

Best Practice Series

Higher Capacity Modules

Introduction

The Kingston® Best Practices series is designed to help users of our products achieve the best user experiences. This edition covers the advantages of installing the highest capacity memory modules in your servers and notebooks.

Why Choose Higher Capacities?

The higher capacity memory modules available today can help unlock higher performance and versatility in new notebooks and servers. As higher capacity memory becomes more affordable, it is a smarter decision for your business to move to the highest capacity you can afford. As you'll see from the following, higher capacity memory modules are not only efficient, they can also reduce your power consumption, which has many benefits to your business — and to the environment.

Make sure the memory you choose is covered by free tech support and a free lifetime warranty, to reduce your Total Cost of Ownership. Rest assured that Kingston memory comes with this protection.

Find the exact memory you need for any server, desktop, notebook or digital device by using Kingston's Memory Finder at kingston.com.

Notebooks



Choose 4GB SO-DIMM modules to enhance the performance of newer notebooks that can support up to 8GB of memory.

Break the 4GB memory barrier with 64-bit operating systems (such as Windows and Linux 64-bit versions) to ensure the best possible performance.

Use Powerful Notebooks for Testing

Replace expensive development and test servers and workstations by using powerful notebooks configured with 8GB of memory. This works well for developing and testing Microsoft Hyper-V or VMware ESX Virtual Machines.

Servers



Maximize the memory capacity of your servers by choosing the highest capacity memory modules available today.

Plan Ahead For Virtualization

Choose 16GB server memory kits (a kit consisting of two 8GB modules) for virtualization and other memory-intensive multicore servers and applications. This should ensure that each virtualized server can support its Virtual Machines and their applications.

To plan for the future and increase your servers' Return on Investment, build memory headroom into your virtualization servers to support greater scaling up of your virtual infrastructure — without relying on ballooning and swapping capabilities to dynamically share and reallocate limited memory resources.

Memory and processors communicate in billionths of a second, compared to disk drives, which access data in thousandths of a second. By reducing the mass storage latency, you can improve the performance of your memory-bound servers.

Save Energy

Reduce your data center's server power consumption and heat dissipation by reducing the number of memory modules in your servers while increasing the capacity of each module. You'll save by reducing the power and cooling requirements in your data center. Note: Please be sure to check your server's installation manual for specific instructions and/or restrictions.

Technology moves at a fast pace. Processors, motherboard, and memory technologies all change quickly. Please contact your Kingston Sales Team with any questions you might have; we can provide you with the most up-to-date information and resources available.

For detailed information on Kingston memory products, please visit kingston.com.

