High-performance desktop alternatives with exceptional versatility

IBM ThinkPad A Series notebooks

Highlights

- **Work easier with design elements like two modular bays, Web navigation keys and an IBM ThinkPad FlexView™ display**

- **Simplify setup and management of communications on select models with Access Connections**

- **Connect how, when and where you choose with integrated 802.11b wireless (requires wireless LAN), Bluetooth™ wireless, Ethernet and 56K V.92-ready modem on select models**

- **Rely on HelpCenter® support available worldwide, 24 hours a day, 7 days a week**

**The desktop alternative that's right for you:**

The ThinkPad A series is designed for those who want desktop functionality with the flexibility to take work home. Choose from models with solid mainstream performance to models with the ultimate in multimedia and high performance. A30p models provide the maximum performance and multimedia with high-speed hard disk drives, powerful video graphics and improved high-resolution displays for a better e-xperience.

**NEW! Make it your own**

Two modular bays, including the new Ultrabay™ Plus, allow you to further customize your ThinkPad notebook. A selection of options, including storage and optical drives, a keyboard-extending numeric keypad or WorkPad® cradle (requires optional Ultrabay Plus Device Carrier), is sure to include the solution you need.

**NEW! Connect your way, almost anywhere**

Integrated, Wi-Fi-certified 802.11b wireless technology on select ThinkPad A Series notebooks provides wireless access to information on an access-point equipped network. Select A30p models add integrated Bluetooth wireless technology to the already robust mix of connectivity options for a more complete wireless solution. Plus, the Access Connections utility lets you save your connectivity settings and easily switch between modem, Ethernet and wireless.

**Trusted communications**

The IBM Embedded Security Subsystem (IBM Client Security Software 2.0 download required) on select ThinkPad A Series notebooks helps safeguard your data and communications by encrypting files on the hard disk drive and storing encryption keys and passwords in the existing hardware where they are best protected. (Communications encryption requires third-party software.)

Choose IBM today

Go to ibm.com or call 1 888 SHOP IBM to buy direct, locate an IBM reseller or for more information.
The ThinkPad e-xperience

1. **UltraPort connector** is in a better location for more options like the NEW! IBM UltraPort Digital Array Microphone or Bluetooth UltraPort Module from IBM.

2. **NEW! IBM ThinkPad FlexView display** offers increased brightness and high resolution with viewing angles to 170 degrees.

3. The ThinkPad Button launches **Access ThinkPad** to simplify access to online and on-system resources, including Access Connections connectivity management software and award-winning service and support.

4. **NEW! Web navigation keys** work the Internet easier with shortcut keys that replicate most browser functions (8 total, 3 customizable).

5. **NEW! The IBM Embedded Security Subsystem** (IBM Client Security Software 2.0 download required) helps protect data locally and works with third-party software to help secure communications (select models).

6. **NEW! Ultrabay Plus** integrated modular bay supports all Ultrabay 2000 devices including CD-RW/DVD Combo drive, diskette drive or Zip drive. With the optional ThinkPad Ultrabay Plus Device Carrier, you can even add an Ultrabay Plus Numeric Keypad or Cradle for your WorkPad c500 Series.

7. **ThinkLight keyboard light**, unique to IBM ThinkPad notebooks, lets you work in low-light conditions.

8. **Integrated 802.11b wireless technology with dual-antenna system** (select models) built into either side of the display for strong signal performance. **Integrated Bluetooth technology** moves you a step closer to cable-free computing.

9. **Flexible docking options**—common to ThinkPad X, T, R and A Series notebooks:
   - ThinkPad Port Replicator—easy cable management
   - ThinkPad Dock—cable management plus simple desktop expansion including an Ultrabay 2000

10. **RJ-11 and RJ-45 ports** eliminate the need for cable or card swapping to get connected on models with integrated Ethernet and a V.92-ready modem while standard ports for expanded multimedia include a IEEE 1394 connector and S-video in and out.

* A30p models only
## ThinkPad A Series specifications

### Machine type
- **A30p**: 2653 (66U, 65U, 64U, 63U)
- **A30**: 2652 (4CU, 46U, 45U, 44U, 43U)
- **A30**: 2652 (3CU, 36U, 35U, 34U, 33U)
- **A30**: 2652 (2BU, 24U, 23U, 18U, 14U, 13U, 1AU)

### Processor/Level 2 cache
- **NEW!** at 1.2GHz/512KB
- **NEW!** at 1.13GHz/512KB
- **NEW!** at 1GHz/512KB
- **NEW!** at 933MHz/512KB

### Display/resolution
- **NEW!** 15" TFT UXGA IPS (1600x1200)
- 15" TFT XGA+ (1024x768)
- 15" TFT SXGA+ (1400x1050)
- 2XU: 15" TFT XGA (1024x768)
- 1XU: 14" TFT XGA (1024x768)

### Hard disk drive
- 46GB high-speed
- 46GB high-speed
- 30GB
- 20GB

### Memory
- **NEW!** 128MB/1GB PC133 SDRAM
- **NEW!** 8X-2X DVD-ROM
- **NEW!** 8X-2X DVD-ROM
- **NEW!** 24X-10X CD-ROM

### Video graphics
- **NEW!** 32MB SGRAM (ATI Mobility Radeon)
- **NEW!** 16MB SGRAM (ATI Mobility Radeon)
- **NEW!** 16MB SGRAM (ATI Mobility Radeon)
- **NEW!** 16MB SGRAM (ATI Mobility Radeon)

### Communications
- **NEW!** 66U: 801.11b wireless, 56K modem*, 10/100 Ethernet, Bluetooth
- **NEW!** 65U: 801.11b wireless, 56K modem*, 10/100 Ethernet
- **NEW!** 64U, 63U: 56K modem*, 10/100 Ethernet
- 63U: 56K modem*, 10/100 Ethernet
- 62U, 61U: 56K modem*, 10/100 Ethernet
- 61U: 56K modem*, 10/100 Ethernet

### Battery type/battery life
- **NEW!** Li-Ion/2.5hr
- **NEW!** Li-Ion/3.2hr
- **NEW!** Li-Ion/3.2hr
- **NEW!** Li-Ion/3.2hr

### Ports
- RJ-11, RJ-45, 2 USB, serial, parallel, headphone, line-in, microphone, keyboard/mouse, external monitor, S-video out
- **NEW!** IEEE 1394, S-video in, UltraPort connector

### Slots
- 2 Type II or 1 Type III PC Card
- 2 Type II or 1 Type III PC Card
- 2 Type II or 1 Type III PC Card
- 2 Type II or 1 Type III PC Card

### IBM Embedded Security Subsystem
- yes
- no
- no
- no

### Keyboards
- ergonomic keyboard with palm rest
- TrackPoint® pointing device with “Press-to-Select” Internet Scroll Bar
- NEW! Web navigation keys, intuitive volume control and Access ThinkPad

### Dimensions
- 13"x10.8"x1.8-1.9"
- 13"x10.8"x1.8-1.9"
- 13"x10.8"x1.8-1.9"
- 13"x10.8"x1.8-1.9"

### Travel weight
- 7.0 lb/7.6 lb
- 6.8 lb/7.4 lb
- 6.8 lb/7.4 lb
- 6.8 lb/7.4 lb

### Port Replicator/Dock support
- yes/yes
- yes/yes
- yes/yes
- yes/yes

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### Software

#### Preloaded operating system

#### Supported operating systems
- Windows XP, Windows 2000, Windows 98, Windows NT® 4.0, Red Hat Linux®, SuSE Linux, Turbo Linux, Caldera Linux

#### Included software
- (preloaded)
  - Access ThinkPad
  - Access Connections (WXP and W2000 models only)
  - Access Help
  - Adobe Acrobat Reader
  - ConfigSafe
  - Mediamatics DVD (DVD models only)
  - MGI Video Wave IV (A30p only)
  - PC Doctor
  - ThinkPad Utilities
  - Update Connector™
  - VERITAS RecordNow (A30p only)
  - IBM Backup and Restore
  - IBM Client Security Software 2.0 (security subsystem models only)
  - IBM Data Transfer
  - Universal Manageability (UM Services™)
  - Lotus® SmartSuite® Millennium (CD not included)

- (downloadable)
  - IBM Backup and Restore
  - IBM Client Security Software 2.0 (security subsystem models only)
  - IBM Data Transfer
  - Universal Manageability (UM Services™)

- (license)
  - Lotus® SmartSuite® Millennium (CD not included)

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The IBM ThinkPad A Series exemplifies versatility in mobile computing.

—Intel Innovative PC Award Winner, Fall 2001

**Manageability services**

| Installation Services Plus Data Migration | Get your new systems up and running with ServicePac™ for Installation Plus Data Migration. Basic and enhanced services let you pick the level of service you need. Both offer data migration to get your new systems functioning like your old systems quickly. Visit [ibm.com/services/its/us/spinstl.html](http://ibm.com/services/its/us/spinstl.html) for more information. |
| Data Migration Kits | Easily move the data from your old system to your new system with an IBM Data Migration Kit. These kits include the hardware and software necessary to transfer the data files and personal settings from your old computer. Visit [ibm.com/pc/services](http://ibm.com/pc/services) for more information. |
| Easier long-term deployment | IBM ThinkPad notebooks offer workhorse and global models for stable and easy long-term deployment. Visit [ibm.com/pc/workhorse](http://ibm.com/pc/workhorse) for more information. |

**Wireless communications made easy**

Get more freedom to work how you want, where you want with the wide range of Wi-Fi-certified IBM wireless PC offerings and services.

| Select ThinkPad notebooks | Integrated 802.11b wireless technology with a dual-antenna system built into the display cover for increased signal strength. |
| Wireless accessories | Add wireless connectivity to any ThinkPad notebook without rewiring your network with the IBM High Rate Wireless LAN PC Card 128 and the IBM High Rate Wireless LAN Access Point 500 or IBM High Rate Wireless LAN Gateway. |
| Access Connections | Software to simply connect to your network, whether in the office or on the move, wired or wireless. |

Visit [ibm.com/pc/wireless](http://ibm.com/pc/wireless) for more information.

**The first to integrate a security chip in a PC**

| IBM Embedded Security Subsystem | Integrated security chip and IBM Client Security Software 2.0 work together to provide levels of security not previously available. |
| Security chip | Hardware-based protection of critical security information, including passwords, encryption keys, and electronic credentials helps to keep them safe from sniffers, Trojan Horses and other potential invaders. |
| IBM Client Security Software 2.0 | Provides the interface between security-aware applications and the functionality of the chip. In addition, it supports a variety of the latest peripheral security devices that control access to the notebook itself. (downloadable) |

**Additional services**

| Warranty Service Upgrades | Up to three years parts and onsite labor (now available anywhere in the continental U.S.) coverage from the date of the ThinkPad notebook purchase (including warranty period*). Visit [ibm.com/pc/services](http://ibm.com/pc/services) for applicable terms and conditions or call your authorized reseller for additional information. |

*See page 6 for additional warranty information*.

**“The IBM ThinkPad A Series exemplifies versatility in mobile computing.” —Intel Innovative PC Award Winner, Fall 2001**

**ThinkPad Proven solutions**

Complementary to IBM options are additional third-party accessories from ThinkPad Proven™ and WorkPad Proven partners™: Proven products are tested, warranted and supported by the manufacturer to ThinkPad and WorkPad compatibility standards. Visit [ibm.com/ww/thinkpad/proven](http://ibm.com/ww/thinkpad/proven) for a complete list.

- Apricorn, Inc.—EZ-FireDrive, the IEEE 1394 Hard Disk Drive for high-speed storage and backup (use with IBM IEEE 1394 CardBus Card option-19K5679)
- C-Pen—600C/800C “electronic highlighter” which captures, edits, translates and sends text to your ThinkPad notebook via infrared or serial cable
- Margi, Inc.—Display-to-Go 4MB PC Card adapter enables multiple display operation
- MobileStar Network Corporation and Wayport, Inc.— 802.11b wireless service providers (use with integrated 802.11b wireless technology or IBM High Rate Wireless LAN PC Card 128-09N9904)
- Novatel Wireless, Inc.—Merlin PC Card modem for CDPD for ThinkPad notebooks operates as a wireless wide-area Network Interface Card (NIC) or a Dial-Up Networking (DUN) modem interface (wireless service sold separately)
- PORT, Inc.—carrying cases customized for ThinkPad A Series notebooks, ThinkPad Alpha Rolling Case, ThinkPad Backpack

*“Thinkpad warranted and supported by manufacturer to IBM ThinkPad compatibility standards.**

*“Workpad warranted and supported by manufacturer to IBM WorkPad compatibility standards.**
### Customize your ThinkPad notebook

#### NEW!
**ThinkPad Ultrabay Plus Numeric Keypad**

<table>
<thead>
<tr>
<th>Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>22P7330</td>
<td>Reach for a number and find it with the ThinkPad Ultrabay Plus Numeric Keypad. It fits neatly into your optional ThinkPad Ultrabay Plus Device Carrier to create an intuitive keyboard extension. Or, use the ThinkPad Ultrabay Plus Cradle for the WorkPad c500 Series.</td>
</tr>
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#### NEW!
**Bluetooth UltraPort Module from IBM**

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<td>09N9811</td>
<td>Create a cable-free workspace with the Bluetooth UltraPort Module from IBM so your ThinkPad can communicate wirelessly with Bluetooth enabled peripherals like printers or scanners. Or, choose the IBM UltraPort Digital Array Microphone, IBM UltraPort Compact Flash Reader and IBM UltraPort Camera II.</td>
</tr>
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#### IBM Conference Room Data/Video Projector

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<tr>
<td>0039-A01</td>
<td>Make it clear with Texas Instruments DLP technology and XGA (1024x768) resolution at 1300 lumens for presentations with impact. Or, choose the IBM ValueBased Data/Video Projector or IBM MicroPortable Data/Video Projector.</td>
</tr>
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#### ThinkPad CD-RW/DVD Combo Ultrabay 2000 Drive

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<td>08K9572</td>
<td>Combine two drives in one slim, form factor for low-cost, high-capacity read/write storage. Or, select from the expanding range of IBM ThinkPad Ultrabay 2000 devices, including: SuperDisk (LS-240), Zip 250MB, 8X/4X/24X Max CD-RW and 8X-3X DVD-ROM drives.</td>
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#### IBM 128MB 133MHz Memory

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<td>19K4652</td>
<td>Boost performance without breaking the bank—add IBM memory. Modules are available in 64, 128, 256 or 512MB.</td>
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#### IBM High Rate Wireless LAN Access Point 500

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<td>09N9906</td>
<td>Add this &quot;wireless bridge&quot; between your existing wired Ethernet infrastructure and wireless clients. Also available: IBM High Rate Wireless LAN PC Card 128 and IBM High Rate Wireless LAN Gateway.</td>
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#### NEW!
**IBM 32MB USB Memory Key**

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<td>22P5296</td>
<td>Carry presentations up to 32MB on your keychain with this unique, new storage option for access from any USB-equipped system. Also available: IBM 8MB USB Memory Key.</td>
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Get the tools that inspire success.

Request an IBM PC Guide today. Call 1 888 SHOP IBM.

1. Designed to be capable of receiving data at up to 56Kbps with compatible phone line and server equipment, and transmitting data at up to 31.2Kbps. Public networks currently limit download speeds to about 53Kbps. Actual speeds vary and are often less than the maximum possible.

2. Response times may vary. May exclude some holidays.

3. Requires Internet access account, available separately.

4. Requires compatible wireless-enabled peripherals, not included.

5. ThinkPad R Series models support ThinkPad Port Replicator only.

6. At processor speed.

7. For Mobile Intel Pentium III processors featuring Intel SpeedStep technology, this denotes maximum performance mode; battery optimization mode is approximately 80% of maximum performance mode.

8. GB equals 1,000,000,000 bytes when referring to hard disk drive capacity. Accessible capacity may be less.

9. Maximum memory varies depending on model and may require replacement of standard memory with optional maximum memory module.

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

11. These model numbers achieved a Ziff Davis BatteryMark Version 4.01 Battery Rundown Time of the times shown above. This test was performed without independent verification by Ziff Davis Media, Inc.; Ziff Davis makes no representations or warranties as to these test results. A description of the environment under which the test was performed is available at ibm.com/pcww/thinkpad/batterylife.html. Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning and other customer preferences.

12. Thickness may vary at certain points on the system.

13. Includes battery and optional travel bezel instead of standard optical drive in Ultrabay Plus; weight may vary due to vendor components, manufacturing process and options.


15. Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Please refer to ibm.com/pc/support and select “Notebooks and PC Companions” from the “Browse the Support Site” menu item or enter your machine type and model number for more information.

16. Some software may differ from its retail version (if any) and may not include user manuals or all program functionality. Warranty, service and support for non-IBM products are provided directly to you by third parties, not IBM. IBM makes no representations or warranties regarding non-IBM products. For non-IBM software, applicable third-party software licenses may apply.

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

18. For terms and conditions or a copy of the IBM Statement of Limited Warranty, call 1 800 772 2227 in the U.S. and in Canada, 1 800 426 2255. Battery covered by a separate, one-year limited warranty.

19. Registration is required at ibm.com/pc/support.

20. Available in those countries where IBM and IBM resellers sell and service ThinkPad products. Registration required. Service level is based on the standard service for ThinkPad notebooks in that particular country.

21. The customer may be asked certain diagnostic questions before a courier is sent. Your ThinkPad purchase includes this depot repair service, available in the U.S. during the warranty period. As of August 10, 2001, IBM alone offers an embedded data-encrypting security subsystem for transfer of operating systems or applications.

22. As of August 10, 2001, IBM alone offers an embedded data-encrypting security subsystem for notebook systems.

23. These upgrades are available for machines used for business, professional, or trade purposes rather than personal, family or household purposes. Subject to IBM ServicePac Maintenance Service Agreement. The customer may be asked certain diagnostic questions before a technician is sent.

24. IBM makes no warranties, express or implied, regarding ThinkPad Proven or WorkPad Proven products and services, including any implied warranties of merchantability or fitness for a particular purpose.

25. As an ENERGY STAR Partner, IBM has determined that this product meets the ENERGY STAR guidelines for energy efficiency. ENERGY STAR is a U.S. registered mark.

26. IBM reserves the right to change specifications or other product information without notice. This publication could include technical inaccuracies.

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