

IBM ThinkPad R51/R40 notebooks

**IBM recommends Microsoft®
Windows® XP Professional
for Business.**



Highlights

- **Count on excellent wireless performance and extended battery life with Intel® Centrino Mobile Technology (select models)**
- **Go anywhere. Designs start at 34mm thin¹ with a travel weight of 2.5kg²**
- **Rotate and magnify images fast with ATI Mobility RADEON 7500 32MB DDR 4X AGP graphics or ATI Mobility RADEON 9000 32MB DDR 4X graphics**
- **Guard data against drop damage. The IBM Active Protection System (on R51/R50 models) provides the hard disk drive up to four times greater impact protection than in notebooks without it**
- **Help yourself. IBM Rescue and Recovery with Rapid Restore software on R51 models helps users recover systems by themselves**
- **Stretch your investment with integrated 11b/g³ wireless technology on select models.**

For everyone in the office

Introduce your organisation to the affordable IBM ThinkPad R51 notebook with Intel Centrino Mobile Technology (select models) and easy-to-use system recovery software. Certain models also include great wireless options. Others feature advanced graphics capabilities.

The latest breakthrough

Like airbag technology, the new IBM Active Protection System (on R51/R50 models) features built-in motion sensors. When a fall is detected, this innovation helps guard the hard disk drive. That makes it less likely data on your hard disk drive will be lost because of some bumps or drops.

Business advantage – it's in here

To help decrease expenses, look inside for IBM ThinkVantage Technologies and ThinkVantage Design elements. You'll see how to work more confidently and efficiently – and gain more time to focus on strategic goals.

Get the edge: IBM ThinkVantage Technologies and Designs

- **Support your mobile workforce** with select wireless ThinkPad R51 notebooks and IBM Access Connections software. It's the easiest way to switch between wired and wireless networks.
- **Put online⁵ and on-system information at your employees' fingertips** with Access IBM. With the push of a button, staff and colleagues can gain answers to common IT questions by themselves.
- **Help reduce help desk calls.** Meet IBM Rescue and Recovery with Rapid Restore software. It's preloaded on ThinkPad R51 notebooks. With this enhanced, one-button solution, staff can restore systems themselves – often without a call to the help desk.
- **Increase hard disk drive safety.** When compared to a notebook cover alone, the IBM Hard Disk Drive Shock Absorber increases hard disk drive protection by 30 percent⁶. This technology is now combined with the IBM Active Protection System for greater protection.
- **Deploy the most secure wireless notebooks in the industry** with the IBM Embedded Security Subsystem 2.0 (select models). It offers built-in hardware and downloadable software-based protection. No other manufacturer offers stronger security as a standard feature.
- **Improve signal reception** with the IBM UltraConnect Antenna. To maximise range, this antenna is built into the display of ThinkPad R Series notebooks. Plus, it supports multiple frequencies to optimise coverage⁴.
- **Point and click two ways** with the IBM ThinkPad UltraNav multi-pointing system. It features touchpad technology and the TrackPoint pointing device.



IBM ThinkPad R51 notebook with optional IBM ThinkPad Dock II.

"... if an average corporation were to apply best operational practices and IBM's ThinkVantage Technologies as defined today, these customers would potentially see reduced ongoing operating costs greater than the cost of new PC or notebook computer hardware itself."

– Aaron Goldberg,
Vice-President, Ziff-Davis Market Experts

Wireless security made easy



Control wireless access and strengthen network security with select ThinkPad R51 notebooks that support Cisco Compatible Extensions. You'll get a PC that's tested to run at the highest levels of performance in a secure, Cisco wireless environment. That includes wireless network password protection and dynamic encryption capabilities available only to users connected to Cisco Aironet wireless networks.

The IBM ThinkPad R51 notebook has been tested in accordance with interoperability criteria set by Cisco Systems, Inc. and is compatible with Cisco Aironet access points running software versions 12.01, 12.02, 12.03, 12.2(8)JA, or 12.2(11)JA. For full disclaimer, see IBM ThinkPad R51 notebook product documentation or the following Web site: ibm.com/thinkpad

Service in São Tomé? Sure

Rely on award-winning IBM Service and Support

Choose an IBM ThinkPad R Series notebook. With just a few clicks, workers can enjoy a wealth of on-system and online resources. Plus, they'll have support in more than 160 countries⁷ worldwide, from São Tomé to Saskatchewan.

IBM ThinkPad R51/50 and R40 notebook specifications

Model	R51/R50	R40
Machine type	1829/1830/1831/2888/2889	2722/2723
Processor/Level 2 Cache⁸	Intel Pentium [®] M Processor 725 (1.6GHz, 2MB L2) or Intel Pentium M Processor 715 (1.5GHz, 2MB L2) or Intel Pentium M Processor up to 1.7 GHz ⁹ /1MB	Intel Pentium M Processor up to 1.5 GHz/1MB
Preloaded operating system¹⁰	Microsoft Windows XP Professional	Microsoft Windows XP Professional
Display/resolution	14.1" TFT XGA/1024x768 15" TFT XGA/1024x768 or 15" SXGA+ (1400x1050)	14.1" TFT XGA/1024x768 15" TFT XGA/1024x768 or 15" SXGA+ (1400x1050)
Hard disk drive	30 ¹¹ or 40GB	20, 30, 40 or 60GB
Memory (std¹²/max¹³)	256MB or 512MB/2GB PC2700 DDR SDRAM	256MB/2GB PC2100 DDR SDRAM
Optical drive	8X MAX DVD ¹⁴ , 24X MAX CD-ROM, DVD-RW or CD-RW/DVD-ROM Combo	8X MAX DVD or CD-RW/DVD-ROM Combo
Video graphics	ATI MOBILITY RADEON 7500 32MB DDR 4X AGP or ATI MOBILITY RADEON 9000 32MB DDR 4X AGP	ATI MOBILITY RADEON 7000 16MB DDR 4X AGP or ATI MOBILITY RADEON 7500 32MB DDR 4X AGP
Integrated communications (varies according to model specification)	Modem; 10/100 or Gigabit Ethernet IBM 11b/g Wi-Fi wireless (select models) Intel PRO/Wireless 2100 Network Connection 802.11b (select models) Intel PRO/Wireless 2200BG Network Connection 802.11b/g (select models) Bluetooth ¹⁵ (select models) Wireless upgradeable models available	Modem; 10/100 Ethernet IBM 11a/b Wi-Fi wireless (select models) Intel PRO/Wireless 2100 Network Connection 802.11b (select models) Cisco 802.11b (select models) Wireless upgradeable models available
Li-Ion battery life¹⁶	Up to 4.7hrs (6-cell)	Up to 4 hrs (6-cell)
With optional extended-life battery	Up to 9.6hrs	Up to 6.2hrs
Ports	Infrared; 2 USB 2.0; parallel; S-Video out; dock/port replicator; external display; AC; adapter; RJ-11, RJ-45; audio: headphone, external microphone, IEEE 1394 (select models)	
Slots	1 type II PC Card or 1 Type III PC Card	1 type II PC Card or 1 Type III PC Card
IBM Embedded Security Subsystem 2.0	Yes	Yes
Keyboard	Ergonomic keyboard with palmrest, IBM ThinkPad UltraNav multipointing system including TrackPoint pointing device with 'press to select', internet scroll-bar, intuitive volume control and Access IBM button	
Dimensions¹	14": 314 x 260 x 34mm 15": 332 x 269 x 37-40mm	14": 313 x 254 x 38.9mm 15": 329 x 267.5 x 40.5mm
Travel weight²	14": starting at 2.6kg 15": starting at 2.8kg	14": starting at 2.5kg 15": starting at 2.9kg
Port replicator/Dock support	Yes/Yes	Yes/ThinkPad Mini-dock only
Limited warranty¹⁷	3 year or 1 year (system)/1 year (battery)	3 year or 1 year (system)/1 year (battery)

For important warranty information, see page 4.

IBM recommends Microsoft Windows XP Professional for Business

IBM ThinkPad R51/R50 and R40 software

Preloaded operating system	Microsoft Windows XP Professional	
Supported operating systems¹⁸	Microsoft Windows XP Professional, Microsoft Windows XP Home Edition, Microsoft Windows 2000 Professional	
Included software¹⁹ (preloaded)	<ul style="list-style-type: none"> Access IBM Access Connections Adobe Acrobat Reader IBM RecordNOW and DLA by Sonic (CD-RW models) IBM Rescue and Recovery with Rapid Restore (R51 models) IBM Rapid Restore Ultra (R50 and R40 models) 	<ul style="list-style-type: none"> InterVideo WinDVD (DVD models) Norton AntiVirus 2004 (OEM Edition) PC-Doctor ThinkPad Utilities Update Connector²⁰ IBM Drive Letter Access (select models)
(Downloadable)	<ul style="list-style-type: none"> Client Security Software (Embedded Security Subsystem models only) 	<ul style="list-style-type: none"> IBM Director Agent Software Delivery Assistant
(Licence – CD not included)	<ul style="list-style-type: none"> Lotus SmartSuite Millennium 	<ul style="list-style-type: none"> Lotus Notes Stand-alone Client

Enhance performance

IBM ThinkPad Dock II (R51/R50 models)

67P899x



Simplify cable management and desktop expansion with one easy step.

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- 1 Thinness may vary at certain points on the system.
- 2 Includes battery and optional travel bezel, instead of standard optical drive in Ultrabay or Ultrabay Plus; weight may vary due to vendor components, manufacturing process and options.
- 3 11a, 11b and 11g wireless are based on IEEE 802.11a, 802.11b and 802.11g, respectively. An adapter with 11a/b, or 11a/b/g can communicate on any of its supported formats; the actual connection will be based on the access point to which it connects.
- 4 UltraConnect Antenna not featured on R40e or R50e models
- 5 Requires separate Internet access account, not included.
- 6 Claim based on IBM operating tilt-drop tests.
- 7 International Warranty Service is available in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.

⁸ At processor speed.

⁹ Mobile Intel Pentium Processors feature Intel SpeedStep Technology. With Intel SpeedStep, processor speed may be reduced to conserve battery power.

¹⁰ Delivered with Microsoft Windows XP Professional or Microsoft Windows XP Home Edition preloaded and a Recovery Partition on the hard disk drive.

¹¹ For hard disk drive, GB equals one thousand million bytes. Accessible capacity is less; up to 4GB is service partition.

¹² For PCs without a separate video card, memory supports both system and video. Accessible system memory is up to 64MB less than the amount stated, depending on video mode.

¹³ Maximum memory and hard disk drive capacity may require the replacement of standard component with largest supported component available.

¹⁴ CD and DVD drives list maximum rates; rates are variable and are often less than the maximum possible.

¹⁵ The Bluetooth word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by IBM is under licence.

¹⁶ 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') nor 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. A description of the environment under which the test was performed is available at ibm.com/pc/ww/thinkpad/batterylife. Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning and other customer preferences. Refer to ibm.com/pc/support and enter machine type and model number for more information.

¹⁷ Support unrelated to a warranty issue may be subject to additional charges.

¹⁸ Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Refer to ibm.com/pc/support and enter your machine type and model number for more information.

¹⁹ Some software may differ from its retail version (if available), and may not include user manuals or all program functionality. Software licence agreements may apply.

²⁰ Update Connector is available at no charge to registered ThinkPad customers during the limited warranty period. Line charges may apply.

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