

*the affordable dual-socket, dual- and quad-core SMP server with high performance and data protection for small and medium businesses*



**IBM**

## Product Guide

October 2006

# IBM System x3400

## Product Overview

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## Outstanding performance, capacity and availability

**[Suggested uses: Small-to-medium businesses, large multinational enterprises and bank branch offices seeking scalability, top performance and new availability features at an entry-level price.]**

The **dual-socket 60W<sup>®</sup> System x3400**, incorporating **IBM e-Architecture<sup>™</sup>** features, provides outstanding value to workgroups by combining scalable performance and availability features at an outstanding price. The x3400 supports the latest **quad- and dual-core Intel<sup>®</sup> Xeon<sup>®</sup> processors**, designed with up to a leading-edge **13.33GHz** front-side bus (FSB), **64-bit extensions (EM64T)** and **6MB** (dual-core) or **12MB** (quad-core) of L2 cache and **Hyper-Threading Technology**, to help provide you with the computing power you need to match your business needs and growth. In addition, the x3400 uses industry-standard **fully buffered 667MHz** memory with **Chipkill<sup>®</sup> ECC** (Error Checking and Correcting) protection—for high performance and reliability. For even higher levels of availability, the x3400 also offers a choice of optional **online hot-spare memory** or **memory mirroring**. An integrated high-speed **Gigabit Ethernet** controller is standard, as are high-performance adapter slots (**PCIe x8** and **x4** and **PCIx132**).

All models offer impressive scalability, including dual-processor support, up to **32GB** of memory and up to **four single- or up to four Serial ATA II (SATA II) hard disk drives** with a total capacity of up to **3.6TB<sup>1</sup>**, or up to **four high-performance hot-swap Serial-Attached SCSI (SAS) drives** with an internal storage capacity of **1.3TB**. Specific models support an upgrade kit that introduces hot-swap support to eight **SATA** or **SAS** drives (3.6TB or 2.4TB, respectively). For additional performance and high availability, the x3400 includes the hardware-based **ServerRAID-6H** controller standard, providing **RAID-0/1/10** support. Additional RAID support is available via the optional **IBM ServerAid<sup>™</sup>** family of **5A053A7A** and **128x120 6CC0** controllers. The x3400 ships as a tower unit; an optional rack conversion kit turns the x3400 into a **3U** rack-mounted server to save precious data center floor space.

Standard in the x3400 is a **Baseboard Management Controller (BMC)** that enables users to manage and control the server easily. This high level of manageability is designed to keep costs down and the system up—even when network usage increases. Other advanced features that help maximize network availability by increasing uptime, include **single- or hot-swap/redundant HDDs**, **hot-swap/redundant power and fans**, **Active Memory<sup>™</sup>**, **integrated RAID**, **temperature-controlled fans** with **Calibrated Vectored Cooling<sup>™</sup>**, **industry-standard IPMI 2.0** support, including highly secure remote power control and **Serial over LAN**, as well as **technosuite redirect over LAN**.

With the inclusion of unique IBM service and support features such as **IBM Director**, **IBM ServiceGuide<sup>™</sup>** and support for the optional **IBM Remote Supervisor Adapter II 5845Line**, the x3400 is equally well designed for a locally managed data center environment as for a remotely managed or stand-alone environment, while offering maximum availability.

For a balance of high-performance dual-core, dual-socket processing, high availability and vast internal SAS storage at a budget price, the x3400 is the ideal system.

## Selling Features

## Price/Performance

The x3400 offers numerous features to boost performance and reduce product- and operating costs:

- Up to **two multi-core Xeon processors** with high-end **1066MHz** or **1333MHz** front side bus and either **12MB** or **6MB** (processor-specific) of integrated Level 2 cache per processor offer superior performance capable of tackling the toughest jobs. **64-bit extensions** provide the flexibility to run 32-bit and 64-bit applications concurrently.
- **Low-voltage processors** draw less power and produce less waste heat than high-voltage processors, thus helping to reduce data center energy costs. On a per-core basis, the **60W** quad-core processors consume only **20W** per core, vs. **32.5W** per core for the 60W dual-core processors.
- Ultra-fast **fully buffered 667MHz PCI-6350 DDR II ECC** memory with **Chipkill** protection provides speed and high availability.

<sup>1</sup> TB equals 1,000,000,000 bytes and TB equals 1,000,000,000,000 bytes when referring to hard disk drive capacity. Accessible capacity may be less.

# Ibm X3400 Manual

**Hussin A.Rothana**



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