



Lenovo ThinkPad

Product Details

ThinkPad R500 Model NP27Mxx



| At a glance... | | | |
|-----------------------------------|--|--------------------------|---|
| Processor ² | Intel® Core 2 Duo Processor P7370 2.00GHz | Audio | Conexant Azalia Audio Codec |
| Memory (std/max) | 2 GB / 4 GB | Fax/modem speeds | 56Kbps data/14.4Kbps fax |
| Disk capacity ¹ | 250GB | Network Interface | Gigabit Ethernet-Integrated |
| Display | 15.4" 1280x800 -- WXGA TFT | Installed OS | Genuine Windows Vista Business with Windows XP Professional downgrade |
| PCMCIA Card Bus Slots | | | |
| Media Device ⁸ | DVD Recordable:24X Max | | |
| Unique System Features | One Button System Recovery; Bluetooth; Fingerprint Reader; IEEE 1394 | | |

New ThinkPad R500 notebook is the best blend of reliability, durability, versatility, mobility, security, and performance, keeping total cost of ownership low and productivity in the forefront.

Features & Benefits

- Intel® Core™ 2 Duo Processor technology for the enhanced performance
- The ThinkPad R500 features a DisplayPort to make digital display connections easier and more readily available, while also improving performance
- ThinkPad R500 includes Mobile Intel® GMA 4500MHD integrated graphics which provides 50% faster graphics performance compared to previous version chipsets.
- Popular 15.4" WXGA and WXGA + widescreen display
- ThinkVantage manageability tools that are built-in standard. Power Manager and Access Connections have been improved to enhance the user experience.

General Information

Price

Note⁷

Administrative Information

| | |
|----------------------------------|--|
| Part number | Description |
| NP27Mxx | R Series 2G 1 2/250 XPP 15.4 |
| Product category: | Mobile |
| Product family: | Lenovo ThinkPad |
| Product series: | ThinkPad R Series |
| UPC Code: | |
| Model name: | ThinkPad R500 |
| Worldwide part number: | 27147MG |
| Retail SKU #: | |
| Global model: | No |
| Workhorse model: | No |
| Type / Model: | 2714-7MG |
| Standard pack quantity: | |
| Announce status: | Announced |
| Availability status: | TopSeller |
| Announce date: | 30 Sep 08 |
| General availability date: | 30 Sep 08 |
| IBM announcement number: | ZL08-0073 |
| Announcement of withdrawal date: | |
| Withdrawal date: | |
| Withdrawal announcement number: | |
| Final returns date: | |
| Final returns request date: | |
| Returns announcement number: | |
| Alternative models: | |
| Most recent change date: | |
| Reason for change: | |
| Countries of origin: | |
| Ship group: | System unit with country -specific keyboard Worldwide AC adapter Country-specific line cord Rechargeable Li-Ion battery pack TrackPoint caps Publication Group - ThinkPad R500 Notebook Setup Guide - ThinkPad R500 Notebook Troubleshooting Guide - License Agreement and supporting documentation TopSeller |
| Special model designation: | |

Warranty

Limited Warranty period and type³: **One year parts and labor (system battery: one year) Customer Carry-in Repair**

Technical Information

Architecture

| | |
|------------------------|------------------------|
| Form factor: | Notebook |
| Bus type/architecture: | PCI/PCI Express |
| Expansion bus type: | PCI/PCI Express |
| Bay Type: | |
| Indicator light: | Yes |
| Cover material: | Business black |

Display

| | |
|------------------------------------|-------------------|
| Screen type description: | WXGA TFT |
| Viewable image size (diagonal): | 15,4inches |
| Screen illumination: | Backlit |
| Max resolution on built-in screen: | 1280x800 |

Max colors or grey shades: **16777216**
External display supported: **Yes**
Max resolution on external display:
Simultaneous external display: **Yes**

Processor

Processor (CPU)²: **Intel® Core 2 Duo Processor P 7370**
Processor internal clock speed²: **2.00GHz**
Front side bus: **1GHz**
Processor manufacturer: **Intel**
L2 external CPU cache std/max: **- /**
Upgradable processor:
BIOS type: **Flash ROM**

Memory

Memory (RAM) std/max: **2GB / 4GB**
RAM speed: **1066MHz**
Optional RAM configuration: **512:1024:2048MB SODIMM**
RAM type: **PC3-8500 DDR3 SDRAM**
RAM slots total (available): **2 SODIMM (1 SODIMM)**

Hard disk

Hard disk controller: **Serial ATA**
Hard disk size¹: **250GB**
Hard disk type: **Serial ATA**
Average seek time: **12ms**
Average latency: **4,17ms**
Number of platters: **2**
Platter RPM: **5400**
Burst transfer rate: **150MBps**
Sustained data trans rate (low; high): **-**

Graphics subsystem

Graphics chipset: **Intel Graphics Media Accelerator 4500MHD**
Graphics type: **-**
Graphics data width: **128**
Video RAM std/max: **- / -**
Video RAM type: **DVMT**
Max resolution (with max video RAM) NI: **2048x1536 16777216 colors**
Max colors (with max video RAM): **16777216**
Graphics bus interface: **PCI Express**
Graphics features:

Multimedia

Media speed⁸: **24X Max**
Media interface type: **EIDE**
Media data transfer rate: **15,7KBps**
Media average access time: **150ms**
Media transport type: **Side tray loading**
Recordable: **Yes**
Removable: **Yes**
Audio features: **Mute Button; Speakers (integrated)**
Multimedia features: **Display Port, Integrated microphone, Multimedia Center,**

Speakers(stereo)/headphone jack, 7 in1 Multicard Reader

Audio

Audio chipset make & model: **Conexant Azalia Audio Codec**
Audio data width: **24**
Number of integrated speakers: **2**
Speaker power rating: **2Watts**
Volume control buttons: **Yes**

Communications

Fax/modem: **V.90&K56Flexvoice&Ethernetcard,V.90 & K56 w Ethernet**
Fax/modem speeds: **56Kbps data/14.4Kbps fax**
Infrared Port: **No**
Wireless Type: **LAN**
Wireless Standard: **Intel WiFi Link 5100AGN**
Wireless Max. Speed: **11a:54Mbps, 11b:11Mbps, 11g:54Mbps, 11n:exceeds 100Mbps**
Antenna: **UltraConnect II**
Description: **Intel Wireless Wi-Fi Link 5100**
Frequency: **802.11:2.4 to 5 GHz**

Network card: **Integrated Gigabit Ethernet**
Network interface: **Gigabit Ethernet- Integrated**
Network speed: **10Mbps,100Mbps,1000Mbps**
Network features:

Accessories

A/C adapter:
Worldwide A/C compatibility: **Yes**
Port replicator: **None**
Dock: **None**

Standard features

Pointing device type: **UltraNav (TrackPoint and TouchPad)**
Standard diskette size: **-**
Optional diskette size: **-**
Diskette drive configuration:
Keyboard type standard: **Full size**
Keyboard light: **Yes**
Product approvals/certifications⁴ :

Power management

Note⁵

Battery life - min/max: **4.5 Hrs**
Battery type(s): **6 Cell Lithium-Ion**
Charge time - on/off: **6.0Hrs / 4.0Hrs**
Heat emissions: **65W**
Sound emissions: **40dB**
Power management features⁴ : **Battery Power Status Display
EasyEject Utility**

Expansion options

Plug and play support: **Yes**

Standard Interfaces:

Ports (type):

Expansion ports:

3 USB 2.0, 7-1 Multi Media Card Reader (SD,SDHC,XD,MMC, Memory Stick, Memory Stick Pro, Display port, Expansion Bus port (for Dock II/Mini Dock or Port Replicator II), External Display (VGA), Headphone jack, IEEE 1394, Microphone jack, RJ-11, RJ-45

Weight & dimensions

Note⁶

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|--|---------|
| Weight: | 2,94Kg |
| Travel weight: | 0,31Kgs |
| Height: | 38,5mm |
| Width: | 358,6mm |
| Depth: | 260mm |
| Operating Temperature (C) (low; high): | 10; 31 |
| Relative Humidity (%) (low; high): | 8; 80 |

Software

Tested operating systems:

Microsoft DOS 6.22, Microsoft Windows XP Home Edition SP 1a/SP2a 32bit, Microsoft Windows XP Professional SP 1a/SP2a 32bit, Windows Vista Business, Windows Vista Business 64, Windows Vista Enterprise Edition 32-bit, Windows Vista Enterprise 64-bit, Windows Vista Home Basic, Windows Vista Home Basic 64-bit, Windows Vista Home Premium, Windows Vista Home Premium 64, Windows Vista Ultimate, Windows Vista Ultimate 64-Bit

Operating system provided:

Genuine Windows Vista Business with Windows XP Professional downgrade

Communication/networking applications:⁹

Device drivers/utilities:⁹

Multimedia applications:⁹

Productivity applications:⁹

Other applications provided:⁹

Preloaded applications: Yes

Security

Universal management features:

Automatic software and driver updates

Help

Lenovo Care

Password management

Simple network connectivity

1-Button system recovery

Security features:

Hard disk drive password

Norton Internet Security

Power on password

Security Slot

Fingerprint reader

VPD support:

Security Chip:

Intel iTPM

Integrated Fingerprint Reader

Yes

Selected Accessories and Upgrades

*Please see footnotes under Product Specific Notices for further information

Description

Part Number

Accessories and Upgrades (A Lenovo Product) *See footnotes for limitations*

Monitors & Monitor Accessories

Flat Panel Monitors

15"

Lenovo L151 15.0in TFT LCD (15.0in 381.0 mm VIS) TCO-99 Business Black Monitor T65ACXX

17"

Lenovo ThinkVision L 1700P LCD Monitor R27HExx

Lenovo L171p 17.0in Hybrid TFT LCD (17.0in/432mm VIS) TCO-03 Business Black Monitor T17HPxx

Lenovo L174 17.0 in Hybrid TFT LCD (17.0 in/432mm VIS) TCO-03 Business Black Monitor T27AExx

Lenovo L174 17.0 in Analogue TFT LCD (17.0 in/432mm VIS) TCO-03 Business Black Monitor T27AGxx

Lenovo L174 17.0 in Analogue TFT LCD (17.0 in/432mm VIS) TCO-03 Business Black Monitor T27ENxx

Lenovo ThinkVision L 1700P LCD Monitor T27HExx

Lenovo ThinkVision L 1900 LCD Monitor R35AExx

Lenovo ThinkVision L 1900P LCD Monitor R43HExx

Lenovo ThinkVision L 1940 19.0in (19.0in/481mm VIS) Wide LCD Business Black Monitor R44ABxx

Lenovo ThinkVision L 1940P 19.0in (19.0in/432mm VIS) Wide LCD Business Black Monitor R44HBxx

Lenovo L193 19.0in Wide Analogue TFT LCD (19.0in/481mm VIS) TCO-99 Silver/Gray Monitor T20ASxx

Lenovo L193P 19.0in TFT LCD (19.0in/483mm VIS) TCO 03 Business Black Monitor T31HBxx

Lenovo L193P 19.0in TFT LCD (19.0in/483mm VIS) TCO 03 Business Black Monitor T31HNxx

Lenovo ThinkVision L 1900 LCD Monitor T35AExx

Lenovo L190x 19.0in TFT LCD (19.0in VIS) TCO 03 Business Black Monitor T39HNxx

L1900P 19in/19.0in VIS BLK MON T43HExx

Lenovo ThinkVision L 1940 19.0in (19.0in/481mm VIS) Wide LCD Business Black Monitor T44ABxx

Lenovo ThinkVision L 1940P 19.0in (19.0in/481mm VIS) Wide LCD Business Black Monitor T44HBxx

Lenovo L197 Wide 19.0in Hybrid TFT LCD (19.0in/483mm VIS) TCO 03 Business Black Monitor T44HNxx

20-33"

Lenovo D221 22.0in Hybrid TFT LCD (22.0in/559mm VIS) TCO-99 Business Black Monitor 45K1416

Lenovo D221 22.0in Hybrid TFT LCD (22.0in/559mm VIS) TCO-99 Business Black Monitor 45K1417

Lenovo ThinkVision L 2440P Wide LCD Monitor R40HBxx

Lenovo ThinkVision L 2440x 24.0in (24.0in/ 610mm VIS) CTO-03 Business Black Monitor R41HBxx

Lenovo ThinkVision L 2240p 22.0in (22.0in/559mm VIS) Wide LCD Business Black Monitor R42HBxx

Lenovo D221 22.0in Hybrid TFT LCD (22.0in/559mm VIS) TCO-99 Business Black Monitor T22HGxx

Lenovo D221 22.0in Hybrid TFT LCD (22.0in/559mm VIS) TCO-99 Business Black Monitor T22HNxx

Lenovo D222 22.0in Hybrid TFT LCD (22.0in/559mm VIS) TCO-99 Silver/Gray Monitor T22HSxx

Lenovo L220x Wide 22.0in TFT LCD (22.0in/569mm VIS) TCO 03 Business Black Monitor T33HBxx

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| Lenovo L220x Wide 22.0in TFT LCD (22.0in/569mm VIS) TCO 03 Business Black Monitor | T33HNxx |
| Lenovo L200p 20.0 in Hybrid TFT LCD (20.0 in/510.5 mm VIS) TCO-03 Business Black Monitor | T38HBxx |
| Lenovo L200p 20.0 in Hybrid TFT LCD (20.0 in/510.5 mm VIS) TCO-03 Business Black Monitor | T38HNxx |
| Lenovo ThinkVision L2440P Wide LCD Monitor | T40HBxx |
| Lenovo ThinkVision L2440x 24.0in (24.0in/ 610mm VIS) CTO-03 Business Black Monitor | T41HBxx |
| Lenovo ThinkVision L2240p 22.0in (22.0in/559mm VIS) Wide LCD Business Black Monitor | T42HBxx |
| Batteries & Power <i>See footnotes for limitations</i> | |
| Accessories for Slim AC/DC Adapter | |
| Lenovo L8a Tip for Blackberry and Select Motorola Phones (10-pack) ¹⁰ | 41R4464 |
| Batteries | |
| Lenovo 3000 & ThinkPad R60/T60/Z60 Series | |
| ThinkPad T60 Series 6 Cell Lithium-Ion Battery | 40Y6799 |
| ThinkPad Z60m/T60/R60 9 Cell Lithium-Ion Battery | 41N5666 |
| Carrying Cases <i>See footnotes for limitations</i> | |
| Backpacks | |
| ThinkPad Business Backpack | 43R2482 |
| Business Cases | |
| ThinkPad Business Topload Case | 43R2476 |
| ThinkPad Deluxe Expander Case | 43R2478 |
| ThinkPad Executive Leather Case | 43R2480 |
| ThinkPad Basic Case | 43R9113 |
| Docks & Port Replicators <i>See footnotes for limitations</i> | |
| T60/R60/Z60 Series Docks and Port Replicators | |
| ThinkPad Essential Port Replicator ¹¹ | 250510W |
| ThinkPad Advanced Dock - Europe ¹² | 39T4569 |
| ThinkPad Advanced Dock ¹² | 39T45xx |
| ThinkPad Advanced Mini Dock ¹² | 39T45yy |
| Keyboards & Mice <i>See footnotes for limitations</i> | |
| Keyboard & Mouse Combo | |
| USB Travel Keyboard with UltraNav | 31P9XXX |
| Keyboards | |
| Business Black Preferred Pro Full -size PS/2 Keyboard ¹³ | 31P74xx |
| Pearl White Preferred Pro Full -size PS/2 Keyboard ¹³ | 31P74yy |
| USB Enhanced Performance Keyboard (Black) - French | 73P2629 |
| Business Black Enhanced Performance USB Keyboard | 73P26xx |
| ThinkPlus Preferred Pro USB Keyboard (Business Black) - Chinese/US | 73P5225 |
| Business Black Preferred Pro USB Keyboard | 73P52XX |
| Memory <i>See footnotes for limitations</i> | |
| Notebook Memory | |
| ThinkPad & Lenovo 3000 | |
| Lenovo 1GB PC3-8500 1066MHz DDR3 SODIMM Memory | 43R1987 |
| Lenovo 2GB PC3-8500 1066MHz DDR3 SODIMM Memory | 43R1988 |
| Projectors <i>See footnotes for limitations</i> | |
| Projector Lamps | |
| Lamp for Lenovo M500 (0037A05) Projector ¹⁴ | 40Y7872 |
| Lamp for Lenovo C500 (0039A05) Projector ¹⁵ | 41U3045 |
| Lamp for M400 (0037A04) Projector ¹⁶ | 73P2790 |
| Lamp for C400 (0039A04) Projector ¹⁷ | 73P3191 |
| Lamp for E500 (0038A05) Projector ¹⁸ | 73P4954 |
| Security Solutions <i>See footnotes for limitations</i> | |

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| Physical Security | |
| Kensington Twin Head Cable Lock from Lenovo | 45K1620 |
| Kensington MicroSaver 64068E Security Cable Lock from Lenovo | 73P2582 |
| Privacy Filters | |
| ThinkPad T500 / R500 15W Privacy Filter | 43R2474 |
| Smart Card Security | |
| Gemplus GemPC Smart Card Reader from Lenovo | 41N3004 |
| Gemplus GemPC USB Smart Card Reader from Lenovo | 41N3040 |
| Gemplus ExpressCard Smart Card Reader from Lenovo | 41N3043 |

Storage *See footnotes for limitations*

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| Hard Drives | |
| External | |
| Lenovo USB 2.0 Portable 80GB Hard Drive | 41N8378 |
| Lenovo USB 2.0 Portable 120GB Hard Drive | 41N8379 |
| Notebooks | |
| ThinkPad SL 320GB 5400 rpm Serial ATA Hard Drive | 43N3405 |
| Memory Keys & Microdrives | |
| Lenovo USB Essential Memory Key - 4GB | 45J7904 |
| Optical Drives | |
| External | |
| ThinkPlus USB 2.0 CD-RW/DVD-ROM Combo II Drive | 40Y86XX |
| Notebooks | |
| ThinkPad CD-RW/DVD-ROM Ultrabay Slim Drive (Serial ATA) | 43N3213 |
| ThinkPad DVD Burner Ultrabay Slim Drive (Serial ATA) | 43N3214 |
| ThinkPad Blu-ray Burner Ultrabay Slim Drive (Serial ATA) | 43N3215 |
| ThinkPad DVD-ROM Ultrabay Enhanced Drive (Serial ATA) | 43R9147 |
| ThinkPad CD-RW/DVD-ROM Ultrabay Enhanced Drive (Serial ATA) | 43R9148 |
| ThinkPad DVD Burner Ultrabay Enhanced Drive (Serial ATA) | 43R9149 |
| ThinkPad Blu-ray Burner Ultrabay Enhanced Drive (Serial ATA) | 43R9150 |
| Removable Disk Drives | |
| USB Portable Diskette Drive | 05K9276 |
| Storage Adapters | |
| ThinkPad Serial ATA Hard Drive Bay Adapter II | 43R1980 |

See footnotes for limitations

| | |
|--|---------|
| SafeGuard Easy 4.20 Tier 1 (1 - 100 Licenses) | 40Y9185 |
| SafeGuard Easy 4.20 Tier 2 (101 - 1000 Licenses) | 40Y9186 |
| SafeGuard Easy 4.20 Tier 3 (Over 1000 Licenses) | 40Y9187 |
| SafeGuard PrivateDisk Enterprise Edition Tier 1 (1-100 Licenses) | 73P4929 |
| SafeGuard PrivateDisk Enterprise Edition Tier 2 (101 - 1000 Licenses) | 73P4930 |
| SafeGuard PrivateDisk Enterprise Edition Tier 3 (1001 - 2000 Licenses) | 73P4931 |
| SafeGuard PrivateDisk Enterprise Edition Tier 4 (Over 2000 Licenses) | 73P4932 |

Product Specific and Legal Notices

Product Specific Notices

Numbered Footnotes

1. **Hard Drive:** GB=billion bytes. Accessible capacity is less; up to 4 GB is service partition.
2. **Mobile Processors:** Power management reduces processor speed when in battery mode.
3. **Warranty Information:** For terms and conditions or copies of Lenovo's limited warranty, call 08705 500900 in the U.K. Limited warranty includes International Warranty Service in those countries where this statement of product is sold by Lenovo or Lenovo Business Partners (registration required).

4. **Energy Star:** As an Energy Star Partner, Lenovo has determined that this product meets the Energy Star guidelines for energy efficiency.

5. **Battery:** These model numbers achieved the Ziff Davis Media, Inc.'s Business Winstone® 2002 BatteryMark Version 1.0, Battery Rundown Time of at least the time shown. This test was performed without independent verification by the VeriTest testing division of Lionbridge Technologies, Inc. ("VeriTest") or Ziff Davis Media, Inc.; neither Ziff Davis Media, Inc. nor VeriTest makes any representations or warranties as to these test results. Winstone is a registered trademark and BatteryMark is a trademark of Ziff Davis Publishing Holdings, Inc. in the U.S. and other countries. Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning and other customer preferences.

6. **Thinness:** may vary at certain points on the system.

7. Unless otherwise indicated, prices shown are estimated reseller prices to end users. Reseller prices may vary. Lenovo reserves the right to change prices and product specifications and to discontinue marketing products without notice.

8. **CD/DVD drive speeds:** list maximum rates; rates are variable and are often less than the maximum.

(Tape Drives) Data compression may be software dependent.

9. Actual applications included dependent upon country.

Generic Footnotes

ADSL Modems:

Actual modem speeds: depend on many factors, including the plan you sign up for with your ADSL provider, and are often less than the maximum possible.

New 56K v.92 Modem Standard:

Modem speeds: Public network download speeds are limited to 53 Kbps. Upload speeds are limited to 48 Kbps for v.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Requires download of v.92 microcode, when available, and country approval. Check with your telephone and ISP service providers for availability.

Included Software: may differ from its retail version (if available) and may not include user manuals or all program functionality. License agreements may apply. Operating systems that are not preloaded on the system may not provide full-feature functionality. Please refer to lenovo.com/think/pc/support, select notebook brand, click on "Product Information", choose your machine type, then click on "Product Limitations"

Titanium composite: As tested using the high-flex modulus test. **Travel Weight:** includes battery and optional travel bezel instead of standard optical drive in Ultrabay bay, if applicable; weight may vary due to vendor components, manufacturing process and options.

Maximum memory and internal hard disk capacities: may require the replacement of standard component with largest supported component available. Norton AntiVirus comes with 90 days of virus definition updates.

10. To be used with the ThinkPad and IdeaPad 90W Slim AC/DC Combo adapter. For more information, visit: www.lenovo.com/support/slimadapertips

11. Uses the system 90W AC adapter, which can be purchased separately

12. Support for DVI-D (Digital Video Interface - Digital) function is determined by graphic subsystem on notebook.

13. PS/2 function can be obtained through the ThinkPad Port Replicator or the ThinkPad Dock.

14. To be used in the M500 Projector.

15. To be used in the C500 Projector.

16. To be used in the M400 Projector.

17. To be used in the C400 Projector.

18. To be used in the E500 Projector.

Legal Notices

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On ThinkPad systems with an Intel 945GM, 945PM, GM965, or PM965 chipset, even though it is possible to physically install 4GB of memory, the actual amount of memory addressable by an operating system will be limited to 3GB. This limitation does not exist with the Intel GM965 and PM965 with the 64-bit operating systems Windows XP Professional 64-bit and Windows Vista 64-bit Editions.

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