

See footnotes for important warranty information  
US models announced October 7, 2003  
US models withdrawn effective July 2004

# IBM® ThinkPad® T41 (Education) - withdrawn

Created by IBM PC Institute  
Personal Systems Reference (PSREF)

Type-model	Processor	Speed GHz	Memory	Screen	Graphics controller	Disk GB <sup>8</sup>	Optical	Mini PCI Comm Bay wireless	CDC modem/ Bluetooth™	Ethernet on planar	Battery Security chip	Battery cells	Workhorse (W) or Global (G) Avail Preload or Entry (E)	date				
2373-4JU	Pentium® M	1.5	512MB	14.1" XGA	7500	30GB	Combo	11a/b/g Wi-Fi <sup>32</sup>	Modem	Gigabit	Yes	6	XP Pro	No	Apr 2004			
2373-4HU	Pentium M	1.6	512MB	14.1" XGA	7500	40HS	Combo	11a/b/g Wi-Fi	Modem	Gigabit	Yes	6	XP Pro	No	Oct 2003			
2373-4KU	Pentium M	1.7	512MB	14.1" XGA	7500	40HS	Combo	11a/b/g Wi-Fi	Modem	Gigabit	Yes	6	XP Pro	No	Apr 2004			
These educational models of the ThinkPad T41 notebook are available only to public or private K-12 (or higher) accredited schools organized and operated exclusively for educational purposes for use by qualified students and/or teachers. This model for education is for sale direct from IBM or through an Authorized Education Reseller. The model or models for education are not available for resale to any other organization or individual.																		
Positioning	Perfect balance of performance and portability; two-spindle system										SOFTWARE <sup>14</sup>							
Processor	Intel® Pentium® M Processor 1.5, 1.6, or 1.7GHz with enhanced Intel SpeedStep™ technology <sup>1</sup> and 400MHz system bus										Windows XP Professional							
L2 cache	1MB / on die (at processor speed) / ECC										- Microsoft® Windows® XP Professional <sup>20</sup>							
Memory	512MB standard / 2GB max <sup>7</sup> / PC2700 333MHz DDR1 (DDR-SDRAM) / non-parity / CL2.5 / two 200-pin SO-DIMM sockets / std mem in one socket / one socket available										✧ Disk-to-Disk Recovery (in hidden protected area)							
Diskette drive	None standard / use optional USB-based diskette drive										Preloaded							
Combo	DVD-ROM/CD-RW / 16X/10X/24X/8X <sup>21</sup> speed / removable from Ultrabay™ Slim										• Access IBM							
Ultrabay Slim	One modular bay for interchangeable devices (right side) / 9.5mm high bay										• Access Connections							
Disk	30GB <sup>8</sup> (4200 rpm) or 40GB HS (5400 rpm), 9.5mm high / removable and upgradable / 9.5mm high bay / supports 2nd disk with optional HDD Adapter in Ultrabay Slim / IBM Hard Disk Drive Shock Absorber / IBM Active Protection System (shock protection)										• Adobe Reader							
Display	14.1" (358.1mm) XGA (1024x768) TFT color / Active Matrix / 150 nits / one latch to unlatch and open with one hand										• IBM Rapid Restore™ Ultra							
Graphics	ATI® MOBILITY™ RADEON® 7500 / AGP 4X / 32MB DDR1 (DDR-SDRAM)										• IBM RecordNOW and IBM Drive Letter Access (combo models)							
Graphics external	External monitor support via analog DB-15 connector / up to 2048x1536x16.7M at 75Hz										• InterVideo WinDVD (combo models)							
Keyboard	87-key / Access IBM button / palm rest / pitch: 19mm; stroke: 2.5mm (std-size keys)										• Norton AntiVirus (OEM edition)							
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar <sup>13</sup> , magnifying glass / UltraNav™ multi-pointing system / touch pad below keyboard / Tap Zones										• PC-Doctor™							
Touch pad	Illuminates the keyboard to improve visibility in low-light conditions										• ThinkPad Utilities							
ThinkLight™											• IBM Update Connector™ <sup>15</sup>							
Dimensions <sup>3</sup>	(WxDxH): 12.2" x 10.0" x 1.0-1.2"; 311mm x 255mm x 26.6-31.4mm										Downloadable							
Weight <sup>2</sup>	with optical drive and battery: 4.9 lbs (2.22 kg)										• IBM Director Agent							
Case material	Magnesium composite in the top cover, titanium-reinforced CFRP in bottom cover										• Software Delivery Assistant							
Battery - type	Lithium Ion 6-cell / intelligent / supports unique 2nd battery in Ultrabay Slim										• System Migration Assistant							
Battery - life <sup>10</sup>	4HU/4KU: 4.7 hr; 4JU: 4.9 hr; Optional 9-cell: 7 hr; 9-cell plus Ultrabay Slim batt: 9 hr										• Client Security Software (for security chip)							
Architecture	Intel 855PM chipset / 82855PM Memory Controller Hub (MCH-M) / 82801DBM ICH4-M I/O Controller Hub (ATA-100 EIDE, PCI bus, ethernet MAC, Low Pin Count [LPC] interface, USB, [Bluetooth]) / PCI bus 2.2 32-bit, 33MHz (TI® PCI4520A CardBus controller, Mini PCI, external expansion) / LPC bus 33MHz (security chip; PC87392 Super I/O for diskette, parallel, infrared, [docking-based ports])										License (CD not included)							
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / integrated door										- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client							
Ports	Two USB (Version 2.0) / parallel / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) / no keyboard or mouse or serial ports (use USB)										Universal 72 watt AC adapter							
Video out	S-video out port (TV out) / one 4-pin industry standard connector										Asset ID™ <sup>34</sup> (system-specific info in chip accessed over network)							
Wireless antenna	UltraConnect™ Antenna built into the display cover for optimal wireless signal reception										PC 2001-compliant							
Mini PCI	One Mini PCI type III slot (Communications Bay) / customer upgradable										ACPI 1.0b and 2.0-compliant							
11a/b/g Wi-Fi <sup>32</sup>	11a/b/g Wi-Fi <sup>32</sup> wireless <sup>4</sup> , Mini PCI, Atheros™ AR5001X+ chipset										CIM and DMI 2.0-compliant							
CDC	One Communications Daughter Card (CDC) socket / customer accessible										PXE 2.0-compliant							
Modem	56K <sup>6</sup> V.90 (V.92-designed <sup>29</sup> ) modem in CDC / Agere® chipset										IBM ImageUltra™ Services available							
Bluetooth™	None										IBM Rapid Restore Ultra available to protect software image and data							
Ethernet	Gigabit ethernet on systemboard / Intel 82540EP chipset (MAC/PHY) / PXE										International Warranty Service <sup>17</sup>							
Audio support	Soft audio / ICH AC97 controller / DirectSound® support / AD1981B AC97 codec / stereo speakers / 1 watt / volume up, down, mute buttons / internal mic / microphone input jack (3.5 mm; pink) / headphone jack (3.5 mm; green)										24 hour x 7 day <sup>18</sup> toll-free warranty support during the warranty <sup>12</sup> via 800-IBM-SERV (426-7378)							
Security	Power-on password / hard disk password / supervisor password / security keyhole										The Ultrabay Slim supports:							
Security chip	IBM Embedded Security Subsystem 2.0 <sup>33</sup> / hardware key storage / multi-factor authentication / local file encryption / Atmel® chip / TCG-compliant										• standard or optional CD-RW/DVD combo drive							
Limited warranty <sup>12</sup>	3 years/1 yr battery - EasyServ™ <sup>19</sup> onsite pickup and delivery courier service										• optional DVD drive							
Service options	Service upgrades <sup>22</sup> provide up to five years of onsite or depot repair service coverage from date of ThinkPad purchase (including warranty period)										• optional second battery							
										• optional HDD adapter (for 2nd disk)								
										• optional travel bezel								
128MB PC2700 DDR-SDRAM CL2.5 SOD										31P9828	ThinkPad T40 Li-Ion Battery 6-cell					08K8214	ServicePac® <sup>22</sup> 2yr IOR 9x5 NBD	
256MB PC2700 DDR-SDRAM CL2.5 SOD										31P9830	T40 High Capacity Li-Ion Battery 9-cell					08K8197	30L9190	
512MB PC2700 DDR-SDRAM CL2.5 SOD										31P9832	Ultrabay Slim Li-Polymer Battery 3-cell					08K8190	ServicePac 3yr IOR 9x5 NBD	
1GB PC2700 DDR-SDRAM CL2.5 SOD										31P9834	ThinkPad Multiple Battery Charger II					22P9040	30L9197	
IBM USB Portable Diskette Drive										05K9276	ThinkPad 72W AC Adapter					02K6699	ServicePac 4yr IOR 9x5 NBD	
IBM USB 2.0 Combo Drive										73P4515	ThinkPad 72W AC/DC Combo Adapter					22P9010	69P9198	
IBM USB 2.0 Portable Multi-Burner Drive										22P9163	IBM 11a/b/g Wireless CardBus Adapter					31P9101	ServicePac 5yr IOR 9x5 NBD	
IBM USB 2.0 Memory Key 512MB										22P9230	IBM 11a/b/g Wireless Mini PCI Adptr II					73P4301	69P9200	
CD-RW/DVD Combo II Ultrabay Slim Drive										73P3288	Intel PRO/Wireless 2200BG Mini PCI					73P2801	ServicePac 4yr P&L P/U Depot	
Multi-Burner Plus Ultrabay Slim Drive										73P3342	IBM M400 Projector					0037A04	69P9199	
Second HDD Adapter for Ultrabay Slim										62P4554	IBM E400 Projector					0038A04	ServicePac 5yr P&L P/U Depot	
40GB HS Hard Disk 9.5mm (5400 rpm)										08K9816	IBM C400 Projector					0039A04	69P9201	
60GB HS Hard Disk 9.5mm (5400 rpm)										73P3357	GemPC400 Smart Card Reader/Writer					31P8901	Other ServicePac options at	
80GB HS Hard Disk 9.5mm (5400 rpm)										09N4273	ThinkPad Port Replicator II					74P6733	<b>ibm.com/services/its/us/source/wamomxeu.pdf</b>	
IBM 4GB Microdrive™ with PC Card										09N4280	ThinkPad Mini Dock					287810U	Post-warranty annual maintenance	
IBM USB Travel Keyboard with UltraNav										31P9490	ThinkPad Dock II					287710U	agreements at	
IBM Optical 3-Button Travel Wheel Mouse										31P7410	ThinkPad Monitor Stand 2001					22P5265	<b>ibm.com/services/its/us/source/maspspleu.pdf</b>	
ThinkPad Nylon Carrying Case										10K0207	Other options at <b>ibm.com/options</b>							

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