

## LENOVO THINKPAD® R400 AND R500 NOTEBOOKS

### SMART IDEAS THAT BOOST PERFORMANCE WITH INNOVATIVE TECHNOLOGY.



#### COST-EFFECTIVE SOLUTIONS FOR MAINSTREAM PRODUCTIVITY

- Combines the mainstream performance of the Intel® Core™2 Duo processor with the best blend of reliability, durability, versatility, mobility and security



#### BEST WIRELESS SOLUTIONS

- WLAN antenna design provides for superior performance in connectivity with greater throughput and higher bandwidth up to 3x3
- All models feature the best connectivity options and support WLAN and Wireless USB over UltraWide Band (UWB - ThinkPad R400 notebook only), initially starting in the U.S. and Japan
- Select ThinkPad R400 notebooks may be equipped with WWAN



#### CUTTING-EDGE TECHNOLOGIES

- Switchable graphics (discrete to integrated) to optimize graphic performance and improve battery life when customers run non-graphic intensive applications
- New extended 9-cell battery (available on ThinkPad R400 notebooks)
- Latest Intel® Turbo Memory to boost power and performance
- DisplayPort on ThinkPad R500 notebooks, the next generation display interface technology, combines HD video to provide better performance speed and higher resolutions for monitors, TVs and projectors
- Excellent voice and video communication with an integrated 1.3 megapixel camera and digital microphone, with true sound and background noise cancellation, to provide superior speech recognition
- New Constant Secure program with Failsafe Anti-theft capability



#### ENVIRONMENTALLY RESPONSIBLE

- One of the most energy-efficient ThinkPad notebooks
- EPEAT Silver rated
- Climate Savers certified
- Greater use of recycled plastics
- Industry's first PC to be GREENGUARD Air Quality Certified®

**NEW NAMING SYSTEM:** The latest ThinkPad R Series marks the introduction of a new product-naming system. The ThinkPad R61 notebook will now be referred to as either the ThinkPad R400 notebook or the ThinkPad R500 notebook. The second character of the name refers to the display size of the ThinkPad, making it easier to understand the two different offerings (ThinkPad R400 notebook = 14.1" display and ThinkPad R500 notebook = 15.4" display). Also, all ThinkPad systems will now transition to widescreen offerings and will include a variety of new technology features.



Lenovo recommends Windows Vista® Business.

## THE NEW THINKPAD R SERIES

ENGINEERED TO REACH NEW HEIGHTS IN CONNECTIVITY, PRODUCTIVITY, POWER MANAGEMENT, ENVIRONMENTAL RESPONSIBILITY AND COMFORT.

By combining the latest Intel® technology, switchable graphics and a variety of wireless solutions, the ThinkPad R Series notebooks are designed to boost performance and help you work smartly and efficiently. To begin with, they feature 14.1" and 15.4" widescreen displays with a wide range of technology that includes the latest hard drives with Full Disk Encryption (FDE), a camera on select models, a 7-in-1 media card, a 9-cell battery and a wider TouchPad for improved ergonomics. ThinkVantage® Client Security Solution with an Integrated Fingerprint Reader and SmartCard support are other innovative features that give these notebooks extra protection by securing data against potential intruders.

Equally reassuring is the fact that all ThinkPad R Series models enjoy worldwide, round-the-clock service and support and come with an industry-leading warranty.



### OUTSTANDING BATTERY LIFE

New power management features to enable extended battery life. Eg.: Enhanced Battery Stretch allows users to select the most efficient power management on demand



### SWITCHABLE GRAPHICS

Provision for an easy switch between discrete and integrated graphics to enable maximum battery life and performance (ThinkPad R400 notebook only)



### BLU-RAY OPTICAL DRIVE

Availability of the next revolution in optical storage solutions on the ThinkPad R Series 14" & 15" wide discrete graphics systems to provide huge storage capacity using Blu-ray media – up to 25GB/50GB (single/dual layer). This storage solution also supports HDCP for reliable Hi-Definition video and Blu-ray Disc (BD) High-Definition movie playback



### COOL AND QUIET

Focused air flow design to provide for cooler systems and balanced temperatures across the system. With adaptive thermal management, systems are also up to 4dB quieter

## THINKPAD® R400 / R500 SPECIFICATIONS

### THINKPAD R SERIES

#### Keyboard

Ergonomic keyboard with palm rest, ThinkPad UltraNav® multipointing system including TrackPoint® pointing device with "Press-to-Select", Internet Scroll Bar, Intuitive volume, ThinkVantage button and Windows® keys

#### Included Software (preloaded)

Adobe Reader, Diskkeeper Home, Microsoft® Windows Live™ Toolbar & Search, Roxio Multimedia, Lenovo Multimedia Center for Think Offerings, PC-Doctor, Norton Internet Security (with 90 days of virus definitions), ThinkPad Utilities (Power Manager and Presentation Director), ThinkVantage Access Connections®, ThinkVantage Fingerprint Software, ThinkVantage Productivity Center with Away Manager, ThinkVantage Rescue and Recovery®, ThinkVantage System Update (downloadable), ThinkVantage System Migration Assistant™

#### Port Replicator/Dock

ThinkPad Essential Port Replicator  
ThinkPad Advanced Mini-dock  
ThinkPad Advanced Dock

### THINKPAD R400 NOTEBOOK

#### Preloaded operating system

Genuine Windows Vista® Ultimate 32  
Genuine Windows Vista® Business 32  
Genuine Windows Vista® Business 64  
Genuine Windows Vista® Home Premium 32  
Genuine Windows Vista® Home Basic 32  
Genuine Windows® XP Professional Supported

#### Processor

Intel® Core™2 Duo processor P8400  
Intel® Core™2 Duo processor P8600  
Intel® Core™2 Duo processor T9400  
Intel® Core™2 Duo processor T9600  
Intel® Celeron® processor 575  
Intel® Celeron® processor 585  
Intel® Core™2 Duo processor T5870  
Intel® Core™2 Duo processor T5670

#### Chipset/FSB

Mobile Intel® GM45 Express CS/ICH 9M-E  
Mobile Intel® GM45 Express with Switchable graphics  
Mobile Intel® GL 667MHz (Celeron®)

#### Screen/Graphics

14.1" wide: WXGA (1280 x 800, 107dpi, 185+ nit),  
14.1" wide: WXGA+ (1440 x 900, 120dpi, 200+ nit)  
INT: Intel® X4500;  
DIS: ATI™ Mobility Radeon™ 3470 (256MB VRAM) -  
Switchable GPU  
Windows Vista® Aero and Premium Logo compliant

#### Hard Drive

5400rpm - 80, 160, 250, 320GB  
7200rpm - 160GB, FDE - 200

#### Communications

Intel® Gigabit Ethernet, Bluetooth®, Modem, Intel® WiFi Link 5300 (3x3 AGN), Intel® WiFi Link 5100 (1x2 AGN), ThinkPad 11b/g Wireless LAN Mini PCI Express Adapter III

#### System Memory/Max and Type/Speed

Up to 4GB of PC3-8500 (1066MHz) and  
PC3-6400 (800 MHz) DDR3  
Intel® Turbo Memory 2.0

#### System Ports

3 USB, 1394a, ExpressCard Slot (54mm) + Option Slot 54mm (SmartCard, Multimedia Card Reader, PC Card), Mic. (in), Headphone (out), VGA, lock slot, Integrated Camera (option)

#### Battery/Battery Life

Integrated: 4-cell up to 3.5hr, 6-cell up to 5.3hr, 9-cell up to 8.0hr, 9-cell + Bay Battery up to 10.7hr  
Discrete: 4-cell up to 2.9hr, 6-cell up to 5.0hr, 9-cell up to 7.6hr, 9-cell + Bay Battery up to 10.1hr

#### Travel Weight

Without optical drive: Starting at 4.9 lb for 4-cell, 5.1 lb for 6-cell, 5.5 lb for 9-cell  
With optical drive: Starting at 5.2 lb for 4-cell, 5.4 lb for 6-cell, 5.8 lb for 9-cell

### THINKPAD R500 NOTEBOOK

#### Preloaded operating system

Genuine Windows Vista® Ultimate 32  
Genuine Windows Vista® Business 32  
Genuine Windows Vista® Business 64  
Genuine Windows Vista® Home Premium 32  
Genuine Windows Vista® Home Basic 32  
Genuine Windows® XP Professional Supported

#### Processor

Intel® Core™2 Duo processor P8400  
Intel® Core™2 Duo processor P8600  
Intel® Core™2 Duo processor T9400

#### Intel® Core™2 Duo processor T9600

Intel® Celeron® processor 575  
Intel® Celeron® processor 585  
Intel® Core™2 Duo processor T5870  
Intel® Core™2 Duo processor T5670

#### Chipset/FSB

Mobile Intel® GM-45 Express CS/ICH 9M  
Mobile Intel® PM-45 Express CS/ICH 9M  
Mobile Intel® GL 667MHz (Celeron®)

#### Screen/Graphics

15.4" wide: WXGA (1280x800, 98dpi, 185+ nit)  
15.4" wide: WSXGA+ (1680x1050, 129dpi, 200+ nit)  
INT: Intel® X4500  
DIS: ATI Mobility Radeon™ 3470 (128MB VRAM) -  
Windows Vista® Aero and Premium Logo compliant

#### Hard Drive

5400rpm - 80, 160, 250, 320GB  
7200rpm - 160GB, FDE - 200

#### Communications

Gigabit Ethernet, Bluetooth®, Modem, Intel® WiFi Link 5300 (3x3 AGN), Intel® WiFi Link 5100 (1x2 AGN), ThinkPad 11b/g Wireless LAN Mini PCI Express Adapter III

#### System Memory/Max and Type/Speed

Up to 4GB of PC3-8500(1066MHz) and  
PC3-6400 (800 MHz) DDR3  
Intel® Turbo Memory 2.0

#### System Ports

3 USB, 1394a, ExpressCard Slot (54mm) + Option Slot 54mm (SmartCard or PC Card), dedicated Multimedia Card Reader, Mic. (in), Headphone (out), VGA, DisplayPort, Lock Slot, Integrated Camera (option)

#### Battery/Battery Life

Integrated: 4-cell up to 5.0hr, 6-cell up to 8.1hr, 9-cell + Bay Battery up to 10.9hr  
Discrete: 4-cell up to 4.3hr, 6-cell up to 6.9hr, 9-cell + Bay Battery up to 9.4hr

#### Travel Weight (without optical drive)

Starting at 6 lb for 6-cell, 6.4 for 9-cell

#### Weight (with optical drive)

Starting at 6.4 lb for 6-cell, 6.8 lb for 9-cell

## THINKPAD® R SERIES GOES GREEN



Select ThinkPad R400<sup>16</sup> notebook models are EPEAT Gold rated and the ThinkPad R500 notebook is an EPEAT Silver rated PC. These notebooks consume 25% less power when compared to previous generation notebooks and also have Energy Star 4.0 and Climate Savers certifications.



What else makes the ThinkPad R Series so "green"?

- Industry's first PC to be GREENGUARD Air Quality Certified®
- Increased power efficiency with Battery Stretch feature
- Greater use of recycled plastics
- Mercury and arsenic-free displays

DESIGNED TO DO THE UNEXPECTED

MAKE AN AMAZING PC EVEN BETTER.

THINKPAD R400/R500 NOTEBOOK ACCESSORIES:



THINKPAD R400/R500 Notebook DDR3 SDRAM SODIMM 2GB MEMORY (43R1988) Lowest-cost method to boost system performance.



THINKPAD R400/R500 Notebook CARRYING CASE DELUXE EXPANDER CASE (43R2478) Easily transports and protects your ThinkPad against bumps and jolts.



THINKPAD R400/R500 Notebook BLUETOOTH LASER MOUSE (41U5008) Small, compact, portable, ambidextrous travel mouse for anyone on-the-go or for everyday use.



THINKPAD R400/R500 Notebook 9 CELL LI-ION BATTERY THINKPAD R400 Notebook (43R2499) THINKPAD R500 Notebook (40Y6797) Carry spare battery, or replace system batteries when charge capacity diminishes with time.



THINKPAD R400/R500 Notebook ADVANCED MINI DOCK (250410U) Rear ports to offer enhanced cable management and connectivity; quick and easy access to peripherals.



THINKPAD R400/R500 Notebook 12W PRIVACY FILTER (43R2470) Keeps screen information private.



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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] Memory: Lenovo notebooks have a new 64-bit architecture. Memory can be expanded to 3 or 4 GB of addressable memory, depending on whether the operating system is 32- or 64-bit. Notebooks with a Windows Vista 32-bit or previous Windows 32-bit operating system can support up to 3 GB of addressable memory. Notebooks with a Windows Vista 64-bit operating system can support up to 4 GB of addressable memory. [2] Switchable graphics: Memory may be limited to 2.5 GB on models with a 32-bit operating system, depending on configuration and applications, for selected switchable graphics models. [3] Weight: includes battery and optional travel bezel instead of standard optical drive in Ultrabay™ drive, if applicable. Weight may vary due to vendor components, manufacturing process and options. [4] WWAN Providers: Coverage not available in all areas. Service available via select service providers and is available in select metropolitan markets. Service agreement required. Special credit and tenure restrictions and additional charges may apply to international roaming. A network connection, third-party software, additional hardware, and/or subscription to a third-party service may be required for certain solutions/applications. Additional restrictions apply. Service is subject to the applicable service agreement/terms from the respective service providers, the corresponding rate plan brochure and coverage maps. Offer subject to change. [5] International warranty service: is available for most models in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from those in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries. [6] Mobile processors: Power management reduces processor speed when in battery mode. [7] Operating system: Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Refer to lenovo.com/pc/support and enter your machine type and model number for more information. [8] Hard disk drive: GB=1,000,000,000 bytes. Accessible capacity is less; up to 4GB is service partition. [9] Models with 4GB Memory: Total accessible memory will be less and will vary depending on the system configuration. Maximum capacity may require purchase of optional component. Subject to availability of 4GM DIMMs. [10] 11a, 11b, and 11g wireless: are based on IEEE 802.11a, 802.11b, and 802.11g respectively. The IEEE 802.11n specification has not been finalized and is currently in draft release. The Lenovo™ and Thinkpad® 11a/b/g/n Wireless Lan Mini-PCI Express Adapters are based on the Draft Release, Version 1.0, of the IEEE 802.11n specification. An adapter with 11a/b, 11a/b/g, or 11a/b/g/n can communicate on any of its supported formats; the actual connection will be based on the access point to which it connects. [11] The Bluetooth word mark and logos: are owned by Bluetooth SIG, Inc. and any use of such marks by Lenovo is under license. [12] Battery: These model numbers achieved Battery Rundown Time of at least the time shown during testing. A description of the testing is available at lenovo.com/pc/www/thinkpad/batterylife. [13] Limited warranty: Support unrelated to a warranty issue may be subject to additional charges. [14] Included Software: may differ from its retail version (if available) and may not include user manuals or all program functionality. Listed ThinkVantage Technologies and Included software not applicable. [15] System Memory: Maximum memory capacity may require the replacement of standard component with largest component available. Lenovo notebooks have a new 64-bit architecture. Memory can be expanded to 3 or 4 GB of addressable memory, depending on whether the operating system is 32- or 64-bit. Notebooks with a Windows Vista 32-bit or previous Windows 32-bit operating system can support up to 3 GB of addressable memory. Notebooks with a Windows Vista 64-bit operating system can support up to 4 GB of addressable memory. Memory may be limited to 2.5 GB on models with a 32-bit operating system, depending on configuration and applications, for selected switchable graphics models. [16] Display: LED backlight display are available on ThinkPad R400 models. The following are trademarks of Lenovo: Lenovo, the Lenovo logo, Access Connections, Active Protection System, Rescue and Recovery, System Migration Assistant, ThinkPad, ThinkVantage, TrackPoint, Ultrabay, UltraConnect, and UltraNav. IBM and the IBM logo are registered trademarks of IBM and are used under license. 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