

Leadership enterprise server with significantly lower cost of ownership in a highly available and dependable, rack-mount, 1U dual-socket server

IBM



## Product Guide

December 2008

# IBM System x3550 M2

## Product Overview

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## Outstanding innovation in only 1U

**Suggested Uses:** All sectors requiring highly available, energy-efficient, rack-optimized solution for physical and virtual internet commercial environments like eBusiness/eCommerce, collaboration, virtualization, databases, and enterprise resource planning applications.

Your challenge is to do more with less—serve more Web pages, handle more secure connections, support more e-mail users. You need to reduce the costs of doing business and improve the service you deliver to your customers while lowering your overall risk. The **dedicated IBM® System x3550 M2** can reduce your costs with its new energy smart design. It can improve service with reduced operational complexity and increased management functionality. It will lower your IT risk with the reliability that comes from no single point of failure. And that of IBM servers, the x3550 M2 offers you the trust that comes from the IBM global reach, service and support.

The x3550 M2 is not simply an upgrade to a previous server... It is one of our new generation of **2-Architecture** servers. It is a game-changing, completely redesigned rack server using significantly less power with unified systems management tools, leadership reliability, availability, connectivity features and tested systems flexibly housed in a compact 1U mechanical package.

The x3550 M2 features Intel® Xeon® 5500 Series Xeon and 2-core processors and either SAS or SATA of shared drives, to help provide you with the computing power you need to match your business needs and growth. The new line of Intel processors delivers unprecedented, intelligent performance with features like adaptive performance for applications and environments, turbo boost and hyper-threading technology, and integrated power gates and automated power management.

The x3550 M2 uses up to **16 GBs** with **12GB** of registered **DDR3** memory with **OnChip ECC Error Checking and Correcting** protection—for high performance and reliability. For even higher levels of availability, the x3550 M2 also offers online memory mirroring, up to 4 integrated high-speed **Gigabit Ethernet** controllers with **1Gb** TCP Offload Engine and **Double Frame** support are available, as are two high-performance adapter slots (PCI-e x16). The x3550 M2 offers an optional **embedded hypervisor** to manage your virtual workload.

The x3550 M2 offers a choice of up to six high-performance hot-swap hard disk drives with an internal storage capacity of **3.0TB** (six 5.25-inch hot-swap Serial-Attached SCSI (SAS) or SATA HDDs). Optional solid-state drives are also available to keep power low and improve efficiency and offer up to **160GB** of storage. The server supports a choice of four **IBM SmartFlash®** storage controllers which provide broad levels of hardware-based **RAID** solutions. The integrated 16 form factor drives businesses to increase their computing power and spread their workload without outgrowing their current data center. Up to **42** of these 1U servers can be installed in a single 42U rack, for a total of up to **84** processors and **336** processor cores, offering tremendous deployment flexibility. Optional Advanced Connectivity Technology (ACT) interconnect cabling reduces cable clutter and cost and increases installation time when interconnecting many rack-mounted servers.

Standard in the x3550 M2 is the Integrated Management Module (IMM) that enables the user to manage and control the server easily—both locally and remotely. In conjunction with the BMC, the x3550 M2 comes with an **altitude sensor (altimeter)** that **governs fan rotation** based on altitude, to help lower your energy consumption. The IMM offers a high level of manageability that is designed to keep costs down and the system up—even when network usage increases. IMM's innovative pop-out/stop-down **light path diagnostic panel** enables quick servicing of the system if a problem develops. These advanced features help maximize network availability by increasing uptime, as do hot **single-socket solid-state drives**, hot **swap-redundant SAS** or **SATA HDDs**, redundant ultra-efficient power supplies and fan modules, **Active Memory**, integrated **RAID**, temperature-controlled fans with **Calibrated Fan-based Cooling™**, **PERC-2.0** system, including **highly secure remote power control** and **Serial over LAN**, as well as **test-ready** reduced power **LAN**.

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**Clifford Lane**



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