

Leadership enterprise server with significantly lower cost of ownership in a highly available and expandable, rack-dense, 2U dual-socket server



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 intensive commercial environments like eBusiness/eCommerce, 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 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 broad system flexibility, housed in a compact 2U mechanical package.

The x3650 M3 features **Intel® Xeon® 5600 series 6-core and 4-core processors**, with up to **12MB of shared L3 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 **18 DIMMs / 192GB of RDIMM 1333MHz DDR3 memory** (or up to **12 DIMMs / 48GB of UDIMM memory**) and provides **Chipkill™ ECC** (Error Checking and Correcting) protection—for high performance and reliability. For even higher levels of availability, the x3650 M3 also offers **memory mirroring**. Up to **4 integrated high-speed Gigabit Ethernet controllers** are available (offering **TOE** (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*** (**2.5-inch hot-swap Serial-Attached SCSI (SAS) or Serial-Attached ATA (SATA) drives**). Alternatively, up to **16 solid-state drives (SSDs)** 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 SSDs** and **one** internal tape drive or removable disk cartridge drive can be used. The server includes a choice of several **IBM ServeRAID® storage controllers** that provide broad levels of hardware-based **RAID solutions**. The ultra-dense **2U form factor** allows businesses to increase their computing power and spread their workload without outgrowing their current data center. Up to **21** of these **2U servers** can be installed in a single **42U rack**, for a total of up to **42 processors and 252 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 **Bosch BMP085 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-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 Vectors Cooling™**, **IPMI 2.0 support**, including highly secure remote power control and Serial-over LAN, as well as text-console redirect over LAN.

* Available 2Q/2011.

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A horizontal light blue bar with a rounded right end, followed by a red semi-circular glow effect.

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xREF: System x Reference David Watts,Ilya Krutov,IBM Redbooks,2015-05-18 Lenovo System x and BladeCenter servers and Lenovo Flex System™ compute nodes help to deliver a dynamic infrastructure that provides leadership quality and service that you can trust This document simply known as xREF is a quick reference guide to the specifications of the currently available models of each System x and BladeCenter server Each page can be used in a stand alone format and provides a dense and comprehensive summary of the features of that particular server model Links to the related Product Guide are also provided for more information An easy to remember link you can use to share this guide <http://lenovopress.com/xref> Also available is xREF for Products Withdrawn Prior to 2012 a document that contains xREF sheets of System x BladeCenter and xSeries servers and IntelliStation workstations that were withdrawn from marketing prior to 2012 Changes in the May 18 update Added the Flex System Carrier Grade Chassis See the Summary of changes in the document for a complete change history

IBM System Storage N series Reference Architecture for Virtualized Environments

Roland Tretau,Jacky Ben-Bassat,Craig Thompson,IBM Redbooks,2014-06-13 This IBM Redbooks publication provides deployment guidelines workload estimates and preferred practices for clients who want a proven IBM technology stack for virtualized VMware and Microsoft environments The result is a Reference Architecture for Virtualized Environments RAVE that uses VMware vSphere or Microsoft Hypervisor IBM System x or IBM BladeCenter server IBM System Networking and IBM System Storage N series with Clustered Data ONTAP as a storage foundation The reference architecture can be used as a foundation to create dynamic cloud solutions and make full use of underlying storage features and functions This book provides a blueprint that illustrates how clients can create a virtualized infrastructure and storage cloud to help address current and future data storage business requirements It explores the solutions that IBM offers to create a storage cloud solution addressing client needs This book also shows how the Reference Architecture for Virtualized Environments and the extensive experience of IBM in cloud computing services proven technologies and products support a Smart Storage Cloud solution that is designed for your storage optimization efforts This book is for anyone who wants to learn how to successfully deploy a virtualized environment It is also written for anyone who wants to understand how IBM addresses data storage and compute challenges with IBM System Storage N series solutions with IBM servers and networking solutions This book is suitable for IT architects business partners IBM clients storage solution integrators and IBM sales representatives

Implementing IBM Spectrum Virtualize software only Peter Mescher,John Sexton,Megan Gilge,IBM

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networking administrators install tailor and configure IBM Spectrum Virtualize software only It also provides a detailed description of supported hardware and troubleshooting tips In April 2017 this paper was updated to include information about Version 7 8 1 and Supermicro SYS 2028U TRTP server implementation [IBM Software Defined Environment](#) Dino Quintero,William M Genovese,KiWoon Kim,Ming Jun MJ Li,Fabio Martins,Ashish Nainwal,Dusan Smolej,Marcin Tabinowski,Ashu Tiwary,IBM Redbooks,2015-08-14 This IBM Redbooks publication introduces the IBM Software Defined Environment SDE solution which helps to optimize the entire computing infrastructure compute storage and network resources so that it can adapt to the type of work required In today s environment resources are assigned manually to workloads but that happens automatically in a SDE In an SDE workloads are dynamically assigned to IT resources based on application characteristics best available resources and service level policies so that they deliver continuous dynamic optimization and reconfiguration to address infrastructure issues Underlying all of this are policy based compliance checks and updates in a centrally managed environment Readers get a broad introduction to the new architecture Think integration automation and optimization Those are enablers of cloud delivery and analytics SDE can accelerate business success by matching workloads and resources so that you have a responsive adaptive environment With the IBM Software Defined Environment infrastructure is fully programmable to rapidly deploy workloads on optimal resources and to instantly respond to changing business demands This information is intended for IBM sales representatives IBM software architects IBM Systems Technology Group brand specialists distributors resellers and anyone who is developing or implementing SDE

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