

Family 2645+06 IBM ThinkPad 600E

IBM U.S. Sales Manual

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IBM U.S. Product Life Cycle Dates

Type Model	Announced	Available	Marketing Withdrawn	Service Discontinued	Replaced By
2645-4BU	1999/06/15	1999/06/22	-	-	-
2645-5BU	1999/06/15	1999/06/22	-	-	-
2645-8BU	1999/06/15	1999/06/22	-	-	-
2645-BAU	1999/06/15	1999/06/22	-	-	-

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Abstract

The IBM 2645 ThinkPad 600E offers the same great design, ease of use, and reliability that distinguished the first ThinkPad 600 systems.

Model Abstract 2645-4BU

The IBM 2645 Model 4BU has a 400 MHz Mobile Pentium II processor, 10.0 GB hard drive, 64 MB memory, 13.3 TFT, 1024 x 768 LCD, modem, 24X-10X CD-ROM, Windows 98 software #1, and U.S. English language support.

Model Abstract 2645-5BU

The IBM 2645 Model 5BU has a 400 MHz Mobile Pentium II processor, 10.0 GB hard drive, 64 MB memory, 13.3 TFT, 1024 x 768 LCD, modem, DVD drive, Windows 98 software #1, and U.S. English language support.

Model Abstract 2645-8BU

The IBM 2645 Model 8BU has a 400 MHz Mobile Pentium II processor, 10.0 GB hard drive, 64 MB memory, 13.3 TFT, 1024 x 768 LCD, modem, 24X-10X CD-ROM, Windows NT software #1A, and U.S. English language support.

Model Abstract 2645-BAU

The IBM 2645 Model BAU has a Mobile Pentium II 400 MHz processor with AGP, no HDD, no CDROM or DVD, 32 MB memory, 13.3 TFT, 1024 x 768 LCD, a modem, no software preload, and U.S. English language support.

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Highlights

ThinkPad 600E

The performance and portability; ingeniously designed for the way you work.

- | Sleek profile: 300 mm (11.8 in) x 240 mm (9.4 in) x 36.5 mm (1.4 in)
- | Weight with travel bezel is approximately 2.29 kg (5.04 lb)
- | Preinstalled Windows** 98 or Windows** NT 4.0
- | Easy access to information with Access ThinkPad
- | V.90 modem
- | Brilliant 337.8-mm (13.3-in) TFT display
- | Enhanced graphics enabling multiple monitor support
- | 24x-10x CD-ROM is standard on most models
- | Optional ThinkPad SelectaBase PC Card Enabler with advanced EtherJet(TM) feature
- | Optional Zip 100 MB drive
- | Sleek black design, full-sized keys on the keyboard, and TrackPoint* IV technology
- | Easy Internet connections with IBM Global Network Dialer and Netscape Communicator
- | Advanced system manageability
- | Model for IBM Business Partner -- PC, Authorized Assembler Program (AAP)
- | Three-year, limited warranty
- | HelpCenter* (800-772-2227)

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Description

Models of the ThinkPad 600E offer the same great design, ease of use, and reliability that distinguished the first ThinkPad 600 systems.

With its slim 36.5-mm (1.4-in) profile(1) and travel configurations weighing less than 2.29 kg (5.04 lb)(2), the stylish ThinkPad 600E is a truly perfect travel partner -- maximum power, minimum weight, ingeniously designed for the way you work.

Note: (1) Thickness may vary at certain points on the system.

Note: (2) Actual weight may vary depending on vendor components, or manufacturing process, or options. Weight includes battery and travel covers.

Latest Intel Technology:

Models feature the latest Mobile Pentium** II processor at 400 MHz(3).

- | Accelerated Graphics Port (AGP)
- | 256 KB on-board cache
- | Large 10.0 GB(4) hard disk drive
- | 64 MB(5) SDRAM The AAP models come standard with 32 MB of SDRAM
- | Integrated 56K V.90 modem(6)
- | DVD or CD-ROM drive, depending on model
- | Video out port (TV out) is standard on all 5Bx models worldwide. It allows the connection of the system to a TV set so that DVD movies can be viewed on the TV screen. It is not on the 4Bx or 8Bx models. The "x" is where the geography code, such as "U" for U.S., would be placed.

The Video out port is also standard on the AAP model BAU.

Note: (3) MHz only measures microprocessor internal clock speed, not application performance. Many factors affect application performance.

Note: (4) GB equals one billion bytes and MB equals one million bytes when referring to hard disk. Accessible capacity may vary.

Note: (5) Recognizes up to 288 MB of addressable memory in models with the Mobile Pentium II processor. Current available memory options allow memory expansion up to 288 MB using two 128 MB SDRAM SO DIMMs in the two available slots for memory expansion. To achieve the maximum memory of 288 MB, the 32 MB SO DIMM currently in one of the slots in models with 64 MB standard must be discarded.

Note: (6) The V.90 modem can receive data at up to 56 Kbps from an x2 or V.90 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.

Brilliant, Bright Display: 337.8-mm (13.3-in) (measured diagonally) TFT with 1024 x 768 resolution

Optimized Flexibility:

With the UltralimBay**, fast and easy warm swapping gives you the flexibility to configure the system with the components you need. Options include:

- | Diskette drive (FDD)
- | 24x-10x CD-ROM(7)
- | SuperDisk (LS-120)
- | Second battery (cold swap only)
- | Second hard disk drive of different capacities
- | IBM DVD UltralimBay Drive

Note: (7) Variable read rate. Actual playback speed will vary and is often less than the maximum possible.

Ease of Use:

Featuring online help, concise user's manuals, and intuitive icons on the keyboard, the ThinkPad 600E is one of IBM's easiest ThinkPad products to start up and operate.

Robust System Manageability:

- | Compliant with industry standard Desktop Management Interface (DMI)
- | Wake on LAN support via the optional SelectaDock III
- | Local and remote asset management and asset security via passwords and locks
- | Early detection of a hard drive failure
- | Wired for Management (WfM) baseline requirements for mobile systems

Versatile TrackPoint*

Press-to-Select and Release-to-Select features allow tapping of the TrackPoint pointing device to speed icon launches and reduce keystrokes.

ThinkPad 600E Features**Superior Security and Manageability**

- | Asset ID, an advanced radio-frequency based tool, secures and protects assets, keeps accurate inventories, and facilitates fast deployment of your ThinkPads into the enterprise. (Asset ID, using the ThinkPad RF-ID Antenna option, is available only on select AAP models.)
- | Supports Universal Management, a comprehensive set of superior, standards-based PC hardware manageability tools that work with, and complement, existing system management products
- | Complies with the industry standard Desktop Management Interface (DMI) 2.0
- | Designed to the Wired for Management (WfM) baseline requirements for mobile systems
- | Wake on LAN support via the optional SelectaBase 600, PC Card Enabler with Advanced EtherJet feature, or SelectaDock III and Wake on LAN network interface card
- | Local and remote asset management, and early detection of hard drive failure via the Universal Management Agent(TM)
- | Remote setup and low-level maintenance via IBM LANClient Control Manager(TM)
- | Asset and data security via multiple passwords and locks
- | Virus protection and easy operating system recovery

Multimedia

Some models include a DVD drive. DVD movie playback does not require complementary graphics hardware on ThinkPad 600E systems that have a DVD drive and Windows 98 installed. All ThinkPad 600E models with Windows 98 preinstalled can be upgraded to this level of multimedia support with the optional DVD drive.

LCD Display

The ThinkPad 600E models come with a 337.8-mm (13.3-in) (measured diagonally) TFT display with 1024 x 768 resolution.

Video Modes -- 600E (2.5 MB VRAM)

Resolution	LCD		External Monitor			
	TFT		85 Hz	75 Hz	70 Hz	60 Hz
640 x 480	16M		16M	16M	NA	16M
800 x 600	16M		16M	16M	NA	16M
1024 x 768	16M		16M	16M	16M	16M
1280 x 1024	NA		NA	NA	NA	256

Keyboard and TrackPoint with Enhanced Features

The keyboard has the familiar layout of a ThinkPad notebook with function keys that allow you to quickly access system functions such as power management control.

The TrackPoint with enhanced features incorporates the Press-to-Select and Release-to-Select function of the TrackPoint.

Just tap the TrackPoint to speed icon launches and help reduce keystrokes. The programmable center button enables fast scrolling of Web sites and documents or fast panning across wide spreadsheets. Switch to the innovative magnifying glass feature to enlarge screen views in any application.

Processor

Mobile Pentium II at 400 MHz plus 256 KB of on-board cache, and floating-point decimal provide exceptional performance.

Memory

The system has 64 MB of memory standard and recognizes up to 288 MB of addressable memory. Current available memory options allow memory expansion up to 288 MB using two 128 MB SDRAM SO DIMMs in the two available slots for memory expansion. To achieve the maximum memory of 288 MB in models with 64 MB standard, the 32 MB SO DIMM in one of the slots must be discarded.

AAP model comes standard with 32 MB of SDRAM.

PC Card

The Type III slot accommodates either two Type I, two Type II, or one Type III PC card. The slot supports the CardBus adapters(8) PC card and the Zoomed Video (ZV) adapter.

Note: (8) Currently available in DOS, Windows 3.1, Windows 95, and Windows 98

Storage

The customer-removable, installable hard drive is 10.0 GB standard. The optional SuperDisk (LS120), Zip 100 MB drive, and the ability to add a second hard drive in the UltralimBay provide an expanded choice of storage capability. The second hard drive option is backwards compatible with all ThinkPad 600 models. The 1.44 MB diskette drive (FDD) comes standard and can be plugged directly into the ThinkPad 600E UltralimBay or attached externally for added flexibility.

Audio

Full-duplex audio on the system board and the integrated microphone allow voice annotation and audio. The system is equipped with audio in/out jacks for stereo speakers, headphone, or external microphone. The system supports Sound Blaster audio applications.

Video

Models with Windows 98 support a system display and an external monitor simultaneously while different applications are on each screen. Move the cursor from one screen to the other and drag and drop items from the application on one screen to the application on the second screen.

Infrared

The system has one fast (up to 4.0 Mbps) IR transceiver for wireless file and data transfer and printing. The ThinkPad 600E is designed for compliance with the Infrared Data Association (IrDA) IR data link specification Version 1.1 (up to 4 Mbps).

Other Features

The ThinkPad 600E systems have the full complement of ports (enhanced parallel, serial, external display, and USB port). The USB port, which connects external drives, is supported only by Windows 98 or Windows 95 OSR2.1, or later. Video out port (TV out) is standard on all 5Bx models worldwide and AAP model BAU. The FDD external attachment port is standard on all 600E models. In addition, the 240-pin connector supports these docking solutions:

- | SelectaBase 600
- | SelectaDock III via the SelectaBase 600

Docking Solutions

- | Simple port replication and cable management with the SelectaBase 600
- | Enhanced port replication when the PC Card Enabler is attached to SelectaBase 600 to provide two PC CardBus slots
- | Desktop function and manageability via the SelectaBase 600 and SelectaDock III
- | ThinkPad 600E and SelectaBase 600 are backwards compatible with the SelectaDock I and II

Software

Non-IBM Software

The non-IBM software programs listed in this section are licensed to you under the non-IBM manufacturer's, supplier's, or publisher's terms and conditions. The non-IBM manufacturers, suppliers, or publishers are responsible for providing any service or support associated with these programs. The descriptions of these programs were obtained from information made available by these companies to the general public. IBM does not warrant these products. Some software may differ from its separately available version (if available), and may not include user manuals or all program function.

Software That May Be Included or Preloaded on the System:

U.S., and Canada English Machines Software #1 (Windows 98)

- | Microsoft Windows 98
- | ThinkPad Utilities
- | User's Manual
- | Ergonomics
- | IBM Registration
- | Ring Central Fax
- | Puma Intellisync97
- | IBM Global Network Dialer
- | Netscape Communicator
- | Lotus SmartSuite Millennium
- | Universal Management Agent
- | ThinkPad on the Net
- | ConfigSafe
- | Norton AntiVirus (OEM version)
- | Mediamatics DVD Express - only on systems with DVD drive
- | IBM Update Connector
- | Access ThinkPad

U.S. And Canada Machines Software #1A (Windows NT)

- | Microsoft Windows NT 4.0
- | ThinkPad Utilities
- | User's Manual
- | Ergonomics
- | IBM Registration

- | Puma Intellisync97
- | IBM Global Network Dialer
- | Netscape Communicator
- | Lotus SmartSuite Millennium
- | Universal Management Agent
- | ThinkPad on the Net
- | ConfigSafe
- | Norton AntiVirus (OEM version)
- | IBM Update Connector
- | Access ThinkPad
- | SystemSoft CardWizard

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Product Positioning

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Models

Model Summary Matrix

Model	Processor	Hard Drive	Memory	DVD or CD-ROM Drive	LCD	Display	Pre-load Software	Language Support
4BU	Pent.II 400MHz	10.0GB	64MB	CD	13.3	TFT(1024x768)	#1	U.S. Eng.
5BU	Pent.II 400MHz	10.0GB	64MB	DVD	13.3	TFT(1024x768)	#1	U.S. Eng.
8BU	Pent.II 400MHz	10.0GB	64MB	CD	13.3	TFT(1024x768)	#1A	U.S. Eng.
BAU	Pent.II 400MHz	NONE	32MB	NO	13.3	TFT(1024x768)	NONE	U.S. Eng.

Maximum

Not applicable.

Customer Setup (CSU)

The IBM ThinkPad 600E models System Units are Customer Setup.

All options / accessories are designed to be customer installable.

Devices Supported

Compatibility

The IBM ThinkPad 600E models is designed to be compatible with peripherals and software products that run on other IBM systems.

For the latest information on options available for the ThinkPad 600E models and other ThinkPad notebooks, please see our Web page at

www.pc.ibm.com/options

In the USA and Canada Fax Back service is available at 1-800-IBM-3395 in addition to the Web page.

In addition to options offered directly by IBM, ThinkPad Proven vendor products have been certified by the vendor to meet IBM specifications. For a list of these products, please see the Web site at

www.pc.ibm.com/thinkpad/proven

PC CARD

IBM ThinkPad 600E models conforms to the PC Card Standard 95. The new PC Card Standard encompasses both the former 16-bit Release 2.1 card standard and the new 32-bit CardBus(1) card. Other PC CARD adapters that comply with the PC Card Standard may also function, but have not been tested by IBM.

Note: (1) Presently available in DOS 6.0 or higher, Windows 3.1, Windows 95, and Windows 98.

Optional Features

Please request that your local IBM representative provide the latest listing of IBM options or catalog of options that are available.

Listing of announced optional features that work with the IBM ThinkPad 600E

Note: Most of the following part numbers are USA numbers.

Options for IBM ThinkPad 600E models

Description -----	Order Number -----
IBM ThinkPad UltralimBay Battery	02K6504
IBM ThinkPad UltralimBay HDD Adapter	05K5336
IBM ThinkPad SuperDisk (LS120) UltralimBay Drive	20L1929
IBM ThinkPad 600/570 Zip 100 MB UltralimBay Drive	37L1507
IBM ThinkPad PC Card Enabler with Advanced EtherJet Feature	05K4820
IBM ThinkPad SelectaBase PC Card Enabler	83H6741
IBM ThinkPad Ultralim 56W AC Adapter	02K6545
IBM ThinkPad Ultralim 56W AC Adapter (Japan)	02K6544
IBM ThinkPad 56W DC Adapter	02K3381

IBM ThinkPad 600 Li-Ion Battery	12J2464
IBM ThinkPad SelectaBase 600	12J2467
IBM ThinkPad SelectaDock III	3547003
IBM ThinkPad External Battery Charger	02K6499
IBM ThinkPad 24X-10X Internal CD-ROM Drive	05K9122
IBM Portable 20X-8X CD-ROM Drive	1969010
(For IBM US, No Longer Available as of September 21, 1999)	
IBM Portable 20X-8X Stereo CD-ROM Drive	1969011
(For IBM US, No Longer Available as of November 9, 1999)	
IBM ThinkPad 6.4GB Hard Disk Drive	02K0518
IBM ThinkPad 10GB Hard Disk Drive	36L9293
IBM DVD UltrastlimBay Drive	05K8890
32MB NP SDRAM SO DIMM 3.3V memory upgrade	76H0294
64MB NP SDRAM SO DIMM 3.3V memory upgrade	20L0241
128MB NP SDRAM SO DIMM 3.3V memory upgrade	01K1150

IBM ThinkPad Mobile Mouse	26L3670
IBM Sleek Black Mouse	28L3673
Smart Card Security Kit	10L7333
(For IBM US, No Longer Available as of November 30, 1999)	

IBM ThinkPad 600E Vendor Software Compatibility

IBM tests a large number of commonly used and available applications for compatibility with its ThinkPad systems, using supporting operating systems and configurations. In general the user can expect that most vendor applications designed to run on supported operating systems and Intel-compatible system architectures should be compatible with a ThinkPad system. Some configurations, however, may not be compatible.

IBM does not warrant or support vendor software products, nor guarantee compatibility of those products with IBM systems. Please refer to the applicable warranty and license terms provided by the respective vendors.

Model Conversions

None.

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Technical Description

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IBM ThinkPad 600E models systems are small, light-weight, battery or AC-operated portable notebook computers. The IBM ThinkPad 600E new models computers are convenient to use and carry, and are a general business solution for the mobile, field or desk oriented

professional.

The IBM ThinkPad 600E models system comes preinstalled with Windows 98 and selected applications or Windows NT and selected applications.

The IBM ThinkPad 600E models system has the following standard and optional features:

Microprocessor

- | Mobile Pentium II at 400 MHz(1), with 256 KB of on-board cache, and floating-point decimal, providing exceptional performance.

Note: (1) MHz only measures microprocessor internal clock speed, not application performance. Many factors affect application performance.

Memory Devices

- | The system has 32 or 64 MB of memory standard, depending on model. The IBM ThinkPad 600E notebook is also designed to recognize up to 288 MB of addressable memory in the models with the Mobile Pentium II processor. Current available memory options allow memory expansion up to 288 MB using two 128 MB SDRAM SO DIMMs in the two available slots for memory expansion. In order to achieve the maximum memory of 288 MB, the 32 MB SO DIMM that is currently in one of the slots of models that come with 64 MB will have to be discarded.

ThinkPad UltralimBay

The ThinkPad UltralimBay, also standard with the system, is an intelligent bay that switches its pinout signals to allow the installation of standard and optional features, such as, an FDD or 24X-10X variable speed CD-ROM, or SuperDisk (LS120), in what would normally be just the FDD bay. The UltralimBay can hold a second HDD (requires the second HDD adapter), or a second battery or a SuperDisk (LS120)

PCI bus

PCI bus supports 32-bit transfers for faster performance

Storage Devices

- | 10.0GB hard disk drive is standard.
- | Optional hard disk drives are available from IBM.

2.5-inch 10.0GB (10,000 million bytes) Drive Specifications(2):

- | Minimum Formatted Capacity(3): 10,000 MB(4) or 10.0GB(4)
- | Bus Interface: ATA

Note: (2) Different hard disk drives may have different specifications. Since IBM occasionally changes hard disk drive componentry, these specifications are subject to change without notice. Contact your IBM representative for more details.

Note: (3) Total user accessible capacity may be less.

Note: (4) MB when used with hard disk or diskette drive capacity indicates 1,000,000 bytes. MB when used with system memory, such as option cards, indicates 1,048,576 bytes. GB when used with hard disk drive capacity indicates 1000 Million Bytes.

Beautiful bright display: this model has a 13.3-inch (measured diagonally) TFT with 1024 x 768 resolution.

VIDEO MODES
600E (2.5 MB VRAM)

Resolution	LCD		External Monitor			
	TFT		85Hz	75Hz	70Hz	60Hz
640 x 480	16M		16M	16M	N A	16M
800 x 600	16M		16M	16M	N A	16M
1024 x 768	16M		16M	16M	16M	16M
1280 x 1024	N A		N A	N A	N A	256

Keyboard

The system is Euro hardware ready.

The TrackPoint with enhanced features is a part of this keyboard.

- ┆ 85 key keyboard with imbedded numeric keypad and integrated TrackPoint* with enhanced features, which emulates all the mouse functions. It sits between the "G" and "H" keys.
- ┆ 86 key keyboard with imbedded numeric keypad and integrated TrackPoint* with enhanced features.
- ┆ 90 DBCS key keyboard with imbedded numeric keypad and integrated TrackPoint* with enhanced features for Japanese systems.
- ┆ The keyboard has a "Fn key" which is a special key and is located in the lower left corner. The Fn key allows the user to instantly activate the following operational features by pressing the Fn key and a designated function key:
 - ┆ Battery power status display
 - ┆ Standby/Suspend/Hibernation
 - ┆ Switching between Display devices
 - ┆ Power management mode
 - ┆ Sound volume control

External Interface

- | Video out port (TV out) is standard on all 5Bx models worldwide and AAP model BAU.
- | Universal Serial Bus (USB) port for connecting external drives. The USB port is only supported by Windows 98 or Windows 95 OSR2.1 or later.
- | Serial Connector (RS-232D) -- Serial device port for connecting serial devices such as an external Modem.
- | Parallel Connector -- Parallel device port for connecting devices such as printers.
- | Infrared sensor -- Provides a wireless connection to devices, such as other notebook and desktop Personal Computers, via IR, that are equipped with the proper IR transceiver. These systems have been designed for compliance with the IrDA (Infrared Data Association) data link specification version 1.1 (up to 4.0Mbps), and IRLMP, IRLAP, and IR physical signaling. Uses include transferring files, etc.
- | Stereo audio jacks -- Provides for the connection of external stereo speakers/headphones and microphone and can provide SRS 3D sound.
- | External Display Connector -- External display port for connecting one of the supported displays that may be used in desktop environment instead of the LCD that is standard with the system. Also supporting an attachment of ISO 9241-3 enabled IBM monitors. Dual Display of LCD and an external display is also supported.
- | PC CARD slots -- The IBM ThinkPad 600E new models system, conforms to the PC Card Standard which incorporates the CardBus(1) PC Card as well as Card and Socket Services Specification release 2.1. The ZV (Zoomed Video) Adapters are also supported. Other PC CARD adapters that comply with this standard may also function, but have not been tested by IBM.

Note: (1)Presently available in Windows 3.1, Windows 95, and Windows 98.

- | System Expansion Connector -- Provides connection to the IBM Docking Solutions:
 - | IBM SelectaBase 600
 - | IBM SelectaDock III via the IBM SelectaBase 600

AC Adapter

The AC adapter is an alternating current (AC) to direct current (DC) converter to supply the necessary power to the computer. The AC adapter also charges the battery pack when it is installed in the computer.

STANDARD BATTERY SHIPPED WITH THESE SYSTEMS

Li-Ion Battery Pack

- | The Li-Ion Battery Pack is also an optional feature for the 600E in addition to being

shipped with it.

- | The battery pack is an internal power source to the computer when the AC adapter is not available. The battery pack is rechargeable and is charged using the AC adapter with the system.
- | The user can determine how much battery power remains by using the Fuel-Gauge ThinkPad utility program. This displays the percent charge remaining, whether there is one or two batteries in the system.

PC Cards which do not support the power management function may cause the shorter battery operation hours.

IBM ThinkPad 600E models

Standard battery that is shipped with this system.

The Li-Ion battery approximate operation hours and charging hours are:

	(13.3-inch TFT)
Power off/suspend charging(2)	1.5 - 2.5 hrs
Charging during operation(1)(2)	2.0 - 3.0 hrs
Battery Operation(1)	3.0 hours
Battery Operation(1)	5.5 hours with two batteries

Note: (1) Results obtained using BAPCo (Business Applications Performance Corporation) SYSMark Benchmark test. Battery life will vary based on many factors including screen brightness, applications, features, power management, battery conditioning and other customer preferences.

Note: (2) Recharge time will also vary.

Physical Specifications

ThinkPad 600E with 337.8-mm (13.3-inch) TFT display

Weight is approximate.

- | Width: 300 mm (11.8 in)
- | Depth: 240 mm (9.4 in)
- | Height: 36.5 mm (1.4 in)
- | Weight: 2.29 kg (5.04 lb) with Li-Ion battery pack and weight saver bezel only

Accessories

- | Li-Ion battery pack: 310 g (0.69 lb)
- | FDD: 210 g (0.45 lb)

- ┆ AC adapter (2-pin or 3-pin): 360 g (0.795 lb)
- ┆ Power cord for AC adapter: Approximate weight is 90 g (0.19 lb)
- ┆ DVD drive: 345 g (0.76 lb)

Note: Actual specifications and weights may vary based on features, vendor components, or manufacturing processes.

Electrical Specifications

- ┆ Universal AC adapter (56 W)
 - ┆ Input is 100/240 V AC, 1.3/0.70 A, 50/60 Hz
 - ┆ Output is 16 V DC, 3.5 A
- ┆ Li-Ion battery pack: 10.8 V, 3.2 AH, 6 cell/pack

Heat Dissipation

191 Btu/hr maximum

Heat Emissions

56 watts maximum

Air Temperature for Shipping and Storage

-20 degrees to 60 degrees C (-4 degrees to 140 degrees F)

Acoustic Noise Level

Class 3D (office environment)

- ┆ Sound pressure level (operator position): 40 dB (operating)
- ┆ Sound power level: 5.1 Bels (operating), 4.8 Bels (idling)

Note: The noise emission level stated is the declared (upper limit) sound power level, in Bels, for a random sample of machines, typically configured, and operating in idle mode, for example, powered on, but no DASD read/write or other I/O activity. All measurements made in accordance with ANSI S13.30, and reported in conformance with ISO 9296.

Operating Environment

ThinkPad computers are designed, built, and tested for high quality and reliability. When used properly in standard business environments, a ThinkPad system should be a reliable computing asset for many years. However, harsh environments and abuse can damage ThinkPads since they are not intended to withstand extreme temperatures, dust, shock, or other severe physical environments. ThinkPad systems should not be used in unsuitable environments. For example, a ThinkPad system should not be used in non-stationary environments, such as in-vehicle installations, without additional casing or shock-dissipation. IBM warrants that the ThinkPad will conform to its Official Published Specifications when used in a suitable physical operating environment.

For information on rugged computers available from IBM, contact your IBM industry specialist or visit:

<http://www.networking.ibm.com/wireless>

Air Temperature

0 to 8,000 ft:

- | Operating: 5 degrees to 35 degrees C (41 degrees to 95 degrees F) (without diskette)
- | Operating: 10 degrees to 35 degrees C (50 degrees to 95 degrees F) (with diskette inside unit)
- | System off: 5 degrees to 43 degrees C (41 degrees to 110 degrees F)
- | Storage/shipment: -20 degrees to 60 degrees C (-4 degrees to 140 degrees F)
- | Wet bulb (maximum): 29.4 degrees C (85 degrees F)

8,000 to 10,000 ft:

- | Operating: 5 degrees to 31.3 degrees C (41 degrees to 88 degrees F) (without diskette)
- | Operating: 10 degrees to 31.3 degrees C (50 degrees to 88 degrees F) (with diskette inside unit)
- | System off: 5 degrees to 43 degrees C (41 degrees to 110 degrees F)
- | Storage/shipment: -20 degrees to 60 degrees C (-4 degrees to 140 degrees F)
- | Wet bulb (maximum): 25.7 degrees C (78 degrees F)

Note: The maximum temperature when the system is on is linearly decreased from 8,000 ft to 10,000 ft.

Relative Humidity

- | Operating: 8% to 95% (without diskette)
- | Operating: 8% to 80% (with diskette inside unit)
- | Storage/shipment: 5% to 95%

Altitude

10,000 ft maximum (3,048 m)

Agency Approvals

System Unit

- | FCC Class-B Certified to comply with FCC Rules, Part 15
- | VCCI CLASS B
- | CISPR22B
- | UL-1950
- | CSA C22.2 No. 950
- | NOM
- | UK-PTT
- | JATE

- | SASO
- | IEC950
- | CCIB (for China)
- | BCIQ (for Taiwan)
- | ACA (Australia)
- | RSF449 (New Zealand)
- | MPR-II (Sweden)
- | CE Mark

Limitations

For a list of tips about running various versions of operating systems, visit the IBM electronic support site at:

<http://www.pc.ibm.com/support>

Select Notebooks and PDA Support, ThinkPad 600E, and Hints and Tips.

- | Although you can upgrade the HDD, it is not designed to be removed and reinserted on a regular basis. Repeated and frequent removal, for purposes other than to upgrade for greater capacity, can cause damage to the system. The UltralimBay HDD adapter is designed to provide this flexibility with a second HDD in the UltralimBay.
- | The system must be in hibernated or "power-off" mode when changing either the main battery or the second battery.
- | Screen expansion (Fn+F8) does not cover the full display screen, leaving a small black border around the edge of the display.
- | PC card modems in SelectaBase PC Card Enabler do not support Ring Indicator (RI) resume. This limitation is not applicable to CardBus and the internal modem in the system.
- | 56 Kbps modem support is available only for Windows 95, Windows 98, and Windows NT 4.0
- | Cardbus and 3270 PCMCIA cards are supported with SelectaDock III, SelectaBase PC Card Enabler, and PC Card Enabler with Advanced Etherjet. They are not supported with SelectaDock I or II.
- | UltraBay(TM) options are designed for SelectaDock I/II/III. UltralimBay options for the ThinkPad 600 do not fit in SelectaDock I/II/III.
- | TV out support is available only in Windows 98, Windows 95, and Windows NT and in graphics display mode only.

Windows 95 Limitations

Remote shutdown during standby in Windows 95 via the network management software hangs while showing the screen, "Please wait while your computer shuts down."

OS/2 Warp Version 4.0 Limitations

- | CardBus PC Cards and ZV Cards are not supported.
- | The OS/2 native mouse driver does not work with ThinkPad 600E. The TrackPoint driver must be used.
- | When installing OS/2 Version 4.0 on a hard disk with more than 4.3 GB capacity, use the latest installation diskette available on the IBM Web site.
- | TrackPoint Scrolling function is not supported in a WIN-OS/2 session.
- | SelectaDock I and II require FixPack 6, or later.

Windows NT Limitations

- | Multifunction PC cards, boot from PC card HDDs, and ZV cards are not supported with Windows NT 4.0.
- | When using an IBM PC token-ring card, use the token-ring device driver IBM provides, not the Microsoft PC Card token-ring driver.

Hardware Requirements

Not applicable.

Software Requirements

The following operating systems support the ThinkPad 600E. Refer to the **Limitations** section for support issues unique to each operating system.

- | PC DOS 2000
- | OS/2 Warp Version 4 (with FixPack 8, or later)
- | OS/2 Warp Version 4, Japanese (with FixPack 8, or later)
- | MS-DOS(2) Version 6.22
- | Windows 98
- | Windows 95
- | Microsoft Windows for Workgroups 3.11
- | Windows NT Workstation 4.0(1)
- | Windows NT Workstation 4.0 Japanese(1)

Note: (1) For information about Windows NT Workstation 4.0 support, refer to:

- | PC Company BBS
- | <http://ftp.pc.ibm.com>

- | ThinkPad Forum on CompuServe

Note: Previous versions of these operating systems are not supported: PC DOS 7.0, Windows 3.0, MS-DOS 6.0, OS/2 Version 3.0, Windows NT 3.51, and so on.

Operating systems other than those preinstalled on the systems may not provide full feature functionality. To view considerations or a listing of Service Hints and Tips by operating system visit:

<http://www.pc.ibm.com/support>

- | In the search field at the top of the screen enter a four-digit machine type, such as 2645.
- | Under Search Results click on Product Information.
- | Click on a heading, such as Considerations for Windows 98, to see a list of considerations or service hints and tips for your machine type.

The following IBM system software is supported:

- | OS/2 LAN Server Entry Version 4.0(2)
- | OS/2 LAN Server Advanced Version 4.0(2)

Note: (2) Client function only was tested.

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Publications

The following publications and diskettes are available for separate purchase.

To order, call the IBM Software Delivery and Fulfillment (SDF) Hotline at 800-879-2755.

The appropriate user's guide will be shipped with each system.

Description	Order Number
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IBM ThinkPad 600E Technical Reference	(1)
IBM ThinkPad 600E User's Guide Supplement	S46L-3601
IBM ThinkPad 600E User's Guide	S27L-8078
IBM ThinkPad 600E Setup Guide	S27L-8076
IBM ThinkPad 600E Parts Check List	S46L-3579
IBM ThinkPad 600E Quick Reference and Service Information Guide	S27L-8075
ThinkPad 600E Notebooks Specification Sheet(1)	G221-6144

Note: (1) Available on the Web at:

<http://www.pc.ibm.com/thinkpad>

The Technical Reference is for programmers, engineers, and others who want to understand the ThinkPad 600 family system unit in greater detail. The publication includes functional specifications, hardware specifications, and pinouts for peripheral connectors.

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[Features -- Specify/Special/Exchange](#)

[↓ No Charge Specify Codes](#)

[↓ Special Feature Codes -- Chargeable](#)

[↓ Feature Exchanges](#)

No Charge Specify Codes

None.

Special Feature Codes -- Chargeable

Note: Preloads are described in the Description sections of this document.
IBM U.S. and Canada English Machines

Description -----	Order Number -----	Software #1 (Windows 98)	
		Machine Type -----	Model -----
ThinkPad 600E (10.0 GB, 400 MHz Mobile Pentium II processor, 64MB, 24X-10X CD-ROM, 13.3 TFT 1024X768, Modem, Windows 98)	26454BU	2645	4BU

ThinkPad 600E (10.0 GB, 400 MHz Mobile Pentium II processor, 64MB, DVD drive, 13.3 TFT 1024X768, Modem, Windows 98)	26455BU	2645	5BU
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Description -----	Order Number -----	Software #1A (Windows NT)	
		Machine Type -----	Model -----
ThinkPad 600E (10.0 GB, 400 MHz Mobile Pentium II processor, 64MB, 24X-10X CD-ROM, 13.3 TFT 1024X768, Modem, Windows NT)	26458BU	2645	8BU

Description	No Software - AAP model	Order Number	Machine Type	Model
ThinkPad 600E (NO HDD, CD-ROM, or DVD, 400MHz Mobile Pentium II processor, 32MB, 13.3 TFT 1024x768, Modem No Preload - AAP model		2645BAU	2645	BAU

Authorized Assembler Program (AAP) Information

The approved non-standard configurations that can be created by using combinations of the IBM Thinkpad 600E open bay model and the OBI options are orderable by other resellers from the IBM Business Partners that are Authorized Assemblers. The hardware and software reference numbers are:

Hardware Reference Number	Description
2645DAA	AAP BAU 6.4 GB,24X-10X CDROM
2645DAB	AAP BAU 6.4 GB,64MB Mem,24X-10X CDROM
2645DAC	AAP BAU 6.4 GB,24X-10X CDROM,RFID
2645DAD	AAP BAU 6.4 GB,64MB Mem,24X-10X CDROM,RFID
2645DAE	AAP BAU 6.4 GB,DVD ROM
2645DAF	AAP BAU 6.4 GB,64MB Mem,DVD ROM
2645DAG	AAP BAU 6.4 GB,DVD ROM,RFID
2645DAH	AAP BAU 6.4 GB,64MB Mem,DVD ROM,RFID
2645DAI	AAP BAU 6.4 GB,LS 120 DRIVE
2645DAJ	AAP BAU 6.4 GB,64MB Mem,LS 120 DRIVE
2645DAK	AAP BAU 6.4 GB,LS 120 DRIVE,RFID
2645DAL	AAP BAU 6.4 GB,64MB Mem,LS 120 DRIVE,RFID
2645DBA	AAP BAU 10.0GB,24X-10X CDROM
2645DBB	AAP BAU 10.0GB,64MB Mem,24X-10X CDROM
2645DBC	AAP BAU 10.0GB,24X-10X CDROM,RFID
2645DBD	AAP BAU 10.0GB,64MB Mem,24X-10X CDROM,RFID
2645DBE	AAP BAU 10.0GB,DVD ROM
2645DBF	AAP BAU 10.0GB,64MB Mem,DVD ROM
2645DBG	AAP BAU 10.0GB,DVD ROM,RFID
2645DBH	AAP BAU 10.0GB,64MB Mem,DVD ROM,RFID

2645DBI AAP BAU 10.0GB,LS 120 DRIVE
 2645DBJ AAP BAU 10.0GB,64MB Mem,LS 120 DRIVE
 2645DBK AAP BAU 10.0GB,LS 120 DRIVE,RFID
 2645DBL AAP BAU 10.0GB,64MB Mem,LS 120 DRIVE,RFID

Operating System Pub Pack Description -----	Order Number -----
AAP Windows 98/95 Pub Pack	28L3424
AAP Windows Workstation NT Pub Pack	28L3426
AAP IBM PC DOS 2000 Proof of Entitlement	10L5763
AAP IBM OS/2 Warp Pub Pack (License only)	06J0506

Feature Exchanges

None.

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Accessories

None.

Customer Replacement Parts

The IBM ThinkPad 600E models System Units are Customer Setup.

All options / accessories are designed to be customer installable.

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Machine Elements

None.

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Supplies

None.

Diskettes

None.

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