



## Overview - ThinkPad R31

### ▼ Applicable countries and regions

The new ThinkPad R31 notebook computers deliver the ideal blend of portability and essential features. These easy-to-use notebooks are ideal for mobile users who want the mobile computing essentials, including a large display and removable drive bay in a light-weight notebook.

### Outstanding features

- Powerful Intel(R) Mobile Pentium(TM) III processor-M at 1.13GHz and 1 512KB of on-board cache or Intel Celeron(TM) processors at 1.066GHz and 256KB of on-board cache
- Brilliant active matrix displays:
  - 337.8-mm (13.3-in) TFT with 1024 x 768 resolution
  - 358.1-mm (14.1-in) TFT with 1024 x 768 resolution
- Communications:
  - Integrated Intel 10/100 Ethernet and 56 K V.90 modem (V.92-designed) on all models
  - 802.11b wireless LAN/modem combo card on selected models
  - Two USB ports
  - Embedded Security Subsystem on selected models

### COUNT THE BENEFITS

1. Sleek(6) design; 36-mm (1.42-in) slim
2. Up to 14.1 inch TFT display
3. Intel 830 MG chipset Integrated Direct AGP 3D Graphics dynamically allocates system main memory for video memory usage up to 32 MB based on application, demand, and available memory resource.
4. New easy-loading Ultrabay Plus modular drive bay, optional ThinkPad Port Replicator, and PC card slot
5. ThinkPad button
6. ThinkLight(TM) keyboard light
7. Individual volume up, down, and mute buttons
8. TrackPoint(R) with Press-to-Select, Internet scroll, and magnifying glass features for accurate and convenient control
9. Integrated wireless LAN solution via mini PCI card on select models
10. Integrated Intel 10/100 Ethernet and 56 K V.90 modem (V.92-capable) on all models o RJ-45 and RJ-11 connectors standard on all systems
11. A collection of standard ports including S-video out and two USB ports

### Notes:

1. MHz or GHz only measures microprocessor internal clock speed, not application

performance. Many factors affect application performance.

2. The V.90 modem can receive data at up to 56 Kbps from a compatible service provider and transmit data at up to 31.2 Kbps. Public networks currently limit maximum download speeds to about 53 Kbps. Actual speeds depend on many factors and are often less than the maximum possible.
3. Public network download speeds are limited to 53 Kbs. Upload speeds are limited to 48 Kbs 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, and download of v.92 support device driver when available. Check with your telephone and ISP service providers for availability.
4. Refer to the Lenovo Statement of Limited Warranty for terms governing Lenovo support obligations. For a copy of the Lenovo Statement of Limited Warranty, customers can contact their authorized IBM Business Partner or IBM customer representative. Battery is covered by separate one year limited warranty.
5. Actual weight may vary depending on vendor components, manufacturing process, or options. Weight includes battery and optional travel bezel.
6. Thickness may vary at certain points on the system.
7. US, AP, EMEA--->  
Certain Microsoft software products included with this computer may use technological measures for copy protection. IN SUCH EVENT, YOU WILL NOT BE ABLE TO USE THE PRODUCT IF YOU DO NOT FULLY COMPLY WITH THE PRODUCT ACTIVATION PROCEDURES. Product activation procedures and Microsoft's privacy policy will be detailed during initial launch of the product, or upon certain reinstallations of the software products or reconfigurations of the computer, and may be completed by Internet or telephone (toll charges may apply). <---US, AP, EMEA
8. Expandable to up to 1.0GB of system memory. Memory options up to 512MB SDRAM SO DIMMs each can be added in the two available slots for memory expansion. In order to get the 1GB maximum memory, it will be necessary to remove the standard 128MB or 256MB module and replace it with a 512MB module. Video memory up to 32MB UMA which dynamically allocates system main memory for video memory usage based on application, demand, and available memory resources.
9. You may be asked certain diagnostic questions before a courier is sent. Your PC purchase includes this depot repair service, available in the U.S., during the limited warranty period.

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## At a glance

The new ThinkPad R31 notebook delivers the best blend of portability and essential features.

Features include:

- Fast Intel(R) Mobile processors: Intel Mobile Pentium III processor-M at 1.13GHz with 512KB of on-board cache or Intel Mobile Celeron processors at 1.066GHz with 256KB of on-board cache
- Ultrabay Plus modular drive bay on all models
- Innovative ease of use: ThinkPad button, Modular Ultrabay Plus, and ThinkLight
- ThinkPad Port Replicator support
- Integrated wireless LAN solution via mini PCI card on select models
- Integrated Intel 10/100 Ethernet and 56K V.90(2) modem (V.92(3)-designed) on all models
- RJ-45 and RJ-11 connectors standard on all systems
- Two USB ports
- Infrared
- Image Ultra enabled for all models
- Embedded Security Subsystem on selected models
- One-year, limited warranty(4)
- Award-winning IBM service and support: International Warranty Service (IWS)
- HelpCenter(R) (800-426-7378)
- Windows XP Professional, Windows 2000, or Windows XP Home Edition preinstalled

**ThinkPad R31 features**

	LCD	External	Monitor	
Resolution	TFT	85Hz	75 Hz	60Hz
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640x480	16M	16M	16M	16M
800x600	16M	16M	16M	16M
1024x768	16M	64K	16M	16M
1280x1024	NA	16M	16M	16M
1600x1200	NA	64K	64K	16M

- Intel 830 MG chipset Integrated Direct AGP 3D Graphics dynamically allocates system main memory for video memory usage up to 32MB based on application, demand, and available memory resource.
- Processor: Systems include either a Mobile Celeron processor at 1.0663GHz and 256KB of on-board cache or Mobile Pentium(TM) III processor-M at 1.13GHz and 512KB of on-board cache.
- Memory: Systems have standard system memory of 128MB or 256MB of 133MHz, non-parity, 64-bit SDRAM SO DIMM memory. This is expandable to a maximum of 1 GB with 128, 256, or 512MB SO DIMMS. There are two internal slots for memory modules, one for the 128MB or 256MB of standard memory and one for a memory upgrade. To obtain the maximum 1GB to which memory can be expanded, replace the 128 or 256MB card with a 512MB card and add another 512MB card in the extra slot.
- PC Card: Type III slot can accommodate one Type I, one Type II, or one Type III PC card via the lower connector in the slot. Both 16-bit and 32-bit cards are supported.
- Storage: Standard 20, 30, or 40GB HDD, depending on model. These HDDs issue an alert if a failure is pending. Optional 20 or 40GB HDDs for system unit. Optional 20, 40, and 60GB HDDs are also available for use in the Ultrabay Plus. The

optional second HDD adapter is required. Two HDDs can be used concurrently.

- Audio: Excellent sound quality and volume control

Audio jacks:

- One for external stereo speakers or headphone
  - One for microphone-in
  - One for line-in (on port replicator)
  - One for line-out (on port replicator)
- Other features:
  - Power
  - Infrared
  - Two USB ports
  - Parallel port
  - CRT
  - S-video

### **Applicable countries and regions**

Worldwide

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