

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

IBM



## Product Guide

December 2009

# 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 intensive commercial environments like eBusiness/e-Commerce, collaboration, virtualization, database, 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 **dual-socket 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 resiliency that comes from no single point of failure. And like all 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 X-Architecture servers. It is a game-changing, completely redesigned rack server using significantly less power with unified systems management tools, leadership reliability, serviceability features and broad systems flexibility housed in a compact 1U mechanical package.

The x3550 M2 features Intel® Xeon® 5500 Series 4-core and 2-core processors and either **8MB** or **4MB** of shared cache, to help provide you with the computing power you need to match your business needs and growth. This 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 x3550M2 uses up to **16 DIMMs** with **12GB** of registered **1333MHz DDR3** memory with **Chipkill® ECC** (Error Checking and Correcting) protection—for high performance and reliability. For even higher levels of availability, the x3550M2 also offers online memory mirroring. **Up to 4** integrated high-speed **Gigabit Ethernet** controllers with **TOE** (TCP Offload Engine) and **Jumbo Frame** support are available, as are two high-performance adapter slots (PCIe x16). The x3550M2 offers an optional **embedded hypervisor** to manage your virtual workloads.

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 **2.5-inch hot-swap Serial-Attached SCSI (SAS)** or **SATA** HDDs). Optional solid-state drives are also available to keep power low and improve resiliency and offer up to **300GB** of storage. The server supports a choice of four **IBM ServeRAID®** storage controllers which provide broad levels of hardware-based **RAID solutions**. The ultradense 1U form factor allows 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 minimizes 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 IMM, 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. IBM's innovative pop-out/drop-down **light path diagnostics** panel enables quick servicing of the system if a problem develops. These advanced features help maximize network availability by increasing uptime, as do hot **simple-swap 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 Vectored Cooling**, **IPMI 2.0** support, including **tightly secure remote power control** and **Serial over LAN**, as well as **text-console redirect over LAN**.

# Ibm System X3550 M2 Server Guide

**Jicheng Xie**



## **Ibm System X3550 M2 Server Guide:**

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