



IBM ThinkPad A Series notebooks



**Intel®
Innovative
PC Award
Winner**

Intel Corporation
ThinkPad A30p
Fall 2001

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 56K¹ V.92-ready modem on select models**
- **Rely on HelpCenter® support available worldwide, 24 hours a day, 7 days a week²**

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.

ThinkPad A Series features



1 UltraPort connector*

NEW!
2 IBM ThinkPad FlexView display*

3 Access ThinkPad

NEW!
4 Web navigation keys

NEW!
5 IBM Embedded Security Subsystem*

6 Two modular bays—
Ultrabay 2000 (left) and
NEW! Ultrabay Plus (right)

(Shown with standard DVD-ROM
and optional Ultrabay Plus Device Carrier
and Ultrabay Plus Numeric Keypad)

7 ThinkLight™

8 Integrated 802.11b wireless
technology with dual antenna
(select models) and integrated
Bluetooth wireless technology
(select A30p models)

9 Flexible docking options—
ThinkPad Port Replicator
and ThinkPad Dock

10 RJ-11 modem and RJ-45
Ethernet ports, IEEE 1394
connector* and S-video in*
and out

* A30p models only

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 online³ 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 performance⁴. **Integrated Bluetooth technology** moves you a step closer to cable-free computing.
- 9 **Flexible docking options**—common to ThinkPad X, T, R⁵ 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.

ThinkPad A Series specifications

Machine type	A30p: 2653 (66U, 65U, 64U, 63U)	A30: 2652 (4CU, 46U, 45U, 4BU, 44U, 43U)	A30: 2652 (3CU, 36U, 35U, 3BU, 34U, 33U)	A30: 2652 (2BU, 24U, 23U, 1BU, 14U, 13U, 1AU)
Processor/Level 2 cache⁶	NEW! ● at 1.2GHz/512KB	● at 1.13GHz/512KB	● at 1GHz/512KB	● 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	48GB ⁸ high-speed	30GB	30GB	20GB
Memory (std/max)⁹	128MB/1GB PC133 SDRAM	128MB/1GB PC133 SDRAM	128MB/1GB PC133 SDRAM	128MB/1GB PC133 SDRAM
Optical drive	CD-RW/DVD-ROM	8X ¹⁰ -2X DVD-ROM	8X-2X DVD-ROM	24X-10X CD-ROM
Video graphics (chip)	32MB SGRAM (ATI Mobility Radeon)	16MB SGRAM (ATI Mobility Radeon)	16MB SGRAM (ATI Mobility Radeon)	16MB SGRAM (ATI Mobility Radeon)
Communications	66U: 801.11b wireless, 56K ¹ modem*, 10/100 Ethernet, Bluetooth 65U: 802.11b wireless, 56K modem*, 10/100 Ethernet 64U, 63U: 56K modem*, 10/100 Ethernet	4CU, 46U, 45U: 802.11b wireless, 56K modem*, 10/100 Ethernet 4BU, 44U, 43U: 56K modem*, 10/100 Ethernet	3CU, 36U, 35U: 802.11b wireless, 56K modem*, 10/100 Ethernet 3BU, 34U, 33U: 56K modem*, 10/100 Ethernet	2BU, 1BU, 24U, 14U, 23U, 13U: 56K modem*, 10/100 Ethernet 1AU: 56K modem*
Battery type/battery life¹¹	Li-Ion/2.5hr	Li-Ion/3.2hr	Li-Ion/3.2hr	Li-Ion/3.2hr
Ports	RJ-11, RJ-45, 2 USB, serial, parallel, headphone, line-in, microphone, keyboard/mouse, external monitor, S-video out; A30p models only: 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
Keyboard	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			
Dimensions¹²	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 weight¹³/with optical drive	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

NEW! ● Mobile Intel[®] Pentium[®] III Processor-M

IPS=In plane switching (IBM ThinkPad FlexView display)

*56K V.92-ready modem

Software

Preloaded operating system¹⁴	2653—66U, 64U: W2000; 65U, 63U: WXP 2652—4CU, 4BU: W98; 46U, 44U: W2000; 45U, 43U: WXP 2652—3CU, 3BU: W98; 36U, 34U: W2000; 35U, 33U: WXP 2652—2BU, 1BU, 1AU: W98; 24U, 14U: W2000; 23U, 13U: WXP
Supported operating systems¹⁵	Windows XP, Windows 2000, Windows 98, Windows 95, Windows NT [®] 4.0, Red Hat Linux [®] , SuSE Linux, Turbo Linux, Caldera Linux
Included software¹⁶ (preloaded)	<ul style="list-style-type: none"> • Access ThinkPad <ul style="list-style-type: none"> - 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^{TM.17}
(downloadable)	<ul style="list-style-type: none"> • VERITAS RecordNow (A30p only) • IBM Backup and Restore • IBM Client Security Software 2.0 (security subsystem models only) • IBM Data Transfer
(license)	<ul style="list-style-type: none"> • Universal Manageability (UM ServicesTM) • Lotus[®] SmartSuite[®] Millennium (CD not included)

Comprehensive support included with your purchase

- Limited warranty of one or three years**
- Personalized Web-based support¹⁹
- International Warranty Service²⁰
- 24x7 toll-free hardware support² during the warranty period
- EasyServTM onsite pickup and delivery²¹

**See page 6 for additional warranty information¹⁸.

NEW! WXP=Microsoft[®] Windows[®] XP Professional W2000=Windows 2000 Professional W98=Windows 98 Second Edition

Manageability services²²

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/ss-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 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 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 for more information.

The first to integrate a security chip in a PC²³

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 Upgrades²⁴

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 for applicable terms and conditions or call your authorized reseller for additional information.

IBM Mobile and Wireless Services

Helps customers turn wireless technology into tangible business advantage (U.S. only). Visit ibm.com/services/its/us/mobilew for more information.

*See page 6 for additional warranty information¹⁸.

“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 partners²⁵. Proven products are tested, warranted and supported by the manufacturer to ThinkPad and WorkPad compatibility standards. Visit 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



*Tested, warranted and supported by manufacturer to ThinkPad Compatibility Standards.



*Tested, warranted and supported by manufacturer to WorkPad Compatibility Standards.

Customize your ThinkPad notebook

NEW!

ThinkPad Ultrabay Plus Numeric Keypad

22P7330



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.

NEW!

Bluetooth UltraPort Module from IBM

09N9811



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.

IBM Conference Room Data/Video Projector

0039-A01



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.

ThinkPad CD-RW/DVD Combo Ultrabay 2000 Drive

08K9572

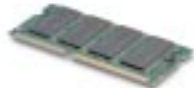


Combine two drives in one slim, form factor for low-cost, high-capacity read/write storage. Or, select from the expanding range of IBM ThinkPad Ultrabay 2000 devices, including: SuperDisk (LS-240), Zip 250MB, 8X/4X/24X¹⁰ Max CD-RW and 8X-3X DVD-ROM drives.

NEW!

IBM 128MB 133MHz Memory

19K4652



Boost performance without breaking the bank—add IBM memory. Modules are available in 64, 128, 256 or 512MB.

IBM High Rate Wireless LAN Access Point 500

09N9906



Add this “wireless bridge” 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.

NEW!

IBM 32MB USB Memory Key

22P5296



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.

ThinkPad Dock

2631-20U



Enjoy desktop expansion in a snap with the ThinkPad Dock, featuring cable management, a modular Ultrabay 2000, a half-size PCI Card slot, two USB ports and an integrated power supply.

Options by IBM offers a wide range of accessories and upgrades designed to work with your ThinkPad notebook. For a complete list of options and compatibility information, visit ibm.com/options (U.S.) or ibm.com/pc/ca/accessories (Canada).

Choose IBM today | Go to **ibm.com** or call 1 888 SHOP IBM to buy direct, locate an IBM reseller or for more information.



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- 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/pc/ww/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.
- ¹⁴ Delivered with Windows 98, Windows 2000 or Windows XP preloaded and a Recovery Partition on the hard disk drive.
- 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, call 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.
- ²² These data migration solutions cannot be used for transfer of operating systems or applications.
- ²³ As of August 10, 2001, IBM alone offers an embedded data-encrypting security subsystem on notebook systems.
- ²⁴ 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.
- ²⁵ 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.

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