

Product Guide

February 2011



IBM System x3650 M3

Product Overview

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Business-critical 2U server packed with innovation

Suggested Uses: All sectors requiring highly available, energy-efficient, rack-optimized solution for physical and virtual internet portal/server environments and 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. This 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 x3650 M3** 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 x3650 M3 offers you the trust that comes from the IBM global reach, service and support.

The x3650 M3 is a game-changing rack server that uses significantly less power than previous generations, with unified systems management tools, leadership reliability, availability, serviceability features and smart system flexibility. Housed in a compact 2U mechanical package.

The x3650 M3 features Intel® Xeon® 5500 series E5506 and E5508 processors, with up to 12MB of shared L2 cache, to 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 Technology and Hyper-Threading Technology, and integrated power gates and automated power management.

The x3650 M3 supports up to 16 DIMMs, 18GB or 10GB of PC8000 1215MHz DDR3 memory (or up to 12 GBs or 4GB of UDIMM memory) and provides **Onboard ECC Error Checking and Correcting** protection for high performance and reliability. For even higher levels of availability, the x3650 M3 also offers **server mirroring**. Up to 4 integrated high-speed **Quad Ethernet** controllers are available (offering 1Gb TCP/Offload Engine) support on **Microsoft Windows®**, as are four high-performance adapter slots (PCIe x8). The x3650 M3 offers an optional **embedded hypervisor** to manage your virtual workloads.

The System x3650 M3 supports up to 16 high-performance hot-swap HDDs with an internal storage capacity of **16TB** (3.5-inch hot-swap **Serial-Attached SCSI (SAS)** or **Serial-Attached ATA (SATA)** drives). Alternatively, up to 16 **ultra-wide drives (UWDs)** are also available to keep power low, improve resiliency, and offer up to 800GB of storage. To address your backup needs, up to **eight** HDDs or UWDs and one internal tape drive or removable disk cartridge drive can be used. The server includes a choice of several **IBM ServeGuard®** storage controllers that provide broad levels of high-performance **SAS solutions**. This ultra-dense 2U form factor offers

businesses to increase their computing power and spread their workload without outgrowing their current data center. Up to 24 of these 2U servers can be installed in a single 42U rack, for a total of up to 432 processors and 288 processor cores, offering tremendous deployment flexibility.

Standard in the x3650 M3 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 x3650 M3 comes with a **Smart Sensor** (intelligent sensor controller) 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 pre-built-in **light path diagnostics** permit faster, quick servicing of the system if a problem develops. These advanced features, plus maximum network availability for networking options, as its hot-swap **SAS/SATA** drive, **hot-swap/redundant SAS or SATA** HDDs, redundant ultra-efficient power supplies and fan modules, **Active Memory**, integrated **SAS**, temperature-controlled fans with **Controlled Ventilated Cooling™**, **IPMI 2.0** support, including **Remote Sensor**, remote power control and Serial over LAN, as well as **Serial Remote** network over LAN.

¹ Available 3Q/2011.

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