilization to enhance capacity and throughput.

Because of these characteristics, mid-tier and higher applications typically benefit from more robust server platforms. Multiple dual-processor servers can deliver massive processing for easily distributed workloads, but complex applications and transactions benefit from concentrated, tightly coupled processing power acting on a single memory space. Servers based on the Intel® Xeon™ processor MP can help you consolidate your IT infrastructure into fewer servers.

Lower operational costs

The use of more powerful multi-processor-based servers simplifies the infrastructure and reduces the drain on data center resources, such as power, cooling, floor space and network bandwidth. This can save a substantial amount on monthly utility payments. Even more importantly, it can reduce the need for costly, and potentially disruptive, data center build outs.

Scale right

Microsoft Exchange Server* is a good example of an application that scales most effectively on multiple 4-way servers. Not only do 4-way Intel processor-based servers match the workload demands of Exchange, but they are easily deployed at multiple locations. This distributed approach helps to avoid the latency issues that can impact performance when a centralized infrastructure is used to serve a large number of distributed users.





Enhancing Business Value

Business places tough demands on servers. It requires stable platforms that give unflinching availability during peak workloads, uncomplaining flexibility to run everything from data mining to Web services, and unstoppable performance to keep users and customers happy. Just as important is the need to keep an eye on the bottom line with server solutions that are easy to manage.

Key Design Features and Benefits

Features	Benefits
Supports 4-Way and Above Server Platforms	Mid-tier and back-end applications can be run on a single memory space
Processor speeds available at up to 3 GHz with up to 4MB of cache	Higher throughput when accessing memory and I/O devices for improved server headroom and scalability
Hyper-Threading Technology	Allows two threads to be assigned to each processor within the system. This means that when a single processor is waiting for data or instruction retrieval for one thread, it can be actively processing the other thread.
Integrated three-level cache architecture	On-die cache allows data and instructions to be stored and accessed up to 30 times faster than main memory.

CPU speed/cache	Boxed product order code	MM numbers	S-Spec number(s)
3 GHz/4MB	BX80532KC3000H	857561	SL79V
2.70 GHz/2MB	BX80532KC2700F	857562	SL79Z
2.20 GHz/2MB	BX80532KC2200F	857558	SL7A5

**For the most current product information on the boxed Intel® Xeon™ processor MP,
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