

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 commercial 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 16TB¹ (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 500GB 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 **ServiceGuard®** storage controllers that provide broad levels of high-availability **RAP 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 **ultra-wide drives**, **hot-swap/redundant SAS or SATA HDDs**, redundant ultra-efficient power supplies and fan modules, **Active Memory**, integrated **RAP**, temperature-controlled fans, with **Controlled Ventilated Cooling™**, **IPMI 2.0** support, including **highly secure remote power control** and **Serial over LAN**, as well as **high-secure network over LAN**.

¹ Available 3Q/2011.

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IBM System Storage N series Software Guide Roland Tretau,Christian Fey,Michael Klimes,Steven Pemberton,Tom Provost,Danny Yang,IBM Redbooks,2014-07-31 Corporate workgroups distributed enterprises and small to medium sized companies are increasingly seeking to network and consolidate storage to improve availability share information reduce costs and protect and secure information These organizations require enterprise class solutions capable of addressing immediate storage needs cost effectively while providing an upgrade path for future requirements IBM System Storage N series storage systems and their software capabilities are designed to meet these requirements IBM System Storage N series storage systems offer an excellent solution for a broad range of deployment scenarios IBM System Storage N series storage systems function as a multiprotocol storage device that is designed to allow you to simultaneously serve both file and block level data across a single network These activities are demanding procedures that for some solutions require multiple separately managed systems The flexibility of IBM System Storage N series storage systems however allows them to address the storage needs of a wide range of organizations including distributed enterprises and data centers for midrange enterprises IBM System Storage N series storage systems also support sites with computer and data intensive enterprise applications such as database data warehousing workgroup collaboration and messaging This IBM Redbooks publication explains the software features of the IBM System Storage N series storage systems This book also covers topics such as installation setup and administration of those software features from the IBM System Storage N series storage systems and clients and provides example scenarios

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application When ISV zPDT is installed on Linux normal IBM zSystems operating systems such as IBM z OS may be run on it ISV zPDT provides the basic IBM zSystems architecture and provides emulated IBM 3390 disk drives 3270 interfaces Open Systems Adapter OSA interfaces and other items The systems that are described in this publication are complex with elements of Linux for the underlying PC machine IBM z Architecture for the core zPDT elements IBM zSystems I O functions for emulated I O devices z OS the most common IBM zSystems operating system and various applications and subsystems under z OS We assume that the reader is familiar with general concepts and terminology of IBM zSystems hardware and software elements and with basic PC Linux characteristics This publication provides the primary documentation for ISV zPDT and corresponds to zPDT V1 R11 commonly known as GA11

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

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publication helps storage and 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 *EWeek* ,2000-11

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