

Leadership enterprise server with significantly lower cost of ownership in a highly available and expandable, rack-dense, 1U dual-socket server

IBM



Product Guide

December 2009

IBM System x3550 M2

Product Overview

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Outstanding innovation in only 1U

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 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 resiliency that comes from no 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 X-Architecture servers. It is a game-changing, completely redesigned rack server using significantly less power with unified systems management tools, leadership reliability, availability, serviceability features and broad systems flexibility housed in a compact 1U mechanical package.

The x3550 M2 features Intel® Xeon® 5500 Series 4-core and 2-core processors and either **8MB** or **4MB** of shared cache, to help provide you with the computing power you need to match your business needs and growth. This new line of Intel processors delivers unprecedented intelligent performance with features like adaptive performance for applications and environments, turbo boost and hyper-threading technology, and integrated power gates and automated power management.

The x3550M2 uses up to **16 DIMMs** with **128GB** of registered **1333MHz DDR3** memory with **Chipkill® ECC** (Error Checking and Correcting) protection—for high performance and reliability. For even higher levels of availability, the x3550M2 also offers online memory mirroring. Up to **4** integrated high-speed **Gigabit Ethernet** controllers with **TOE** (TCP Offload Engine) and **Jumbo Frame** support are available, as are two high-performance adapter slots (**PCIe x16**). The x3550M2 offers an optional **embedded hypervisor** to manage your virtual workloads.

The x3550 M2 offers a choice of up to six high-performance hot-swap hard disk drives with an internal storage capacity of **3.0TB** (six **2.5-inch hot-swap Serial-Attached SCSI (SAS)** or **SATA** HDDs). Optional solid-state drives are also available to keep power low and improve resiliency and offer up to **300GB** of storage. The server supports a choice of four IBM ServeRAID® storage controllers which provide broad levels of hardware-based **RAID** solutions. The ultradense 1U form factor allows businesses to increase their computing power and spread 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 **336** processor cores, offering tremendous deployment flexibility. Optional Advanced Connectivity Technology (ACT) interconnect cabling reduces cable clutter and cost and minimizes 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 IMM, the x3550 M2 comes with an **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 **simple-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 Vectored Cooling**®, **IPMI 2.0** support, including highly secure remote power control and Serial over LAN, as well as text-console redirect over LAN.

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**Larry Coyne,Derek Erdmann,Joe
Hew,Sosuke Matsui,Alberto Barajas
Ortiz,Aderson Pacini,Michael
Scott,Chen Zhu,IBM Redbooks**

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IBM Extended Service/2 IBM.,1991 **IBM E-server XSeries 445 Planning and Installation Guide** David Watts,2003-01-01 [IBM E-server XSeries 440 Planning and Installation Guide](#) IBM Redbooks,David Watts,2002 **SAN Boot Implementation and Best Practices Guide for IBM System Storage** Sangam Racherla,Delmar Demarchi,Scott Dybas,Bobby Stark,Mansoor Syed,IBM Redbooks,2012-09-30 Booting servers from a storage area network SAN is being used increasingly in complex data center environments today due to its significant benefits over the traditional method of booting from local disks SAN Boot enables organizations to maximize consolidation of their IT resources minimize their equipment costs and realize the considerable management benefits of centralizing the boot process In SAN Boot you can deploy diskless servers in an environment where the boot disk is located on often RAID capable storage connected to the SAN The server initiator communicates with the storage device target through the SAN using the Fibre Channel host bus adapter HBA The system downtime is greatly minimized in case a critical component such as a processor memory or host bus adapter fails and needs to be replaced The system administrator needs to swap only the hardware and reconfigure the HBA s BIOS switch zoning and host port definitions on the storage server The system image still exists on the logical drive therefore the server is fully operational after the hardware swap and configuration change is completed This IBM Redbooks publication can help you with the SAN Boot implementation We present various SAN Boot scenarios using IBM System Storage products that include DS5000 DS8000 XIV and SVC The operating systems that are covered include Windows 2008 Red Hat Linux SUSE Linux and VMware **A Guide to the IBM System 370 Model 155** Ibm,1970 **IBM Eserver XSeries 455 Planning and Installation Guide** David Watts,Aubrey Applewhaite,Yonni Meza,2004 [Installation Guide](#) International Business Machines Corporation,1986 **IBM Power Systems for SAS Viya 3.5 Deployment Guide** Dino Quintero,Adriano Almeida,Taragopal Chattopadhyay,Christopher Chung,Beth L. Hoffman,Pradyothan Jeedula,Sandy Kao,Reinaldo Tetsuo Katahira,Kurt Koehle,Abhijit Mane,Antonio Moreira de Oliveira Neto,Harry Seifert,Travis Siegfried,IBM Redbooks,2021-04-22 This IBM Redbooks publication provides options and best practices for deploying SAS Viya 3 5 on IBM POWER9™ servers SAS Viya is a complex set of artificial intelligence AI and analytics solutions that require a properly planned infrastructure to meet the needs of the data scientists business analysts and application developers who use Viya capabilities in their daily work activities Regardless of the user role the underlying infrastructure matters to ensure performance expectations and service level agreement SLA requirements are met or exceeded Although the general planning process is similar for deploying SAS Viya on any platform key IBM POWER9 differentiators must be considered to ensure that an optimized infrastructure deployment is achieved This guide provides useful information that is needed during the planning sizing ordering installing configuring and tuning phases of your SAS Viya deployment on POWER9 processor based servers This book addresses topics for IT architects IT specialists developers sellers and anyone who wants to implement SAS Viya 3

5 on IBM POWER9 servers Moreover this publication provides documentation to transfer the how to skills to the technical teams and solution guidance to the sales team This book compliments the documentation that is available in IBM Knowledge Center and aligns with the educational materials that are provided by the IBM Systems Software Education SSE *IBM 3708 Installation Guide* International Business Machines Corporation. International Technical Support Center,1985 **IBM InfoSphere Information Server Installation and Configuration Guide** Patrick (Danny) Owen,2011 **IBM Eserver XSeries 450 Planning and Installation Guide** David Watts,IBM Redbooks,2003-01-01 **IBM TS7700 Release 4.2 Guide** Larry Coyne,Derek Erdmann,Joe Hew,Sosuke Matsui,Alberto Barajas Ortiz,Aderson Pacini,Michael Scott,Chen Zhu,IBM Redbooks,2019-04-19 This IBM Redbooks publication covers IBM TS7700 R4 2 The IBM TS7700 is part of a family of IBM Enterprise tape products This book is intended for system architects and storage administrators who want to integrate their storage systems for optimal operation Building on over 20 years of virtual tape experience the TS7760 now supports the ability to store virtual tape volumes in an object store The TS7700 has supported off loading to physical tape for over two decades Off loading to physical tape behind a TS7700 is utilized by hundreds of organizations around the world Using the same hierarchical storage techniques the TS7700 can also off load to object storage Given object storage is cloud based and accessible from different regions the TS7760 Cloud Storage Tier support essentially allows the cloud to be an extension of the grid As of the release of this document the TS7760C supports the ability to off load to IBM Cloud Object Storage as well as Amazon S3 To learn about the TS7760 cloud storage tier function planning implementation best practices and support see IBM Redpaper IBM TS7760 R4 2 Cloud Storage Tier Guide redp 5514 at <http://www.redbooks.ibm.com/abstracts/redp5514.html> The IBM TS7700 offers a modular scalable and high performance architecture for mainframe tape virtualization for the IBM Z environment It is a fully integrated tiered storage hierarchy of disk and tape This storage hierarchy is managed by robust storage management microcode with extensive self management capability It includes the following advanced functions Improved reliability and resiliency Reduction in the time that is needed for the backup and restore process Reduction of services downtime that is caused by physical tape drive and library outages Reduction in cost time and complexity by moving primary workloads to virtual tape More efficient procedures for managing daily backup and restore processing Infrastructure simplification through reduction of the number of physical tape libraries drives and media TS7700 delivers the following new capabilities TS7760C supports the ability to off load to IBM Cloud Object Storage as well as Amazon S3 8 way Grid Cloud consisting of any generation of TS7700 Synchronous and asynchronous replication Tight integration with IBM Z and DFSMS policy management Optional Transparent Cloud Tiering Optional integration with physical tape Cumulative 16Gb FICON throughput up to 4 8GB s 8 IBM Z hosts view up to 496 8 equivalent devices Grid access to all data independent of where it exists The TS7760T writes data by policy to physical tape through attachment to high capacity high performance IBM TS1150 and IBM TS1140 tape drives installed in an IBM TS4500 or TS3500 tape library

The TS7760 models are based on high performance and redundant IBM POWER8 technology They provide improved performance for most IBM Z tape workloads when compared to the previous generations of IBM TS7700

IBM InfoSphere Information Server Installation and Configuration Guide Patrick (Danny) Owen,IBM Redbooks,2013-01-14 This IBM Redpaper™ publication provides suggestions hints and tips directions installation steps checklists of prerequisites and configuration information collected from several IBM InfoSphere Information Server experts It is intended to minimize the time required to successfully install and configure InfoSphere Information Server The information in this document is based on field experiences of experts who have implemented InfoSphere Information Server As such it is intended to supplement and not replace the product documentation Discover the proven choices and combinations for installing InfoSphere Information Server that have been the most successful for the IBM InfoSphere Center Of Excellence This paper includes a broad range of customer needs and experiences with a focus on the following areas InfoSphere Information Server architecture Checklists Prerequisites Configuration choices that work well together This paper is based on thousands of hours of production systems experience from which you can now reap significant benefits

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web the plots deal with four main characters known formally as reed richards susan storm ben grimm and johnny storm and how they adapt to the superpowers they attain constantin film bought the film rights for the characters in 1986 a low budget film was produced in 1992 by new horizon studios owned by roger corman

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