

# THE LENOVO® THINKSERVER™ TS100

DESIGNED FOR GROWING IDEAS.



## ULTIMATE PERFORMANCE

- Intel® Core™2 Duo processors and Xeon® processors 3000 sequence
- Intel® 3210 Chipset
- 8GB of maximum memory
- 400Wx1 power supply, or redundant power supply (435x2)



## ULTIMATE RELIABILITY

- 4 slots of 1/2GB DDR2 800MHz ECC SDRAM uDIMM
- Integrated Broadcom 5722GB Ethernet
- Onboard ATI ES1000 (RN50) graphics with 16MB SDRAM
- LED Diagnostics, fans and memory
- 5 high-performance PCI expansion slots



## ULTIMATE CUSTOMIZATION

- Industry-leading software solutions available from Lenovo and Lenovo Business Partners:
  - Microsoft® Windows Server® 2003 Standard Edition Reseller Option Kit
  - Microsoft® Windows Server® 2003 Enterprise Edition Reseller Option Kit
  - Microsoft® Windows Server® 2008 Standard Edition with Hyper-V™ Reseller Option Kit
  - Microsoft® Windows Server® 2008 Enterprise Edition with Hyper-V™ Reseller Option Kit
  - Microsoft® Windows® Small Business Server 2003 R2 Standard Edition Reseller Option Kit
  - Microsoft® Windows® Small Business Server 2003 R2 Premium Edition Reseller Option Kit
- Novell® SUSE® Linux Enterprise Server (Novell® is Lenovo's Preferred Linux Provider for ThinkServer)
- Hardware customization through ThinkServer and ThinkServer Ready options



## ULTIMATE SETUP AND MANAGEMENT

- ThinkServer EasyStartup server setup and configuration utility
- ThinkServer EasyUpdate for Lenovo hardware drivers and firmware
- ThinkServer EasyManage server management for hardware monitoring, alerting, administration, and more
- PC-Doctor Diagnostics
- IPMI 2.0 support



## ULTIMATE SERVICES

- ThinkPlus™ Productivity gets your server up and running fast
- ThinkPlus™ Priority Support offers expert IT support for your ThinkServer when you need it
- An included 90-day trial of the Priority package supports you during your first critical three months of ownership



**lenovo**®

# THE LENOVO THINKSERVER™ TS100

ENGINEERED TO SCALE UP WITH YOUR GROWING BUSINESS NEEDS.

Meet the new ThinkServer TS100, where first-class hardware is combined with software tools and services designed to deliver the best possible server experience for the small business owner. This single-processor tower server is an entry system for the very small business. Uptime is of known importance and scalability is no problem. In addition, it's complemented by services that offer the highest level of IT support. The customizable TS100 combines reliable hardware, ease of use and hassle-free support to give small businesses the ultimate amount of flexibility. The ThinkServer line ensures that data is kept secure with available disaster recovery offerings that improve upkeep across a small business, making it easy to centralize IT infrastructure. It's even easier to enjoy the low cost without sacrificing performance, storage or flexibility.

Coupled with reliable hardware, the new ThinkServer TS100 comes equipped with a suite of easy-to-use software, services and toolsets to make the setup, updating and management of your server painless and perfect. Just what you need to upgrade from a desktop computer and power your file/print, e-mail and Web priorities – along with your ideas.



## ROCK-SOLID HARDWARE

Proven technology powers ThinkServer systems, along with Intel® chipsets and processors. Lenovo's design and engineering traits also are synonymous with the successful Think® brand, affording you the peace-of-mind to focus on growing your business.



## THOUGHTFUL MANAGEMENT

ThinkPlus™ Services are developed with the small business and the local business partner in mind. Simple solution packages get you productive fast and provide the priority service you depend on, including ThinkPlus™ Productivity and ThinkPlus™ Priority Support, plus a wide range of other modular SMB services. Third-party software fills in where and when it's needed, including Lenovo Integrated Software Solutions from LANDesk®, Operating Systems from Microsoft® and Novell® are offered, and additional solutions from VMWare® and Red Hat® are certified to run on Lenovo ThinkServer hardware.



## VAST SUPPORT

The Lenovo Partner Network helps your dedicated Business Partner easily lead you through every step of the customization and management of your new hardware.

# THINKSERVER™ TS100 SPECIFICATIONS AND SERVICES

## THINKSERVER TS100

<b>Warranty</b> 1/1	<b>Warranty</b> 3/3
<b>Form Factor</b> Tower	<b>Form Factor</b> Tower
<b>Core Chipset</b> Intel® 3210	<b>Core Chipset</b> Intel® 3210
<b>Processor</b> Single E7200 Series (E7200/E7200)/E3100 Series (E3110)	<b>Processor</b> Single E3100 Series (E3110)/X3300 Series (X3330/X3360)
<b>Machine Type-Model</b> 6432-17x/6432-18x/6432-19x	<b>Machine Type-Model</b> 6434-13x/6434-14x/6434-15x
<b>Speed &amp; Capacity</b> 2.53GHz Clock Speed/2.53GHz/3.00GHz 1066MHz Front Side Bus/1066MHz/1333MHz 3MB L2 Cache/3MB/6MB	<b>Speed &amp; Capacity</b> 3.00GHz Clock Speed/2.66GHz/2.83GHz 1333MHz Front Side Bus 6MB L2 Cache/6MB/12MB
<b>Memory</b> 800MHz ECC DDR2 SDRAM uDIMM 8GB Maximum Memory	<b>Memory</b> 800MHz ECC DDR2 SDRAM uDIMM 8GB Maximum Memory
<b>Storage</b> Built-in LSI Logic 1064 (RAID 0,1) or LSI MR10i (RAID 0,1,5,6,10)* Up to 4x3.5" SATA HDD SS HDD Backplane DVD-ROM	<b>Storage</b> Built-in LSI Logic 1064 (RAID 0,1) or LSI MR10i (RAID 0,1,5,6,10)* Up to 4x3.5" SATA HDD/Up to 4x3.5" Hot-Swap (SAS or SATA)/Up to 4x3.5" Hot-Swap (SAS or SATA) SS HDD Backplane/HS HDD Backplane/HS HDD Backplane DVD-ROM
<b>Connectivity</b> Gigabit Ethernet (Integrated)	<b>Connectivity</b> Gigabit Ethernet (Integrated)
<b>Diagnostics</b> LED	<b>Diagnostics</b> LED
<b>Power Supply</b> 400Wx1 Power Supply	<b>Power Supply</b> Redundant Power Supply (435Wx2)

\*Optional

### A-La-Carte ThinkPlus™ Services

**Online Data Backup**  
A secure, online location to backup your valuable business data

**Onsite Hardware Installation**  
Onsite installation of your hardware by a trained technician

**Online Training**  
Learn the basics on components, diagnostics, troubleshooting and managing your server

## EXCEPTIONAL SUPPORT WITH THINKPLUS™ SERVICE BUNDLES

ThinkPlus™ Warranty Base Warranty Support	ThinkPlus™ Priority Support 90-Day Trial Included (With HW Product Purchase)	ThinkPlus™ Productivity No-Hassle Up & Running Bundle
<ul style="list-style-type: none"> <li>Warranty Upgrade</li> <li>Warranty Extension</li> </ul>	<ul style="list-style-type: none"> <li>24x7 HW &amp; SW Phone Support</li> <li>Next-Business Day (9x5) Onsite Service</li> <li>Priority Routing</li> <li>Advanced Level Technicians</li> <li>SW Installation &amp; Usage Support (Phone-Based)</li> <li>Optional 4-Hour (24x7) Onsite Service Response</li> <li>Optional Hard Disk Drive Retention</li> </ul>	<ul style="list-style-type: none"> <li>Onsite HW Installation</li> <li>Online Training</li> <li>Priority Support</li> </ul>

# THINKSERVER™ TS100 ACCESSORIES AND OPTIONS



Memory	
45J6188	ThinkServer 1GB PC2-6400 (800MHz) ECC DDR2 SDRAM Memory
45J6189	ThinkServer 2GB PC2-6400 (800MHz) ECC DDR2 SDRAM Memory
Hard Disk Drives	
45J6195	ThinkServer 160GB 3.5" Simple-Swap SATA II Drive
45J6196	ThinkServer 250GB 3.5" Simple-Swap SATA II Drive
45J6197	ThinkServer 500GB 3.5" Simple-Swap SATA II Drive
45J6198	ThinkServer 750GB 3.5" Simple-Swap SATA II Drive
45J6200	ThinkServer 160GB 3.5" Hot-Swap SATA II Drive
45J6201	ThinkServer 250GB 3.5" Hot-Swap SATA II Drive
45J6202	ThinkServer 500GB 3.5" Hot-Swap SATA II Drive
45J6203	ThinkServer 750GB 3.5" Hot-Swap SATA II Drive
45J6204	ThinkServer 1TB 3.5" Hot-Swap SATA II Drive
45J6211	ThinkServer 14GB 15K 3.5" Hot-Swap SAS Drive
45J6212	ThinkServer 300GB 15K 3.5" Hot-Swap SAS Drive
Keyboard/Mice	
31P9490	ThinkPad Travel UltraNav® USB Keyboard - U.S. English
73P5220	Lenovo Preferred Pro USB Keyboard - U.S. English
06P4069	Lenovo Optical Mouse
Monitors	
9165AC6	Lenovo 15 TFT LCD/ThinkVision® L151 15" Analog LCD
9227AD1	Lenovo T117 17 TFT LCD/ThinkVision L171 17" Analog LCD
4431HB2	Lenovo 19 TFT LCD/ThinkVision L193p 19" Digital/Analog LCD
Diskette Drive	
05K9276	USB Portable Diskette Drive
ThinkServer Ready I/O Options	
39Y6146	QLogic iSCSI Single-Port PCIe HBA
42C1770	QLogic iSCSI Dual-Port PCIe HBA
42C2069	Emulex 4GB FC Single-Port PCI-E HBA
42C2071	Emulex 4GB FC Dual-Port PCI-E HBA
39R6525	QLogic 4Gb FC Single-Port PCIe HBA
39R6527	QLogic 4Gb FC Dual-Port PCIe HBA
39Y6126	PRO/1000 PT Dual-Port Server Adapter by Intel®
39Y6136	PRO/1000 PT Quad-Port Server Adapter by Intel®
ThinkServer Ready Tape Options	
42D8771	IBM® GoVault Drive without Cartridge/Internal Dock
39M5617	IBM GoVault 80GB Cartridge
42D8776	IBM GoVault 120GB Cartridge
39M5636	IBM DDS Generation 6 USB Tape Drive
44E8895	IBM Half-High LTO Generation 4 SAS Tape Drive
ThinkServer Ready Controller/RAID Options	
43W4296	IBM ServeRAID-MR10i SAS/SATA Controller
43W4299	IBM ServeRAID-MR10i Battery
44E8825	IBM ServeRAID-MR10M SAS/SATA Controller w/remote
25R8060	IBM SAS HBA Controller
ThinkServer Ready Racks & Rack Accessory Options	
17353LX	IBM 1x8 Console Switch
17354GX	IBM 4x16 Global Console Manager
17237RX	Monitor Shelf
17235RX	Keyboard Tray
42C8923	5Ux20D Tower to Rack Conversion Kit

[www.lenovo.com/thinkserver](http://www.lenovo.com/thinkserver)



©2008 Lenovo. Produced in the USA, 08-08. All rights reserved.

Availability: All offers subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time without notice. Lenovo is not responsible for photographic or typographic errors.

Warranty information: For a copy of applicable product warranties, write to: Warranty Information, P.O. Box 12195, RTP, NC 27709, Attn: Dept. ZPYA/B676. Lenovo makes no representation or warranty regarding third-party products or services.

Footnotes: [1] Limited Warranty: Support unrelated to a warranty issue may be subject to additional charges. [2] Hard Disk Drive: GB = billion bytes. TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition. [3] Included Software: May differ from its retail version (if available) and may not include user manuals or all program functionality. License agreements may apply. [4] DVD-ROM Drives: List maximum rates; rates are variable and are often less than the maximum. [5] Memory: Maximum memory varies depending on model and may require replacement of standard memory with optional maximum memory module. [6] Internet Access: Requires an account, available separately. [7] Data Transfer Rates: Vary and are often less than the maximum possible. [8] Pricing: Does not include tax, shipping and handling, or any recycling fees and are subject to change without notice. Starting price may not include a hard disk drive, operating system, or other features. [9] Copyright And License Terms: All users are responsible for complying with such terms for the software contained in their image. Multiple Microsoft operating systems may require multiple licensing fees. Although more than one language may be available in the image, the customer may use only one language per system. [10] ThinkServer Ready Options: Have part numbers associated with IBM® xSeries ServerProven® options.

Trademarks: ThinkPlus, ThinkServer, TopSeller and UltraNav are trademarks or registered trademarks of Lenovo Group Ltd. Lenovo, the Lenovo logo, Think, ThinkCentre and ThinkPad are registered trademarks of Lenovo Group Ltd. IBM and ServerProven are registered trademarks of IBM Corporation and are used under license. Intel, the Intel logo, Xeon and Xeon Inside are trademarks or registered trademarks of Intel Corporation in the U.S. and other countries. Hyper-V is a trademark of Microsoft Corporation. Microsoft, Windows and Windows Server are registered trademarks of Microsoft Corporation. Novell and SUSE are registered trademarks of Novell Incorporated. Red Hat is a registered trademark of Red Hat Incorporated. LANDesk is a registered trademark of Avocent Corporation. VMware is a registered trademark of VMware Incorporated. Other company, product and service names may be trademarks or service marks of others. Information is subject to change without notice. Information about non-Lenovo products is obtained from the manufacturers of those products or their published announcements. Questions on the capabilities of non-Lenovo products should be addressed to the suppliers of those products. Consult your local Lenovo representative or business partner for information on offerings available in your area. ThinkServer Ready Options are not Lenovo products and cannot be purchased from Lenovo. They can only be purchased direct from IBM or from IBM resellers. Contact IBM or your IBM reseller for details.

Visit [lenovo.com/safecomputing](http://lenovo.com/safecomputing) periodically for the latest information on safe and effective computing.

TSDT5100-0908-WWEN-01