

THINKCENTRE M52 FAMILY

Stability and manageability for the enterprise



ThinkCentre M52 Desktop with optional ThinkVision® monitor

HIGHLIGHTS

Stable platforms available for up to 18 months after general availability for long-term deployments (select models).

Enabled for a common software image across all form factors to help simplify IT support¹ and save money.

Tool-less design makes upgrades and maintenance quick and easy, to help reduce IT support costs.

Configured for one of the most secure logon processes available² with ThinkVantage™ Client Security Solutions and the Preferred Pro USB Fingerprint Keyboard (select models).

Pick the form factor that fits. The ThinkCentre® M52 Small saves space. Or choose a traditional desktop or tower to meet your expansion needs.

Run your business, not your PCs.

Advanced ThinkCentre M52 models are designed to help maximize productivity while minimizing cost. Offered in a range of sizes—from Tower to Small designs—to suit a variety of business needs, ThinkCentre systems deliver high performance and long-term stability. All ThinkCentre models are equipped with Intel® Pentium® 4 Processors with HT Technology, Intel Pentium D Dual Core Processors or Intel Celeron® D Processors and include full-height PCI slots for easy expansion.

Deployment-friendly ThinkCentre M52 models can dramatically simplify IT management, helping reduce support costs over the entire ownership cycle. Select systems are available with stable platforms for up to 18 months after general availability. All models include ThinkVantage Technologies to help streamline rollouts, enhance security and make data recovery easy.

To help decrease expenses, look inside for ThinkVantage Technologies and Designs.

For important warranty information, see page 4.

THINKVANTAGE TECHNOLOGIES AND DESIGNS

Simplify PC rollouts and image

maintenance. Optional ThinkVantage ImageUltra™ Builder helps consolidate multiple languages, hardware platforms, workgroup applications and operating systems into a single, smart master image to simplify deployment and support.

Make commonplace migration tasks easy.

The downloadable ThinkVantage System Migration Assistant™ lets you transfer existing files, applications and settings quickly and easily from system to system.

Deploy the most secure desktops in the industry.

ThinkVantage Client Security Solution and the Preferred Pro USB Fingerprint Keyboard (select models) offer built-in encryption hardware and preloaded security software for maximum protection. No other manufacturer offers stronger PC security as a standard feature.

Get instant on-system and online³

information. The Blue button puts important information about features and tools where it's needed—at employees' fingertips.

Rest on strong foundations.

Durable steel chassis are designed to support the weight of even large CRT monitors.

Give your help desk a break.

Meet ThinkVantage Rescue and Recovery™ software. It's preloaded on ThinkCentre M Series desktops. With this enhanced, one-button solution, staff can restore system images themselves in the event of a software crash—often without a call to the help desk.

ThinkCentre recommends Microsoft® Windows® XP Professional for Business.



ThinkCentre M52 Tower with optional ThinkVision monitor

WARRANTY COVERAGE

ThinkCentre M52 systems come with a three-year limited warranty⁴. In addition, customers receive international warranty service coverage⁵ and optional service plans for greater protection.

AWARD-WINNING SERVICE AND SUPPORT

Offices in Oslo? Choose a ThinkCentre M Series desktop. With just a few clicks, you can enjoy a wealth of on-system and online³ resources—and receive award-winning service and support in more than 160 countries⁵ worldwide.

ENHANCE PERFORMANCE.

ThinkVision L171p flat panel monitor

9417HB7

Ultra slim bezel design with tilt, swivel and height adjustment. Pivot* allows viewing in landscape or portrait mode.



*Graphics card--dependent.

40Y7616



ThinkVision USB Soundbar

Add stereo sound to your ThinkVision L151, L151p, L171 or L171p monitor.

73P3370



Preferred Pro USB Fingerprint Keyboard

Put password security at your fingertips.

ThinkCentre M52 Family specifications:

	M52 Tower 8113	M52 Desktop 8212	M52 Small 8215
Processor	Intel® Pentium® D Processor or Intel Pentium 4 Processor with HT Technology or Intel Celeron® D Processor	Intel Pentium D Processor or Intel Pentium 4 Processor with HT Technology or Intel Celeron D Processor	Intel Pentium D Processor or Intel Pentium 4 Processor with HT Technology or Intel Celeron D Processor
Preloaded operating system⁶	Microsoft® Windows® XP Professional or Microsoft Windows XP Home	Microsoft Windows XP Professional or Microsoft Windows XP Home	Microsoft Windows XP Professional or Microsoft Windows XP Home
Video graphics (integrated)	Intel Graphics Media Accelerator 950, PCI Express 16-lane graphics slot (full height)*	Intel Graphics Media Accelerator 950, PCI Express 16-lane graphics slot (low profile)*	Intel Graphics Media Accelerator 950, PCI Express 1-lane slot to fit DVI-I Connection Adapter
Core chipset	Intel 945G Express	Intel 945G Express	Intel 945G Express
Memory⁷/max capacity⁸	DDR2 667MHz (PC2-5300) or DDR2 533MHz (PC2-4200)/4GB	DDR2 667MHz (PC2-5300) or DDR2 533MHz (PC2-4200)/4GB	DDR2 667MHz (PC2-5300) or DDR2 533MHz (PC2-4200)/4GB
Hard disk drive	40GB ⁹ , 80GB, 160GB, or 250GB (7200 rpm) Serial ATA	40GB ⁹ , 80GB, 160GB, or 250GB (7200 rpm) Serial ATA	40GB ⁹ , 80GB, 160GB, or 250GB (7200 rpm) Serial ATA
Optical drive (full-size)	CD-ROM, DVD-ROM, CD-RW, DVD/CD-RW Combo and Multi-Burner Plus	CD-ROM, DVD-ROM, CD-RW, DVD/CD-RW Combo and Multi-Burner Plus	CD-ROM, DVD-ROM, CD-RW, DVD/CD-RW Combo and Multi-Burner Plus
Audio (integrated)	SoundMax Cadenza (ADI 1981HD); line in, line out, microphone ports; internal Speaker (select models); external speakers (select models)		
Security features	Client Security Solution (standard) Preferred Pro USB Fingerprint Keyboard (select models)	Client Security Solution (standard) Preferred Pro USB Fingerprint Keyboard (select models)	Client Security Solution (standard) Preferred Pro USB Fingerprint Keyboard (select models)
Connectivity (integrated)	Intel PRO/1000	Intel PRO/1000	Intel PRO/1000
Expansion	4 slots x 4 bays	3 slots x 3 bays	2 slots x 3 bays
Dimensions	450x178x432mm (17.7x7.0x17.0")	385x350x108mm (15.2x13.8x4.2")	85x310x358mm (3.3x12.2x14.1")
Ports	8 USB 2.0 (2 front-access), 2 serial (M52 Small), 1 serial (M52 Desktop and M52 Tower), 1 parallel, PS/2® mouse/keyboard, VGA		
Keyboard	Preferred Pro PS/2 Full Size Keyboard, Preferred Pro USB Full Size Keyboard, Preferred Pro USB Fingerprint Keyboard, Enhanced Performance USB Keyboard, Enhanced Performance Wireless Keyboard and Mouse		
Mouse	Mouse (varies by model): USB Optical Wheel Mouse, PS/2 2-Button Mouse or PS/2 Mechanical Wheel Mouse		

Visit thinkcentre.com for more information and details by model.

*Select models may include these graphics adapter cards: 64MB NVIDIA GeForce 6200 with dual VGA, 128MB ATI RADEON X700 with VGA, DVI-I and TV output, or 128MB ATI RADEON X300 SE with dual VGA (available in full height or low profile version)

For important warranty information, see page 4.

ThinkCentre M52 Family software:

Preloaded operating systems¹⁰	Microsoft Windows XP Professional, Microsoft Windows XP Home	
Supported operating systems	Microsoft Windows XP Professional (SP1a, SP2), Microsoft Windows XP Home Edition (SP1a, SP2), Microsoft Windows 2000 Professional (SP3, SP4)	
Included software¹¹ (preloaded)	Adobe Reader Client Security Solutions Diskeeper Lite RecordNow and DLA powered by Sonic products (CD-RW/DVD and DVD-RW models) Rescue and Recovery™	InterVideo WinDVD (DVD or DVD/CD-RW models only) Symantec Client Security (with 90 days of virus definitions) PC-Doctor ThinkVantage Fingerprint Software (select models)
(downloadable)	IBM Director Agent Software Delivery Assistant	System Migration Assistant
(license—CD not included)	Lotus® SmartSuite® Millennium	Lotus Notes® stand-alone client
Certified operating systems	For a listing of completed Linux certifications, visit lenovo.com/think/linux	





**THE ONLY ACCESSORIES YOU'LL NEED.
ONLY IF YOU NEED PERFECT COMPATIBILITY,
METICULOUS DESIGN AND CONSTANT INNOVATION.**

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ThinkPlus™

DON'T JUST HOPE FOR ACCESSORY COMPATIBILITY. EXPECT EXCEPTIONAL ABILITY.

Sometimes a computer needs some fine tuning: a little boost in memory, more battery run time, or extra protection for traveling. That's when you start thinking about accessories and which brand to select.

Fortunately, we think about accessories all the time. You might say we're obsessed with them—with improving their function, enhancing user comfort and increasing safety. That takes a lot of thought and plenty of action. The result is a complete line of high-performance accessories tested for ultimate compatibility with your ThinkPad® and ThinkCentre® computers.



ThinkVision® Projector



A PERFECT FIT ISN'T AN OPTION.

A key requirement for all ThinkPad and ThinkCentre accessories is compatibility. They must perform in sync with the computers—in perfect harmony. That requires hours of testing in all kinds of conditions and work situations. They're also developed to be consistent, in both look and feel, with the systems they enhance.

A perfect fit is just one key detail that goes into making ThinkPlus™ accessories the right complement to your ThinkPad and ThinkCentre computers. What else does it take?

Industry-leading Design. From award-winning industrial designers.

Testing. Under scientific eyes and in users' hands.

Safety. For users and the environment.

Latest Advances. With ThinkVantage™ Technologies.

Service and Support. Virtually anywhere and any way you want it.

The net effect can be quite amazing. Read on and learn how it's done.



ThinkPad Port Replicator II

THINKVANTAGE DESIGN: IDEAS YOU NEVER THOUGHT POSSIBLE

Form plus function plus user feedback: that's ThinkVantage Design. It's a formula that creates something more than synergy. It's more about design that energizes users. ThinkVantage Design focuses on the elements people are most directly involved with, for greater comfort, productivity—even lower costs. It starts with years of intense research into what users need, what they like and even what frustrates them. Users then test and retest and offer feedback and suggestions.



ScrollPoint Pro Optical Mouse
USB and PS2

FOR PEOPLE WHO WANT THE BIG PICTURE AND APPRECIATE THE FINE DETAILS

ThinkPlus Accessories are built on a foundation of classic design principles, simple forms and quality materials. ThinkVision® monitors offer a lightweight beveled design, with select models that can be adjusted to fit your viewing preference. Lift, tilt, swivel or rotate for the ultimate in viewing comfort. The ScrollPoint® Pro Optical Mouse USB and PS2 lets Internet surfers¹ enjoy greater finger comfort with a contoured shape, sure-grip rubberized sides and pressure-sensitive scrolling in any direction.



Enhanced Performance
Wireless Keyboard and Mouse

A unique metal plate in the legendary keyboard adds substance to reduce flex, slippage and even a bouncing keyboard. The keys themselves pack more innovations into every cubic inch than you'd ever dream possible.

Take a single key and see all that goes into it.

- Rounded key tops, based on the popular Selectric shape
- Spherical indentations, longer than wide, to fit fingertip shape
- Slightly rough matte finish to aid finger positioning
- Stroking surface width of 12mm for better fit
- Smooth key movement, preferred by users
- Kinesthetic feedback with short duration; low click sound
- Lighter force, preferred by users
- Flat keyboard profile, preferred by users
- Tested to meet ISO standards and meet or exceed user satisfaction levels.

HARD TESTING AND HIGH STANDARDS

An accessory may look great. It might feel perfect. But it must also perform, day in and day out. From 9 to 5 and back again. That requires testing throughout the design process. Rigorous testing, repetitive and even abusive testing. So users can be confident their accessories will survive the trials of the business world. The fact is, only a product that successfully passes every tough test we throw at it can join the ThinkPlus Accessories family.

The types of testing to which these accessories are subjected could fill a book. The short list could fill this page:

Acoustics	Mechanical	Shock
Architecture Verification	MET	Signal Quality Analysis
Early Life Performance	Operating System	System
Electrical	Packaging	Temperature
Electromagnetic Compatibility	Performance Analysis	Thermal Analysis
Energy Savings	Power Management	Usability
Environmental Stress	Product Safety	Vibration
Homologation	Related Products	And more
Humidity		



IT WORKS, BUT DOES IT WORK WELL WITH OTHERS?

You need to be confident that any accessory you purchase works well with your ThinkPad and ThinkCentre computers. That's one of the most critical tests these accessories go through. The goal is to offer full compatibility with the Think® family of offerings.

ThinkPad internal optical and hard drive options are designed, tested, and supported for fit and function in ThinkPad media bays. ThinkPad optical and hard drive options go through additional screening-quality testing to offer better quality than the generic versions of these drives. Compatibility tests are performed for memory cards while the hardware operates under various hardware and software configurations.

The outcome? Peace of mind that your systems are not only enhanced by these accessories, but will actually perform when put to the test.



USB 2.0 CD-RW
DVD-ROM Combo Drive

SAFETY FOR YOU AND YOUR WORLD

MADE TO PERFORM SAFELY

Some companies may test for safety using nominal conditions. ThinkPlus accessories go through worst-case scenarios. Power adapters and batteries go through worst-case power dissipation. That means more robust performance, longer life and increased field reliability due to the lower temperatures at the worst-case loads. Only ThinkPlus Accessories offers branded power accessories.

MADE TO BE SAFER FOR THE ENVIRONMENT

ThinkPlus is part of a corporate commitment to environmental leadership. The Lenovo global environmental management system is key to the company's vigilant protection of the environment across all operations worldwide.

ThinkPlus Accessories are certified throughout the world: In the United States, they hold FCC certification; in Europe, the Middle East and Asia, CE certification; In Taiwan, BSMI certification; In Korea, MIC certification, in Japan, VCCI certification; and C-Tick certification in Australia and New Zealand. By the end of 2005, ThinkPlus Accessories will be in full compliance with RoHS.



ThinkPad 72W AC Adapter



ThinkPad
Li-Ion Battery

THINKVANTAGE TECHNOLOGIES

THINKVANTAGE TECHNOLOGIES: THE FINE ART OF STATE-OF-THE-ART

ThinkVantage Technologies were developed to help make personal systems less dependent on IT staff for basic tasks like deployment, backup, and security. That helps free up users and IT staff to focus on the business at hand, such as making a company more successful. You'll find these exclusive innovations in many accessories, too.

The new Preferred Pro USB Keyboard with Fingerprint Reader offers the convenience of accessing confidential files with the swipe of a finger. With fingerprint-reader software and Client Security Software for the Embedded Security Subsystem, users can create one of the most secure logon processes available¹. Push the Access button and connect to a host of information and tools to help you set up, understand, maintain, and even enhance your ThinkPad notebook or ThinkCentre desktop.

The Portable 40GB USB 2.0² Hard Drive with Rescue and Recovery™ provides a complete image recovery solution. Should a software or hardware failure occur, this exclusive software helps protect against data loss by returning to a previously saved image.



Preferred Pro USB
Keyboard with Fingerprint Reader



40GB USB 2.0
Hard Drive

SERVICE AND SUPPORT THAT'S ALWAYS ON.

The award-winning Service and Support you count on for ThinkPad notebooks and ThinkCentre desktops applies to ThinkPlus Accessories as well.



On-the-system. Tools such as the Blue button on ThinkCentre keyboards and Rescue and Recovery on portable hard drives provide expertise at your fingertips: support information, self diagnosis, automated solutions and data protection and restoration.

On-the-Web. Extensive and in-depth online¹ eSupport offers multiple file download capabilities and automated solutions, 24/7*.

On-the-phone. Trust a leader in 24/7* on-the-phone service. Chances are good, some might say great, that your problem can be solved in just one call. Call routing, metrics and continuous feedback make these HelpCenter® operations more effective and help minimize your wait time³.

On-the-way. You'll find a team of pros with a complete range of services, coupled with a broad portfolio of skills and experience. A wide choice of flexible warranty and maintenance services is available in more than 160 countries⁴. Plus, an extensive Business Partner network can bring the global power of Lenovo support to any size business.

*24/7 U.S. and Canada only



ThinkPad X41 with X4 UltraBase™