



DELIVERS, NO MATTER WHAT.

THE LENOVO® THINKSERVER® TS200 COMES WITH MORE THINKING TO DELIVER ENTERPRISE-CLASS FEATURES AT AN AFFORDABLE PRICE FOR GROWING BUSINESSES.

The Lenovo ThinkServer TS200 is an affordable single processor tower server that is ideally suited for a small business or a corporate branch office. This exceptionally engineered server provides rock-solid hardware, easy-to-use software and exceptional services that are perfect for the growing business with a limited IT staff. Best of all, the TS200 has more thinking built in to offer enterprise-class features and greener attributes that positively impact total cost of ownership.

The new TS200 is built on the latest Intel® Xeon® technology, featuring the X3400 series processor. Along with expandable memory and data storage, it offers RAID options that greatly enhance its performance and data integrity. Enhanced server management features like Integrated Management Module (IMM), Predictive Failure Analysis (PFA) and Easy LED Diagnostics ensure easy repair and maintenance, while preventing server outages. The TS200 is backed by a 90 day trial of ThinkPlus Priority Support in addition to a 1 - or 3 - year standard warranty.

The latest ThinkServer platform is now greener with >92% efficient power supplies. The Virtualization Ready TS200 offers energy-efficient power supplies and low-power processor and memory options. These attributes ensure reduced energy costs through reduced power consumption and efficient zoned cooling. Lenovo is a participant in the Climate Savers Program and all ThinkServers are RoHS compliant.

ENTERPRISE - CLASS OFFERINGS

- Intel® Xeon® X3400 and Core™ i3 processors
- Advanced ECC DDR3 memory — expandable up to 16GB uDIMM and 32GB rDIMM
- 2.5" and 3.5" SAS / SATA hard drive options
- Tape backup with dedicated tape USB port for RDX and DDS
- Integrated Dual Gigabit Ethernet
- Dedicated Gigabit Ethernet System Management
- 6 PCI slots — 2 PCIe x8, 1 PCIe x4, 2 PCI and a dedicated RAID PCIe x4
- RAID 0 / 1, 10 and 5, 6, 50, 60 via optional PCI-E cards

ECO-FRIENDLY GREEN SERVER

The green TS200 platform offers:

- >92% efficient power supplies
- Schedule Power ON / OFF
- Reduced energy consumption and efficient zoned cooling capability
- Low-wattage processor and memory options

THE LENOVO® THINKSERVER® TS200

**TOP
REASONS
TO OWN**

- ENTERPRISE-CLASS DEPENDABILITY
- ENHANCED REMOTE MANAGEMENT
- EASY-TO-SETUP, MANAGE AND MAINTAIN
- OUTSTANDING PERFORMANCE



ENHANCED USER EXPERIENCE

- **EasyStartup:**
Provides easy setup with built-in RAID configuration, automated OS installation and cloning
- **Built-in IMM:**
Always On Management provides anytime, anywhere access to your servers through a web-based interface
- **IMM Premium:**
Provides enhanced remote presence from anywhere through remote KVM and virtual media
- **Embedded Hypervisor:**
Provides easy Virtualization support with VMWare® Hypervisor support

DEPENDABILITY

Enhanced manageability ensures that your servers run smoothly with the following features:

- Predictive Failure Analysis — alerts you before a problem occurs
- Easy LED diagnostics on the motherboard — allows quick diagnosis
- Hot-swap components and tool-less assembly — allows quick maintenance
- IMM — allows advanced remote management, maintenance and repair from anywhere

EXCEPTIONAL SERVICE

The TS200 is offered with a 90-day trial of ThinkPlus™ Priority Support in addition to a 1 - or 3 - year standard warranty. The Business Partner leverages the capabilities of Lenovo for the best possible service experience the most crucial time of ownership.

THINKPLUS® SERVICE OFFERINGS

VALUE-ADDED SERVICES

- ThinkPlus Productivity Package with Hardware Installation and Training
- Lenovo Online Backup for server (25, 50 and 100 GB)
- Server Installation Service
- Online Training — managing and servicing ThinkServer
- Lenovo Professional Services — migration, security, continuity, virtualization and system management

BASE WARRANTY

- 1 year on-site
- 3 year on-site

UPGRADE SERVICE LEVEL

- 4 hour on-site service response
 - » 3 / 5 year on-site 9 x 5 – 4 hour
- ThinkPlus Priority Support
 - » 3 year ThinkPlus Productivity (Priority + Online Training + Installation)
 - » 3 / 5 year ThinkPlus Priority
 - » 3 / 5 year ThinkPlus Priority 4 (24 x 7 - 4 hour response)
 - » 3 / 5 year ThinkPlus Priority with Hard Disk Drive Retention
 - » 3 / 5 year ThinkPlus Priority 4 (24 x 7 - 4 hour response) with Hard Disk Drive Retention

WARRANTY EXTENSIONS

- 3 / 5 year on-site 9 x 5 NBD (if purchased during warranty)

** Availability of services offerings may vary by country.

THE LENOVO® THINKSERVER® TS200 SPECIFICATIONS

DESCRIPTION	TS200	
Chipset	<ul style="list-style-type: none"> Intel® Ixex Peak 	
Processor	<ul style="list-style-type: none"> Intel® dual and quad core processors <ul style="list-style-type: none"> » Intel® X3400 (quad core) » Core™ i3 (dual core) 	
Operating Systems	<ul style="list-style-type: none"> Microsoft® Windows Server® 2008 Standard R2 edition Microsoft® Windows Server® 2008 Enterprise R2 edition Microsoft® Windows Server® 2008 SBS Standard Microsoft® Windows® Foundations R2 	<ul style="list-style-type: none"> Novell® SUSE® Linux® Enterprise Server (SLES) 11 with Xen® hypervisor Red Hat® Enterprise Linux® 5.3 VMware® ESX Server 4.0 & 4.0i
Memory	<ul style="list-style-type: none"> 1 GB, 2 GB, 4 GB DDR3 Registered DIMMs — 6 slots 1 GB, 2 GB DDR3 Unregistered DIMMs — 4 slots 	
I / O Slots	<ul style="list-style-type: none"> 2 x 8 PCI-E Gen2 1 x 4 PCI-E (non-dedicated) for RAID 0, 1 	<ul style="list-style-type: none"> 1 x 4 PCI-E 2 PCI 5V
Ethernet	<ul style="list-style-type: none"> Integrated Dual Gigabit Ethernet (2 port) Gigabit Ethernet System Management Port 	
Storage Bays	<ul style="list-style-type: none"> 4 x 3.5" HS SAS / SATA or 4 x 3.5" SS SATA 8 x 2.5" HS SAS or 8 x 2.5" SATA* 	<ul style="list-style-type: none"> 2 x 5.25" bays [(1) Optical, (2) Optical or Tape]
Tape Backup	<ul style="list-style-type: none"> Dedicated USB port for ThinkServer RDX and ThinkServer DDS Tape Backup Units 	
Raid	<ul style="list-style-type: none"> RAID 0, 1 RAID 0, 1, 5 	<ul style="list-style-type: none"> RAID 0, 1, 10, 5, 50 RAID 6, 60
Optical Drives	<ul style="list-style-type: none"> DVD-ROM DVD-RW 	
I / O Ports	<ul style="list-style-type: none"> 7 USB (2 front, 4 back, 1 internal) Internal USB Core™ i3 for embedded VMware® hypervisor 	<ul style="list-style-type: none"> 1xSerial (rear) 1xVGA (rear)
Management	<ul style="list-style-type: none"> IMM with IPMI 2.0 (dedicated LAN Port) HW key for remote presence 	<ul style="list-style-type: none"> TPM 1.2
Power	<ul style="list-style-type: none"> 401 W fixed 430 W redundant in select models 	
Green Server	<ul style="list-style-type: none"> >92% efficient power supplies RoHS (lead free) 	
Mechanical	<ul style="list-style-type: none"> Width: 216 mm (8.5 in) Height: 438 mm (17.3 in) 	<ul style="list-style-type: none"> Depth: 540 mm (21.3 in) Weight: 25.20 kg (56 lbs) (maximum configuration)
Electrical Power	<ul style="list-style-type: none"> Low range: 100 V ac min / 127 V ac max High range: 200 V ac min / 240 V ac max 	<ul style="list-style-type: none"> Input frequency range: 50/60 Hz Auto-sensing voltage switch
Temperature	<ul style="list-style-type: none"> System on: 10 - 35 C System off: 10 - 43 C 	
Noise level	<ul style="list-style-type: none"> Idle (Non-Redundant PSU): 4.5 bels Idle (Redundant PSU): 5.0 bels 	<ul style="list-style-type: none"> Operating: 5.3 bels
Relative humidity	<ul style="list-style-type: none"> System on: 10% to 80% System off: 10% to 90% 	

THE LENOVO® THINKSERVER® TS200 OPTIONS

Memory	DDR3 Registered DIMM – high performance and advanced ECC	
<ul style="list-style-type: none"> Faster performance Low-power consumption Advanced ECC Memory mirroring 	67Y0014	ThinkServer 1GB PC3 - 10600 DDR3 1333 MHz RDIMM
	67Y0124	ThinkServer 2GB PC3 - 10600 1Gbit DDR3 1333 MHz RDIMM
	67Y0125	ThinkServer 4GB PC3 - 8500 1Gbit DDR3 1066 MHz RDIMM
	DDR3 Unregistered DIMM – low latency and low cost	
	67Y0122	ThinkServer 1GB PC3 - 10600 DDR3 1333 MHz UDIMM
	67Y0123	ThinkServer 2GB PC3 - 10600 DDR3 1333 MHz UDIMM
Internal Storage	3.5 inch Hot-swap SAS – high performance and low-power consumption	
<ul style="list-style-type: none"> Slim Form Factor 2.5" 6.0 GB/s SAS Interface Low-power Consumption Performance (10K / 15K) Hot-swap 3.5" Tray Simple-swap 3.5" Tray 	45J6211	ThinkServer 146GB 15K 3.5" Hot-swap SAS Drive
	45J6212	ThinkServer 300GB 15K 3.5" Hot-swap SAS Drive
	67Y0119	ThinkServer 450GB 15K 3.5" Hot-swap SAS Drive
	3.5 inch Simple-swap and Hot-swap SATA II – reliable and high-capacity storage	
	45J6196	ThinkServer 250GB 3.5" Simple-swap SATA II Drive
	45J6197	ThinkServer 500GB 3.5" Simple-swap SATA II Drive
	67Y1380	ThinkServer 1TB 3.5" Simple-swap SATA II Drive
	45J6201	ThinkServer 250GB 3.5" Hot-swap SATA II Drive
	45J6202	ThinkServer 500GB 3.5" Hot-swap SATA II Drive
	45J6204	ThinkServer 1TB 3.5" Hot-swap SATA II Drive
ThinkServer Ready Options	Tape / Backup (External Attach)	
<ul style="list-style-type: none"> 3rd Party Options available through existing IBM distribution 	362516X*	IBM® RDX160 External Bundle
	362532X*	IBM® RDX320 External Bundle
	362550X*	IBM® RDX500 External Bundle
	Switches and Console Managers	
	31R3132*	IBM® 3M Console Switch Cables
	17353LX*	IBM® 1x8 Console Switch
	Uninterruptible Power Supplies	
	21301RX*	IBM® UPS 3000 LV - US
	21302RX*	IBM® UPS 3000 HV - International

ThinkServer IBM Options	Connectivity	
<ul style="list-style-type: none"> New ThinkServer Options available from Lenovo Lenovo Part Numbers 	67Y0172	ThinkServer IBM 8GB FC Single-port HBA by QLogic
	67Y0173	ThinkServer IBM 8GB FC Dual-port HBA by QLogic
	67Y0174	ThinkServer IBM 8GB FC Single-port HBA by Emulex
	67Y0175	ThinkServer IBM 8GB FC Dual-port HBA by Emulex
	67Y0176	ThinkServer IBM 8GB FC Single-port HBA by Brocade
	67Y0177	ThinkServer IBM 8GB FC Dual-port HBA by Brocade
	Tape and Backup	
67Y0135	ThinkServer IBM DDS Generation 6 USB Tape Drive	
67Y0138	ThinkServer IBM RDX160 Internal Bundle Tape Drive	
67Y0139	ThinkServer IBM RDX320 Internal Bundle Tape Drive	
67Y0140	ThinkServer IBM RDX500 Internal Bundle Tape Drive	
RAID Controllers		
67Y0183	ThinkServer IBM SAS Controller v2	
67Y0184	ThinkServer IBM ServeRAID M5015	
67Y0185	ThinkServer IBM ServeRAID M5014	
67Y0186	ThinkServer IBM ServeRAID M5000 Series Battery Kit	
System Components		
67Y0182	ThinkServer IBM Virtual Media Key – Entry Servers	

For more information on Lenovo ThinkServer Options, please refer to the Server Options Guide found at the link below.

* IBM Part Number

 www.lenovo.com/thinkserver/europe

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THERE'S MORE THINKING IN A **ThinkServer**