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Product Guide

December 2008

IBM System x3550 M2

Product Overview

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Supported Uses: All sectors requiring highly available, energy-efficient, rack-optimized solution for physical and virtual internet commercial environments (e.g. eBusiness/Commerce, Collaboration, Collaboration, Analytics) 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 **newest 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 a 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 **U-Architecture** servers. It is a game-changing, completely redesigned rack server using significantly less power with unified systems management tools, leadership reliability, availability, security features and broad systems flexibility housed in a compact 1U mechanical package.

The x3550 M2 features Intel® Xeon® (E5) Series Xeon and Xeon processors and either IBM or AMD 2-chip or shared cache, 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, 32-bit Intel and Hyper-Threading technology, and integrated power gates and automated power management.

The x3550M2 uses up to 16 DIMMs with 128GB of registered DDR3 ECC memory with **OnChip ECC Error Checking and Correction protection** for high performance and reliability. For even higher levels of availability, the x3550M2 also offers online memory mirroring. Up to 8 integrated high-speed **Optane Ethernet** connections with 10G (TCP Offload Engine) and **Juniper Frame support** are available, as are low high-performance adapter cards (PCIe x16). The x3550M2 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 2.4TB (six 3.5-inch **hot-swap Serial-Attached SCSI (SAS)** or **SATA HDDs**). Optional external drives are also available to keep your low and improve uptime and offer up to 16TB of storage. The server supports a choice of four **IBM SmartFlash™** storage controllers which provide broad levels of hardware-based **RAM solutions**. The standard 16 low factor drives businesses to increase their computing power and speed 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 224 processor cores, offering tremendous scalability. Optional **Advanced Connectivity Technology (ACT)** interconnect cooling 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 **IBM x3550 M2 comes with an attitude sensor (attitude)** that governs fan rotation based on attitude, 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 **pre-outgoing-down light path diagnostic** panel enables quick servicing of the system if a problem develops. Other advanced features help maximize network availability by increasing uptime, as do hot-swap energy **solid-state drives**, hot-swap-redundant SAS or SATA HDDs, redundant ultra-efficient power supplies and fan modules, **Active Memory**, integrated **RAM temperature-controlled fans with Calibrated Fan-based Cooling™**, **PERC-2L** support, including **light sensors** remote power control and Serial over LAN, as well as **self-healing network over LAN**.

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G Thomas



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