

Personal Systems Reference IBM ThinkPad i Series Notebooks 1998 to 2002 - withdrawn

April 2002 - Version 237



IBM® ThinkPad®	i Series 1721											
Processor Processor features L2 cache Diskette drive External FDD port DVD CD-ROM	No upgrade / processor, L 512KB / sync pipelined br Internal 3.5" 1.44MB / ren None since diskette interr 2X ⁵ DVD-ROM / ATAPI / b	Itel® Mobile Pentium® II 300MHz¹ / 66MHz system bus Io upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel Mobile Module 12KB / sync pipelined burst / ECC / half speed 12KB / sync pipelined burst / Sync										
	EIDE / PCI 2.1 / disk can b January 1999 / April 2002	0-87944-47527-9 5.4GB ⁴ / 13ms read / 14ms write / S.M.A.R.T. ⁸ / supports two internal disks EIDE / PCI 2.1 / disk can be removed to upgrade by customer January 1999 / April 2002 14.1 TET color / Active Matrix										
Display - size and type Display - technology	XGA / 640x480 or 800x60	14.1" TFT color / Active Matrix XGA / 640x480 or 800x600 or 1024x768 / 30ms / 120 nits 16.7 million simultaneous colors / 100 to 1 contrast ratio ratio										
Graphics - controller Graphics - external Graphics - features	NeoMagic™ MagicMedia256AV™ (NM2200) / PCI 2.1 / 128-bit engine, 256-bit memory interface / DDC2B / Direct 2.5MB / SDRAM (embedded) / motion compensation / color space conversion / interpolation in X and Y axis External SVGA to 1024x768 with 16.7 million colors at 85Hz simultaneous LCD and CRT²6 / 150 degree tilt / multiple-monitor support²6 lock on the bottom of the system are											
Memory - std / max Memory - features	sockets accessed from bo	-pin SO DIMMs / one socket used by std memory ottom via removing cover held by phillips-head sci	LED which device; it sues standard of optional s	should b pports: diskette/ econd b	e off to sa CD-ROM attery (ho	afely re I (warm	move a swap)					
Keyboard Pointing	TrackPoint® / Press-to-Se center button for scrolling	functions) / keyboard slope with tilt feet /palm rest lect / Release-to-Select / dragging / click pace (Internet Scroll Bar) or magnifying glass / spare ca	battery asoptional soptional T	econd d	isk (cold s		ons ¹²					
Dimensions Weight ²	12.4 x 10.2 x 1.8" (228 cu 7.8 lbs (3.54 kg) with batte	ery and disk	Liller Dev EV	C:	nodels: drive is F							
Battery - type / life ¹⁰ Charge time ¹⁰ - on / off Architecture	6 hrs on / 3 hrs off	s (1 battery) / left side / supports second battery in PIIX4E (EIDE, PCI to ISA bridge, USB)	UltraBay FX	Bay FX - D: drive is FAT32 of remaining space								
Docking station Port replicator PC Card Std slots USB / serial / parallel Other features Video in/out MPEG decoder Data/fax modem Audio Speakers Audio features Audio in/out jacks	PCI 2.1 / 32-bit / 33MHz (ISA (audio, diskette, seria None ThinkPad Port Replicator 2 Type I, 2 Type II, or 1 Typ One USB / one 9 pin; 165: APM-aware BIOS / University None None (software MPEG-2 56K³ / V.90 / integrated in 16-bit SoundBlaster Pro™ Two Altec Lansing® Soun Dial volume control (right Microphone jack (stereo)	ThinkPad Port Replicator with Advanced EtherJet™ / ThinkPad 560 Port Replic 2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed video One USB / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional) APM-aware BIOS / Universal AC adapter; barrel (56 watts) • ThinkPad 560 Port Replic • ThinkPad 560 Port Pad 560 Port P										
Infrared ports Security	·	IrDA 1.1 compatible / up to 4Mbps up password / disk password /	ConfigSatIBM UpdaPC Docto	te Conn r™ (syste	em diagn							
Limited warranty*,11 Service options15	1 year - EasyServ™,9 onsi	te pickup and delivery courier service s day (72 cities) / service agreements up to 5 years	Puma Inte→ Customiz	Navigat on the N elliSync 9 ation Ce	or browse let 97 enter CD-l	er ROM						
management, addition	Replicator with Feature provides cable nal I/O ports, CardBus PC 00 ethernet with Wake on	- 1201VID 30 DIIVIIVI 3.3V INF 3DHAIVI UTKTT3	↑ World Boo	lecovery nan Golf ok Encyc	CD-RON Pro 98 clopedia	Л						
- 10/100 ethernet (Inte - Dual IBM lock slots t PC Cards, and Port I	el 82558, Wake on LAN) to secure the ThinkPad, Replicator	 ThinkPad 560 Port Replicator 46H420 Port Replicator w/ Advanced EtherJet 05K487 6.4GB disk with UltraBay FX adapter 05K892 Model number TP923; UPC 0-87944-44543-2 10GB disk with UltraBay FX adapter 05K898 	2 6.4GB = Ultr 3 10GB = Ultr Disks are S	ra DMA/ a DMA/	/33 or PI0 33 or PI0	O Mode	e 4 e 4					
external display, keyAudio in and out (3.5Joystick/MIDI port (1		 12GB disk with UltraBay FX adapter ThinkPad 390/i Series Li-Ion Battery 02K651 Model number TP513; UPC 0-87944-44544-9 V.90 PC Card Modem with XJACK3 1BM Mini-Mouse (black) Visit www.ibm.com/pc/us/accessories (U.S.) of the complex of the compl	PC 97 comp ACPI ready Setup Guide 98 manual System Stat	lý (APM enabled) de, User's Reference, Window al, and Quick Reference Card								
Features of the PC Ca - Two Type III slots (s - PC Card Standard 9 - CardBus compliant (- PCMCIA 2.1 (no Zoc	ide by side) 5 compliant (PCI 2.1 / 32-bit)	www.ibm.com/pc/ca/accessories (CA) - ThinkPad Proven™ solutions¹² (visit www.ibm.com/pc/us/thinkpad/proven)	Standby, sus ENERGY S Internations 24 hour / 7	spend, a FAR com al Warra day ⁷ tele	npliant I nty Serv i ephone , I	ice ¹¹ bulletii						
- TI 1250A controller - Requires no PCI-to-F	PCI bridge	Pressing F1 during startup brings up IBM BIOS Setup Utility		lectronic, and Internet m.com/pc/us) support								

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad in most North American locations, IBM repairs and mails back (no shipping charges, most shipping is overnight, 5 business day average turnaround). The customer may be asked certain diagnostic questions before a courier is sent.

* For a copy of IBM's Statement of Limited Warranty, call 1-800-772-2227

亞州® ThinkPad® i Series 1210, 1230, 1250, 1260 - withdrawn

Name Type-model P	rocessor	MHz	Mem	Screen	Disk	CD-ROM	Modem	Ethernet	Design	Preload	Avail
1230 1161-230 C 1250 1161-250 C		500/100 500/100 500/100 550/100	32MB 64MB 64MB 64MB	12.1" HPA SVGA 13.0" HPA SVGA 12.1" TFT SVGA 13.3" TFT XGA	6GB ⁴ 6GB 6GB 6GB	24X-10X ⁵ 24X-10X 24X-10X 24X-10X	modem modem	optional optional optional optional	Two-spindle Two-spindle Two-spindle Two-spindle	Win98SE Win98SE Win98SE Win98SE	June 2000 June 2000 June 2000 June 2000
Processor L2 cache Memory	128KB / 32 or 6 4 PC 100	onboard (a IMB standa std memo	t proce rd / 16 ory inte	sor speed) / ECC 0 or 192MB max ¹⁷ grated / one 144-p	/ SDR/ in SO-l	AM / non-pa DIMM avail			- Microsoft [®] Edition • ThinkPad	Windows® Utilities	PRELOAD ¹⁶ 98 Second
CD-ROM Ultrabay 2000 Disk (removable)	Diskette drive CD-ROM CD-ROM⁵ / 24X-10X speed / bootable / not removable None None CD-ROM None None None None CD-ROM⁵ / 24X-10X speed / bootable / not removable None None CD-ROM⁵ / 24X-10X speed / bootable / not removable None None CD-ROM⁵ / 24X-10X speed / bootable / not removable None PC-Doctor™ PC-Doctor™ PC-Doctor™ PC-Doctor™										
Display	12.1" (30 13.0" (33 13.3" (33	08mm) SVG 30mm) SVG 38mm) XG	A (800 A (800 A (1024)x600) TFT color / ;)x600) HPA color / !x768) TFT color /	Active High I Active	Matrix Performanc Matrix	e Address	sing	NetscapeThinkPadConfigSat	Communication the Net fe®	ator DEM edition)
Graphics - external	1210: 1230/50	/60: Silicon Extern /60: Extern	Motion al SVG al SVG	n Inc (SMI) LynxEN n Inc (SMI) LynxEN iA to 1024x768x65, iA to 1024x768x16.	Л4+ SN 536 со 7millior	//712 / PCI / lors at 85Hz n colors at 8	′ 4MB me ′		IBM UpdaQuicken 2Adobe AcEarthlink	ite Connect 2000 robat Read	or™,¹⁴
Keyboard Pointing ThinkLight UltraPort™ connectr	four cus TrackPo None	tomizablè c	olor-co	Fn key functions) / poded Easy Launch ect / Internet Scroll	butto		Vindows	keys	 Real Play America C @Backup Lotus® Sn CD-ROM 	Online ⁶	l illennium
Dimensions ¹⁹ Approximate weight ² Battery - type Battery - life ²¹ Charge time ²¹ - on / of	**Software Selections CD-ROM **Software Selections CD-ROM **Software Selections CD-ROM **Software Selections CD-ROM **Recovery CD-ROM (Windows 98 SE) **Software With CD drive and battery: 1210/50/60: 6.0 lb (2.7 kg), 1230: 6.2 lb (2.8 kg) **NiMH 8-cell tige! 1210/30: 2.8 hr, 1250/60: 2.6 hr										
Architecture Port replicator Docking Station PC Card Std slots Ports Other features	Intel 440 PCI 2.1, M5135 S software None None 1 Type I Two USI RJ-11 (n	OMX chip s 32-bit 33M Super I/O (d	IHz (gr. diskette or 1 Ty 1.1) / p o serial	emory, IDE, USB, F aphics, CardBus) / c, serial, parallel) / pe III / CardBus 32 arallel / keyboard / port	O2® M audio a	licro 6812 f and modem CMCIA 2.1	function / Zoome	s in d Video			
Video in and out Modem Ethernet Audio support	None / c SoundB speakers no interr	optional via laster Pro™ s / keyboard nal micropho	PC Ca suppo d-based one / o	set / AC97 modem rd ort / CS4229 AC97 d audio controls / utput jack (3.5 mm) disk password / se	codec / mic ir	n jack			ENERGY Setup Gui Windows Personaliz Internation	al Warranty	liant Reference, sed support
Limited warranty ¹¹ Warranty upgrade ⁷	1 year - On-site, response	Monday-Fr	ThinkP iday ex	ad EasyServ™ ⁹ de kcluding holidays, 9	pot rep 9 hours	air service v s per day, n	via courie ext bus d	r ay		during the v	

Video Modes - 1210 with 2MB memory											
LCD External Monitor											
Resolution		<u>60Hz</u>	<u>75Hz</u>	<u>85Hz</u>							
640x480	97K	16M	16M	16M							
800x600	97K	16M	16M	16M							
1024x768	64K*	64K	64K	64K							
1280x1024		256									

* Supports 1024x768 in virtual screen mode

Video Modes - 1230/50/60 with 4MB

	LCD	External Monito							
Resolution		<u>60Hz</u>	<u>75Hz</u>	85Hz					
640x480 800x600 1024x768 1280x1024	262K** 262K** 262K*,**	16M 16M 16M 64K	16M 16M 16M	16M 16M 16M					

* Supports 1024x768 in virtual screen mode ** HPA screen on 1230 supports maximum of 97,336 colors

OPTIONS

- 32MB SO DIMM 100MHz NP SDRAM 20L0253
- 64MB SO DIMM 100MHz NP SDRAM 20L0254
- 128M SO DIMM 100MHz NP SDRAM 20L0255
- 128M SO DIMM 100MHz NP SDRAM 20L0255 IBM MultiPort USB Hub 00N8215 1200/1300 i Series NiMH Battery 02K6680 **Dual Chemistry Battery Charger** 02K6696 Ultraslim 56 watt AC Adapter 02K6545 56W Car DC Adapter IBM USB Portable Diskette Drive 02K3381 05K9276 - IBM EtherJet PC Card 08L3147 00N8073 - IBM 340MB microdrive

- Visit www.ibm.com/pc/us/accessories (U.S.) or www.ibm.com/pc/ca/accessories (CA)

- ThinkPad Proven™ solutions12 (visit www.ibm.com/pc/us/thinkpad/proven)

Visit www.ibm.com/pc/us/thinkpad/iseries (U.S.) or www.ibm.com/pc/ca/thinkpad (CA)

19K4480 - SuperDisk (LS-120) UltraBay 2000 - 24X-10X CD-ROM Ultrabay 2000 05K9236 05K9233 - 4X/4X/20X CD-Read/Write Ultrabay 00N8252 -6GB Ultrabay 2000 Disk Drive* 05K9237 - 12GB Ultrabay 2000 Disk Drive* 05K9238 - 18GB Ultrabay 2000 Disk Drive* 05K9239

requires Second Hard Disk Drive Adapter 08K6068

Name Type-mode	el Processor I	MHz Mei	Scree	n	Disk	CD or	DVD-RO	M Modem	Ethernet	Design	Preload	Avail
1200-11U 1161-11U 1200-41U 1161-41U 1200-51U 1161-51U 1200-71U 1161-71U	Celeron 8 Celeron 6	550 32N 550 64N 600 64N 600 64N	IB 12.1"	HPA SVGA TFT SVGA TFT SVGA TFT XGA	5GB ⁴ 5GB 10GB 10GB	8X-2	-10X ⁵ CD -10X CD 2X ⁵ DVD 2X DVD	modem	optional	Two-spindle Two-spindle Two-spindle Two-spindle	Millennium	Sept 2000
Processor L2 cache Memory	Intel® Mobile 128KB / onbo 32 or 64MB s PC 100 / std i	ard (at pro tandard /	cessor sp 160 or 19	eed) / ECC 2MB max ¹⁷ /	SDRA	M / no	n-parity /		/ -	/INDOWS MIL Microsoft® Wi ThinkPad Util	ndows® Mil ities	lennium
Diskette drive CD-ROM DVD Ultrabay 2000 Disk (removable)	None standar Some models Some models None 5 or 10GB ⁴ / S	:: CD-RON :: DVD-RO S.M.A.R.T	1 / 24X-10 M ⁵ / 8X-2	0X⁵ speed / k 2X⁵ speed / b	ootable	e / not e / not	removab	le	•	Easy Launch Access Think Owner Privile ThinkPad Ass PC-Doctor™ Mediamatics	Pad II ges 2.0 sistant DVD (DVD	models)
Display	12.1" (308mm 12.1" (308mm 13.3" (338mm	SVGA (8	00x600) [·]	TFT color / A	Active M	latrix	ance Add	ressing	•	Norton Anti-V IBM Update (Quicken 2000 Adobe Acroba	Connec̀tor™)	
Graphics controller Graphics - external	11U: 41U/51U/71U 11U: 41U/51U/71U	Silicon N External	otion Inc	1024x768x65	M4+ S 5,536 c	M712 . olors a	/ PCI / 4N t 85Hz	/IB memo	ory •	Earthlink ⁶ Real Player C America Onlii Lotus® Smart	ne ⁶	nnium
Keyboard Pointing ThinkLight UltraPort™ connectr	Full-size 87-ke three customi: TrackPoint® / None None	ey (multip zable cold	e Fn key r-coded E	functions) / p	alm res	st / Th	inkPad B	utton and	d s ⇔	CD-ROM Software Sele Recovery CD Millennium)		
Dimensions ¹⁹ Approximate weight ² Battery - type Battery - life ²¹ Charge time ²¹ - on / off	Approximately with CD or DV NiMH 8-cell 11U: 2.5 hr, 4 5 hrs / 2 hrs	D drive ar	d battery:	11U/41U: 5.		7 kg), (51U/71U:	6.2 lb (2.	8 kg)			
Port replicator Docking Station PC Card Std slots Ports Other features	Intel 440MX of PCI 2.1, 32-bi O2® Micro 68 audio and mo Optional IBM None 1 Type I, 1 Ty Two USB (Ver RJ-11 (moden 56 watt AC Ac	it 33MHz 12 for Cai dem func MultiPort pe II, or 1 rsion 1.1) n) / no sei	graphics, dBus / AL ions in so JSB Hub Type III / parallel /	CardBus, M LI M5135 Sul ftware CardBus 32-	lini PCI per I/O -bit / PC) / (paral	, lel) / . 2.1 / Zoo					
Video in and out Modem Ethernet Audio support Security	None 56K³ V.90 / Lu None / options SoundBlaster display mount no internal mid Power-on pass	al via PC Pro™ sur ed stereo crophone sword / ha	Card port / CS speakers output ja d disk pa	4299 AC97 (/ keyboard-b ck (3.5 mm) / ssword / set	codec / pased a / mic in up pass	jack word /	security	keyhole		IBM Owner Pr ENERGY STA Setup Guide, Windows ma Personalized	AR compliar User's Refe anual	rence,
Limited warranty ¹¹ Warranty upgrade ¹⁵	1 year - Easys On-site, Monoresponse							us day		International N 24 hour x 7 da support duri	Varranty Se ay ⁷ toll-free	ervice ¹¹ hardware

Video Modes - 11	U with 2	MB mem	ory	OPTIONS
LCI) E	kternal M	onitor	- 32MB SO DIMM 100MHz NP SDRAM 20L0253 Devices for IBM Portable Drive Bay 2000
Resolution 640x480 97k 800x600 97k 1024x768 64k 1280x1024 * Supports 1024x	(* 64 25	M 16M M 16M K 64K	16M 16M 64K	- 64MB SO DIMM 100MHz NP SDRAM 20L0254 - 128M SO DIMM 100MHz NP SDRAM 20L0255 - 1BM MultiPort USB Hub 0N8215 - 1200/1300 i Series NiMH Battery - Dual Chemistry Battery Charger - Dual Chemistry Battery Charger - 72W AC Adapter - 72W AC Adapter - 56W Car DC Adapter - 56W Car DC Adapter - 56W Car DC Adapter - 02K3381 - requires Second Hard Disk Drive Adapter - Portable Drive Bay 2000
Video Modes - 41	Video Modes - 41U/51U/71U with 4MB			- IBM USB Portable Diskette Drive 05K9276 08K6068 - IBM EtherJet PC Card 08L3147
LCE) E	kternal M	onitor	- IBM 340MB microdrive 00N8073
Resolution 640x480 16M 800x600 16M 1024x768 16M 1280x1024	l 16	M 16M M 16M M 16M	16M 16M 16M 16M	 Visit www.ibm.com/pc/us/accessories (U.S.) or www.ibm.com/pc/ca/accessories (CA) ThinkPad Proven™ solutions¹² (visit www.ibm.com/pc/us/thinkpad/proven)
* Supports 1024x768 in virtual screen mode for SVGA models				- Visit www.ibm.com/pc/us/thinkpad/iseries (U.S.) or www.ibm.com/pc/ca/thinkpad (CA)

Name Type-mod	el Processor N	/IHz Mem	Screen	Disk	CD o	r DVD-RON	VI Modem	Ethernet	Design	Preload	Avail	
1200-42U 1161-42U 1200-62U 1161-62U 1200-92U 1161-92U	J Pentium® III 7		12.1" TFT SVGA 12.1" TFT SVGA 13.3" TFT XGA	10GB	8X-	2X⁵ DVD	modem	optional	Two-spindle Two-spindle Two-spindle	Millennium	Feb 2001	
Processor			00MHz1 with 100M					w	/INDOWS MIL	LENNIUM F	PRELOAD16	
L2 cache	Celeron: 12	8KB / onbo	OOMHz with 100Ml pard (at processor spard (at processor spard)	peed) /	ECC	Bus		•	Microsoft® Wi Notebook Ma	nager II	lennium	
Memory			ax ¹⁷ / SDRAM / non- grated / one 144-pi				socket	•	Utility Wizard Easy Buttons	Utility		
Diskette drive CD-ROM DVD Ultrabay 2000 Disk (removable)	Some models: Some models: None	None standard / optional USB Portable Diskette Drive Some models: CD-ROM / 24X-10X⁵ speed / bootable / not removable Some models: DVD-ROM⁵ / 8X-2X⁵ speed / bootable / not removable None 10 or 20GB⁴ / S.M.A.R.T.⁵ / average seek 12 ms (read) / ATA-5 66MB/sec • Client Manager Utility • Access ThinkPad 2.5 • ThinkPad Assistant • Owner Privileges 2.0 • PC-Doctor™ • Mediamatics DVD (DVD models)										
Display			x600) TFT color / A x768) TFT color / A					•	Norton Anti-V IBM Update (Quicken 200	Tirus™`(OEN Connector™	1 edition)	
Graphics controller Graphics - external	62U/92U: Silico 42U: Exte	on Motion I rnal SVGA	nc (SMI) LynxEM+ nc (SMI) LynxEM4- to 1024x768x65,53 to 1024x768x16.7n	+ SM71 6 colors	2 / P0 s at 8	OI / 4MB m 5Hz	emory nemory	•	Adobe Acroba Earthlink ⁶ Real Player G JUNO MusicMatch	32		
Keyboard			n key functions) / p					d •	America Onlii	ne ⁶		
Pointing ThinkLight UltraPort™ connectr	TrackPoint® / Pr None		coded Easy Launcl ect / Internet Scroll I		ons" /	two vvinc	iows key	*	Lotus® Smart CD-ROM Software Sele Recovery CD	ections CD-	ROM	
Dimensions ¹⁹ Approximate weight ²			1.4"; 313 x 252 x 3 pattery: <i>42U:</i> 5.95 lb <i>92U:</i> 6.06 lb	(2.7 kg		<i>J:</i> 6.02 lb ((2.7 kg)	·	Millennium)			
Battery - type Battery - life ²¹ Charge time ²¹ - on / off	42U: NiMH 8-ce 42U: 2.6 hr, 5 to 6 hrs / 2 to	62U/92	<i>PU:</i> Li-lon <i>PU:</i> 3.7 hr									
Architecture	PCI 2.1, 32-bit	33MHz`(gra 2 for CardB	mory, IDE, USB, Po aphics, CardBus, M us / ALI M5135 Sup as in software	lini PCI) /							
Port replicator Docking Station PC Card Std slots Ports	Optional IBM M None 1 Type I, 1 Type Two USB (Vers RJ-11 (modem)	lultiPort US e II, or 1 Ty sion 1.1) / pa) / no serial	B Hub pe III / CardBus 32- arallel / keyboard/m									
Other features	56 watt AC Ada	ıpter							NERGY STAI			
Video in and out Modem Ethernet Audio support	None / optional SoundBlaster® display-mounted no internal micr	l via PC Ċa Pro™ audio d stereo sp ophone / ou	et on planar / AC9 rd / no Mini PCI o support / CS4299 eakers / keyboard- utput jack (3.5 mm) / disk password / set	AC97 oased a	codeo audio jack	controls /		P Ir 2	Setup Guide, L Windows ma Personalized Voternational World A 4 hour x 7 day Support during Vorld Wide We	nual Veb-based /arranty Ser y ⁷ toll-free h ig the warra eb: ibm.cor	support rvice ¹¹ nardware anty n /thinkpad	
Limited warranty ¹¹ Warranty upgrade ¹⁵			ad EasyServ™,9 der cluding holidays, 9					В	Buy Direct: 1 8	88 SHOP-II	BM ext 7874	

Video Mod	es - 42U wi	ith 2MB	memo	ry	OPTIONS
	LCD	Exter	nal Mo	nitor	- 64MB SO DIMM 100MHz NP SDRAM 20L0254 Devices for IBM Portable Drive Bay 2000
Resolution 640x480 800x600 1024x768 1280x1024 * Supports		16M 16M 64K 256	75Hz 16M 16M 64K 	85Hz 16M 16M 64K nmode	- 128M SO DIMM 100MHz NP SDRAM 20L0255 - IBM MultiPort USB Hub 00K8215 - Series NiMH Battery 8-cell 02K6680 - Series Li-Ion Battery 8-cell 02K6725 - Ultraslim 56 watt AC Adapter 02K381 - 72W AC Adapter 02K381 - 56W Car DC Adapter 02K381 - requires Second Hard Disk Drive Adapter 02K381 - Portable Drive Bay 2000 19K4480 - 2X SuperDisk (LS-120) UltraBay 27L3451 - 2X SuperDisk (LS-120) UltraBay 27L3451 - 2X SuperDisk (LS-120) UltraBay 27L3451 - 20K66725 - 20GB Ultrabay 2000 Disk Drive* 08K9510 - 20GB Ultrabay 2000 Disk Drive* 08K9511 - 20GB Ultrabay 2000 Disk Drive* 08K9511
Video Mod	Video Modes - 62U/92U with 4MB				- IBM USB Portable Diskette Drive 05K9276 08K6068 - IBM USB Mobile Mouse 33L3243
	LCD	Exter	nal Mo	nitor	- IBM 10/100 EtherJet CardBus Adapter 08L3147
	16M 16M 16M 1024x768 SVGA mod	16M 16M 16M 64K in virtua	75Hz 16M 16M 16M al scree	85Hz 16M 16M 16M 	- 10/100 CardBus PC Card (cabled) - 10/100 CardBus Adptr XJACK 3Com - IBM 8MB USB Memory Key - 1GB Microdrive - USB to Parallel Printer Cable - IBM High Rate Wireless PC Card 128 09N9904 - High Rate Wireless Access Pt 500 - Bluetooth PC Card from IBM - 10/100 CardBus PC Card (cabled) - Visit ibm.com/pc/ca/accessories (CA) - Visit ibm.com/pc/ca/accessories (CA) - ThinkPad Proven™ solutions¹² (visit ibm.com/pc/thinkpad/proven) - ThinkPad Proven™ solutions¹² (visit ibm.com/pc/thinkpad/proven) - 10/100 CardBus PC Card (19N9801 - Visit ibm.com/pc/ca/accessories (CA) - ThinkPad Proven™ solutions¹² (visit ibm.com/pc/thinkpad/proven) - 10/100 CardBus Adptr XJACK 3Com - 19K4513 or ibm.com/pc/ca/accessories (CA) - ThinkPad Proven™ solutions¹² (visit ibm.com/pc/thinkpad/proven) - 10/100 CardBus Adptr XJACK 3Com - 19K4513 or ibm.com/pc/ca/accessories (CA) - ThinkPad Proven™ solutions¹² (visit ibm.com/pc/thinkpad/proven) - 10/100 CardBus Adptr XJACK 3Com - 19K4513 or ibm.com/pc/ca/accessories (CA) - ThinkPad Proven™ solutions¹² (visit ibm.com/pc/thinkpad/proven)

運M® ThinkPad® i Series 1200 (Spring 2001) - withdrawn

Type-mod	elProcessor MHz	Mem	Screen	Disk	Optical	Modem	LAN	Design	Preload	Office Software	Available
1161-43U	Celeron™ 700	64MB	13.3" TFT XGA	10GB ⁴	CD-ROM ⁵	Modem	None	Two-spindle	Millennium	SmartSuite	May 2001
1161-53U	Celeron 700	64MB	13.3" TFT XGA	10GB	CD-ROM	Modem	None	Two-spindle	Millennium	SmartSuite, Office XP	Aug 2001

Processor L2 cache Memory	Intel® Mobile Celeron™ 700MHz¹ with 100MHz Front Side Bus 128KB / on die (at processor speed) / ECC 64MB standard / 192MB maximum¹¹ / SDRAM / non-parity / PC100 / 8MB utilized for video / standard memory integrated / one 144-pin SO-DIMM socket available	OPERATING SYSTEM PRELOAD ¹⁶ Windows Millennium models - Microsoft® Windows® Millennium Edition
Diskette drive CD-ROM Ultrabay™ 2000 Disk (removable)	None standard / optional USB Portable Diskette Drive CD-ROM / 24X-10X ⁵ speed / bootable / not removable None / optional USB or PC Card attach Portable Drive Bay 2000 10GB ⁴ / S.M.A.R.T. ⁸ / average seek 12 ms (read) / ATA-5 66MB/sec	 Disk-to-Disk Recovery (in hidden Service Partition) ADDITIONAL PRELOADED
Display Graphics controller Graphics - external	13.3" (338mm) XGA (1024x768) TFT color / Active Matrix Trident® CyberBlade Aladdin i1 / in M1632M Northbridge / 2X AGP 3D graphics / Unified Memory Architecture (UMA uses main 8MB of system memory) / MPEG2 External SVGA to 1024x768x16.7million colors at 85Hz	SOFTWARE Utility Wizard Notebook Manager II
Keyboard Pointing ThinkLight™ UltraPort™ connectr	85-key (multiple Fn key functions) / palm rest / ThinkPad Button and three customizable color-coded Easy Launch buttons 18 / pitch: 18mm; stroke: 2.3mm TrackPoint® / Press-to-Select / Internet Scroll Bar None None	 Easy Buttons Utility Access ThinkPad 2.5 ThinkPad Assistant IBM Owner Privileges PC-Doctor™ Norton AntiVirus™ (OEM edition)
Dimensions (WxDxH) ¹⁹ Approximate weight ² Battery - type Battery - life ²¹ Charge time ²¹ - on / off AC adapter	Approximately 12.3 x 9.9 x 1.4" / 313 x 252 x 36mm with CD and battery: 6.0lb / 2.7 kg NiMH 8-cell / 9.6V x 4.5Ah / supports Li-lon 2.4hrs 5hrs / 2hrs 56 watt universal AC adapter	IBM Update Connector™.14 Quicken 2001 Adobe Acrobat Reader Earth Link Earth Link Premium Juno
Architecture Port replicator Docking Station PC Card Std slots Ports	ALi chipset / M1632M Northbridge (memory, graphics, PCI) / M1535+ Southbridge (IDE, USB, parallel, audio, Mini PCI, power management) / PCI 2.1, 32-bit 33MHz / O2® Micro OZ6812 for CardBus Optional IBM MultiPort USB Hub None 1 Type I, Type II, or Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video Two USB (Version 1.1) / parallel / keyboard / mouse / DB-15 monitor / RJ-11 (modem) / RJ-45 (ethernet models) / no serial port	MusicMatch Jukebox America Online Some: Microsoft Office XP Small Business²e (Word, Excel, Outlook, Publisher, Small Business Tools) Some: Microsoft Office XP Small Business CD ◆Lotus® SmartSuite® Millennium CD
Modem LAN Audio support	56K³ V.90 / Lucent® CSP1037B / AC97 modem codec <i>None</i> SoundBlaster® Pro™ audio support / CS4299 AC97 codec / 32 voice wave table / stereo speakers in cover on bottom of display / keyboard-based audio controls / no internal microphone / stereo output jack (3.5 mm) / mono mic in jack (3.5mm) Power-on password / hard disk password / setup password / security keyhole	
Limited warranty ¹¹ Service options ¹⁵	1 year - customer carry in or EasyServ ^{TM,9} onsite pickup and delivery courier service On-site, Mon-Fri excluding holidays, 8 hours per day, next bus day response	

Video Modes wit	th 8MB	OPTIONS			
	1 16M 16M 1 16M 16M 	 - 64MB SO DIMM 100MHz NP SDRAM - 128M SO DIMM 100MHz NP SDRAM - i Series NiMH Battery 8-cell - i Series Li-Ion Battery 8-cell - i Series Battery Charger - Ultraslim 56 watt AC Adapter - 72W AC Adapter - 56W Car DC Adapter - 1BM MultiPort USB Hub - 1BM USB Portable Diskette Drive 		Devices for IBM Portable Drive Bay - SuperDisk (LS-240) Drive UltraBay - 8X/4X/24X CD-Read/Write Ultrabay - 15GB Ultrabay 2000 Disk Drive** - 30GB Ultrabay 2000 Disk Drive** - 32GB Ultrabay 2000 Disk Drive** ** requires Hard Disk Drive Adapter - ServicePac® 1yr IOR 9x5 NBD - ServicePac 2yr IOR 9x5 NBD	08K9616
ENERGY STAR compliant Setup Guide, User's Refer Windows manual Personalized Web-based International Warranty Ser 24 hour x 7 day ⁷ toll-free h during the warranty World Wide Web: ibm.con Buy Direct: 1 888 SHOP-IE	erence, support ervice ¹¹ hardware support m /thinkpad	- IBM USB Mobile Mouse - USB to Parallel Printer Cable - IBM 8MB USB Memory Key - IBM 10/100 EtherJet CardBus Adapte - 10/100 CardBus PC Card (cabled) - 10/100 CardBus Adptr XJACK 3Com - IBM High Rate Wireless PC Card 128 - High Rate Wireless Access Pt 500 - Bluetooth PC Card from IBM - 1GB Microdrive - Portable Drive Bay 2000	09N3701 09N9801	- ServicePac 3ýr IOR 9x5 NBD	30L9195

運派® ThinkPad® i Series 1330, 1370 - withdrawn

Name Type-model P	rocessor	MHz	Mem	Screen	Disk	CD-ROM	Modem	Ethernet	Design	Preload	Avail
1330 1171-330 C	eleron eleron	500/100 550/100	64MB 64MB	12.1" TFT SVGA 13.3" TFT XGA	6GB⁴ 12GB	24X-10X ⁵ 24X-10X	modem modem	10/100 10/100	Two-spindle Two-spindle	Win2000 Win2000	June 2000 June 2000
Processor L2 cache Memory Diskette drive CD-ROM Ultrabay 2000 Disk (removable) Display Graphics controller Graphics - external Keyboard Pointing ThinkLight UltraPort™ connected Dimensions¹9 Approximate weight² Battery - type Battery - life²¹ Charge time²¹ - on / of Architecture Port replicator Docking Station PC Card Std slots Ports Other features	128KB / 64MB st PC 100 None st CD-RON None 6.0 or 1: 12.1" (30 13.3" (3) Silicon N External Full-size four cus TrackPo None None 1330: ap 1370: ap with CD NiMH 8-2.6 hr ff 5 hrs / 2 Intel 44 PCI 2.1, CardBus function None 1 Type I Two US RJ-11 (r	/ onboard (a tandard / 15 / std memo andard / op M / 24X-10) 2.0GB ⁴ / S. 08mm) SVG 38mm) XG/ Motion Inc (ISVGA to 1 Be 7-key (mutomizable coint® / Press Deproximately proximately drive and be cell 2.5 hrs 0MX chip sell, many sell of the se	tt proced transfer to procedure	x600) TFT color / A x768) TFT color / ynxEM4+ SM712 /	M / non n SO-L tte Driviemova Active N Active PCI / 4 S at 85h Palm re buttoi Bar 252 x : 252 x : (CI condini PC rial, pa	-parity / 100 DIMM availa e ble Matrix Matrix MB memor -lz st / ns 18 / two V 36.6mm 35.4mm 70: 6.2 lb (2 trollers) / l) / O2® Micrallel) / aud	y Vindows I 2.8 kg) cro 6812 dio and m	for odem	- Microsoft* Profession Microsoft ThinkPad Easy Butte Access TI IBM Owne Online Us PC-Docto RingCent Netscape ThinkPad ConfigSat Norton Ar IBM Upda Quicken 20 Adobe Ac Real Play	Office 2000 Utilities ons Utility ninkPad er Privileges eer's Guide r TM ral Fax Communica on the Net fe® nti-Virus™ (0 tate Connect 2000 erobat Reade er G2 Selections 0	2000 Small Business ator DEM edition) orTM.14 er
Video in and out Modem Ethernet Audio support Security Limited warranty ¹¹ Warranty upgrade ⁷	10/100 I SoundB speakers no interr Power-o	Mini PCI eth laster Pro™ s / keyboard nal micropho n password carry-in or Monday-Fr	nernet ' suppo d-based one / or / hard ThinkP	set / AC97 modem adapter / Intel ethe adapter / Intel ethe with / CS4229 AC97 did audio controls / autio controls / atput jack (3.5 mm) disk password / set ad EasyServ ^{™.9} der coluding holidays, §	rnet ch codec / / mic in up pas oot repa	/ display mo i jack sword / sec air service v	urity keyh	ole r	ENERGY Setup Gui Windows Personaliz Internation 24 hour x	nal Warranty	oliant Reference, sed support or Service ¹¹ ree hardware

MHz

550

Mem

Screen

64MB 12.1" HPA SVGA

Type-model Processor

1300-21U 1171-21U Celeron™

Name

1300-2AU 1171-2AU 1300-61U 1171-61U 1300-71U 1171-71U 1300-91U 1171-91U	Celeron	11b Two-spindle Millennium** Oct 00 00 Two-spindle Win2000 Sept 00 .11b Two-spindle Millennium Oct 00 00 Two-spindle Win2000 Sept 00			
Processor	Intel® Mobile Celeron™ 550 or 600MHz¹ with 100MHz bus or Intel Mobile Pentium III 650MHz with 100MHz bus	WINDOWS MILLENNIUM PRELOAD ¹⁶			
L2 cache	Celeron: 128KB / onboard (at processor speed) / ECC Pentium III: 256KB / onboard (at processor speed) / ECC	Microsoft® Windows® Millennium ThinkPad Utilities			
Memory	64MB standard / 192MB maximum ¹⁷ / SDRAM / non-parity / 100MHz / PC 100 / std memory integrated / one 144-pin SO-DIMM available socket	Easy Launch Buttons Utility Access ThinkPad II Owner Privileges 2.0			
Diskette drive CD-ROM Ultrabay™ 2000 Disk (removable)	None standard / optional USB Portable Diskette Drive CD-ROM / 24X-10X ⁵ speed / bootable / not removable None 5, 10, or 20GB ⁴ / ATA-66 / S.M.A.R.T. ⁸	 PC-Doctor™ Netscape® Communicator Norton Anti-Virus™ (OEM edition) IBM Update Connector™.14 			
Display	12.1 " (308mm) SVGA (800x600) HPA color / High Performance Addressing 12.1 " (308mm) SVGA (800x600) TFT color / Active Matrix 13.3 " (338mm) XGA (1024x768) TFT color / Active Matrix	Quicken 2000 Adobe Acrobat Reader Earthlink ⁶ Real Player G2			
Graphics controller Graphics - external	Silicon Motion Inc (SMI) LynxEM4+ SM712 / PCI / 4MB memory External SVGA to 1024x768x16.7million colors at 85Hz	America Online ⁶ Cotus® SmartSuite® Millennium			
Keyboard Pointing ThinkLight UltraPort™ connectr	Full-size 87-key (multiple Fn key functions) / palm rest / ThinkPad Button and three customizable color-coded Easy Launch buttons ¹⁸ / two Windows keys TrackPoint® / Press-to-Select / Internet Scroll Bar None None	CD-ROM \$ Software Selections CD-ROM \$ Recovery CD-ROM			
Dimensions ¹⁹ Approximate weight ² Battery - type Battery - life ²¹ Charge time ²¹ - on / off	Approximately 12.3 x 9.9 x 1.4"; 313 x 252 x 36mm with CD and battery: 6.0 lb (2.7 kg), some models slightly heavier NiMH 8-cell 2xx: 2.5 hr, 61U: 2.3 hr, 71U: 2.6 hr, 91U: 2.9 hr	WINDOWS 2000 PRELOAD ¹⁶ - Microsoft® Windows® 2000			
Port replicator Docking Station PC Card Std slots Ports Other features	Intel 440MX chip set (memory, IDE, USB, PCI controllers) / PCI 2.1, 32-bit 33MHz (graphics, CardBus, Mini PCI) / O2® Micro 6812 for CardBus / ALI M5135 Super I/O (parallel) / audio and modem functions in software Optional IBM MultiPort USB Hub None 1 Type I, 1 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video Two USB (Version 1.1) / parallel / keyboard / mouse / external DB-15 monitor / RJ-11 (modem) / RJ-45 (ethernet) / no serial port 56 watt AC Adapter	Professional Microsoft Office 2000 Small Business ThinkPad Utilities Easy Buttons Utility Access ThinkPad II ThinkPad Assistant IBM Owner Privileges Online User's Guide PC-Doctor™ Netscape Communicator ConfigSafe®			
Video in and out Modem LAN Audio support Security	None 56K³ V.90 / Lucent® chip set / AC97 modem codec 21U/2AU/71U: 802.11b wireless / Mini PCI adapter / Lucent® chip set 61U/91U: 10/100 Mini PCI ethernet adapter / Intel ethernet chipset SoundBlaster Pro™ support / CS4299 AC97 codec / display mounted stereo speakers / keyboard-based audio controls / no internal microphone / output jack (3.5 mm) / mic in jack Power-on password / hard disk password / setup password / security keyhole	Norton Anti-Virus™ (OEM edition) IBM Update Connector™.14 Quicken 2000 Adobe Acrobat Reader Real Player G2 Software Selections CD-ROM Recovery CD-ROM			
Limited warranty ¹¹ Warranty upgrade ¹⁵	1 year - EasyServ™.9 onsite pickup and delivery courier service On-site, Monday-Fri excluding holidays, 9 hours per day, next bus day response				

Disk

5GB⁴

CD-ROM

24X-10X⁵

Modem

modem

ΙΔΝ

Design

Preload

802.11b Two-spindle Millennium Oct 00

Avail

Video Modes with 4MB						
	LC	D	Exterr	nal Mo	nitor	
Resolution	<u>HPA</u>	TFT	<u>60Hz</u>	<u>75Hz</u>	<u>85Hz</u>	
640x480	97K	16M	16M	16M	16M	
800x600	97K	16M	16M	16M	16M	
1024x768	97K*	16M*	16M	16M	16M	
1280x1024			64K			
*Supports 1024x768 in virtual screen mode for SVGA models						

- Visit www.ibm.com/pc/us/accessories (U.S.) or www.ibm.com/pc/ca/accessories (CA)
- ThinkPad Proven™ solutions¹² (visit www.ibm.com/pc/us/thinkpad/proven)
- Visit www.ibm.com/pc/us/thinkpad/iseries (U.S.) or www.ibm.com/pc/ca/thinkpad (CA)

OPTIONS

- 32MB SO DIMM 100MHz NP SDRAM 20L0253 Devices for IBM Portable Drive Bay 2000 64MB SO DIMM 100MHz NP SDRAM 20L0254 - Portable Drive Bay 2000 - 128M SO DIMM 100MHz NP SDRAM 20L0255 - IBM MultiPort USB Hub 00N8215 - 1200/1300 i Series NiMH Battery 02K6680 Dual Chemistry Battery Charger 02K6696 Ultraslim 56 watt AC Adapter 02K6545 56W Car DC Adapter 02K3381 - IBM USB Portable Diskette Drive 05K9276 - IBM 340MB microdrive 00N8073 - IBM USB Mobile Mouse 33L3243

** The Anytime, Anywhere Learning (AAL) program promotes an affordable, mobile computing solution for students, parents and teachers by using Microsoft Office 2000 Standard (Academic Edition) including Word 2000, Excel 2000, Outlook 2000, and PowerPoint 2000. The program allows qualified individuals associated with an accredited participating school (grade K-12) to buy select 1300 model ThinkPad notebooks at a low price.2

- Portable Drive Bay 2000 19K4480 - 2X SuperDisk (LS-120) UltraBay - 4X/4X/20X CD-Read/Write Ultrabay 27L3451 00N8252 - 10GB Ultrabay 2000 Disk Drive' 08K9510 - 20GB Ultrabay 2000 Disk Drive* 27L3439

Requires Second Hard Disk Drive Adapter 08K6068

> IBM Owner Privileges¹³ ENERGY STAR compliant Setup Guide, User's Reference, Windows manual Personalized Web-based support International Warranty Service 11 24 hour x 7 day7 toll-free hardware support during the warranty

耳順 ThinkPad® i Series 1300 (February 2001) - withdrawn

Name Type-mod	lel Processor I	MHz Mem	Screen	Disk	CD-ROM	Modem	LAN	Design	Preload	Avail
1300-5WU 1171-5W 1300-5BU 1171-5BI 1300-5YU 1171-5YI 1300-7WU 1171-7YI 1300-6LU 1171-6LU 1300-6KU 1171-6LU 1300-9LU 1171-9LU 1300-9KU 1171-9KI	J Celeron J Celeron G Celeron J Celeron J Pentium®III J PentiumIII	650 64MB 650 64MB 650 64MB 700 64MB 700 64MB 700 64MB 700 64MB 700 64MB	12.1" TFT SVGA 12.1" TFT SVGA 13.3" TFT XGA	10GB	24X-10X ⁵ 24X-10X 24X-10X 24X-10X 24X-10X 24X-10X 24X-10X 24X-10X 24X-10X	modem modem modem modem modem modem modem modem	802.11b 802.11b 802.11b 10/100 10/100 10/100	Two-spindle Two-spindle Two-spindle Two-spindle Two-spindle Two-spindle	2000. Small Bus	Feb 01 Mar 01 Feb 01 Mar 01 Feb 01
Processor			50 or 700MHz¹ wit 00MHz with 100Ml		Hz bus or			WINDOWS M	ILLENNIUM PREI	LOAD ¹⁶
L2 cache Memory	Celeron: 12 Pentium III: 25 64MB standard	28KB / onbo 56KB / onbo d / 192MB m	ard (at processor s ard (at processor s naximum ¹⁷ / SDRAN	oeed) / l oeed) / l /l / non- _l	ECC parity / 100N			 Microsoft® N Notebook N Utility Wizar Easy Buttor Client Mana 	rd ns Utility	ium
Diskette drive CD-ROM Ultrabay™ 2000 Disk (removable)	ROM CD-ROM / 24X-10X⁵ speed / bootable / not removable abay™ 2000 None				 Access Thir ThinkPad A Owner Privi PC-Doctor™ 	nkPad 2.5 .ssistant ileges 2.0				
Display			x600) TFT color / A x768) TFT color / A					 IBM Update 	Virus™ (OEM edit e Connector™.14	ion)
Graphics controller Graphics - external			nxEM4+ SM712 / F8x16.7million colors					 Quicken 20 Adobe Acro Earthlink⁶ 		
Keyboard Pointing ThinkLight™ UltraPort™ connectr	three customiza TrackPoint® / Pr None	able color-c	n key functions) / ρ oded Easy Launcl ct / Internet Scroll I	n butto			eys	Earthlink ⁶ Real Player G2 JUNO MusicMatch Jukebox America Online ⁶ Lotus [®] SmartSuite [®] Millennium CD-ROM Software Selections CD-ROM Recovery CD-ROM WINDOWS 2000 PRELOAD ¹⁶ Microsoft [®] Windows [®] 2000		
Dimensions ¹⁹ Approximate weight ² Battery - type Battery - life ²¹ Charge time ²¹ - on / off	Approximately 1 with CD and bat Li-lon 8-cell 5xx: 3.4 hr, 7xx	ttery: 5.9 lb		6mm						
Architecture Port replicator Docking Station PC Card Std slots Ports Other features	Intel 440MX ch PCI 2.1, 32-bit O2® Micro 6812 audio and mod Optional IBM M None 1 Type I, 1 Type Two USB (Vers	33MHz (gra 2 for CardB lem functior fultiPort US e II, or 1 Typ sion 1.1) / pa) / RJ-45 (et		ini PCI) per I/O bit / PCI ouse / e	/ (parallel) / MCIA 2.1 / Z external DB-		ideo er /	Professiona - Some mode Business (V Publisher, S preloaded a - Utility Wizar - Easy Buttor - Access Thir - ThinkPad A - Owner Privi	ook,	
Video in and out Modem LAN Audio support Security	5xx/7xx: 802.1 6xx/9xx: 10/10 SoundBlaster® display mounted no internal micro	11b wireless 00 Mini PCI Pro™ audio d stereo sp ophone / ou	et on planar / AC97 6 / Mini PCI adapte ethernet adapter / support / CS4299 eakers / keyboard-t tput jack (3.5 mm) / disk password / set	r / Luce Intel 82 AC97 d based a mic in j	nt® chip set 559 etherne codec / udio control ack	et chipset s /		 PC-Doctor^{TI} Norton Anti IBM Update Quicken 20 ConfigSafe Adobe Acro Real Player MusicMatch 	virus™ (OEM edit e Connector™.14 01 bbat Reader • G2	Í
Limited warranty ¹¹ Warranty upgrade ¹⁵			e pickup and delive ding holidays, 9 ho			us day re	sponse	♦Software Se ♦Disk-to-Disk	elections CD-RON Recovery (in vice Partition)	

Video Modes with	4MB	OPTIONS
Resolution TFT 640x480 16M 800x600 16M 1024x768 16M* 1280x1024 *Supports 1024x76	16M 16M 16M 16M 16M 16M 16M 16M 16M 64K	- 64MB SO DIMM 100MHz NP 9 - 128M SO DIMM 100MHz NP 9 - IBM MultiPort USB Hub - i Series NiMH Battery 8-cell - i Series Li-Ion Battery 8-cell - i Series Battery Charger - Ultraslim 56 watt AC Adapter - 72W AC Adapter - 56W Car DC Adapter
program promotes computing solution and teachers by us 2000 Standard (Ac including Word 200 2000, and PowerP allows qualified inc an accredited parti	ywhere Learning (AAL) an affordable, mobile for students, parents ing Microsoft Office ademic Edition) 0, Excel 2000, Outlook oil of the control of the cont	- IBM USB Portable Diskette Dr - IBM USB Mobile Mouse - IBM 10/100 EtherJet CardBus - 10/100 CardBus PC Card (cat - 10/100 CardBus Adptr XJACK - IBM 8MB USB Memory Key - IGB Microdrive - USB to Parallel Printer Cable - IBM High Rate Wireless PC C - High Rate Wireless Access P - Bluetooth PC Card from IBM

_	- 64MB SO DIMM 100MHz NP SDRAM - 128M SO DIMM 100MHz NP SDRAM	
	- IBM MultiPort USB Hub	00N8215
	- i Series NiMH Battery 8-cell	02K6680
	- i Series Li-Ion Battery 8-cell	02K6728
	- i Series Battery Charger	02K6725
	- Ultraslim 56 watt AC Adapter - 72W AC Adapter	02K6545
		02K6699
	- 56W Car DC Adapter	02K3381
_	 IBM USB Portable Diskette Drive 	05K9276
	- IBM USB Mobile Mouse	33L3243
	 IBM 10/100 EtherJet CardBus Adapter 	
	 10/100 CardBus PC Card (cabled) 	09N3701
	 10/100 CardBus Adptr XJACK 3Com 	09N9801
	- IBM 8MB USB Memory Key	19K4513
	- 1GB Microdrive	07N5574
	 USB to Parallel Printer Cable 	19K4164
١l	 IBM High Rate Wireless PC Card 128 	
	 High Rate Wireless Access Pt 500 	09N9906
	 Bluetooth PC Card from IBM 	09N9812

Devices for IBM Portable Drive Bay 2000

- Portable Drive - 2X SuperDisk (- 8X/8X/24X CD- - 10GB Ultrabay	LS-120) Read/W	UltraBay rite Ultra	bay	19K44 27L345 08K95 08K95	51 69
- TOGB Ultrabay	2000 DI	sk Drive			
- 20GB Ultrabay	2000 DI	SK Drive		27L343	
- 32GB Ultrabay	2000 Di	sk Drive	*	08K95	11

*requires Second Hard Disk Drive Adapter 08K6068

ENERGY STAR compliant
Setup Guide, User's Reference,
Windows manual
Personalized Web-based support
International Warranty Service¹¹
24 hour x 7 day⁷ toll-free hardware
support during the warranty
World Wide Web: ibm.com/thinkpad
Buy Direct: 1 888 SHOP-IBM ext 7874

notebooks at a low price.22

1171-4MU Celeron™ 700 64M 13.3" TFT XGA 10G⁴ CD-ROM⁵ Modem 10/100 Two-spindle Millennium Smarts		2001
1171-6MU Pentium® III 750 64M 13.3" TFT XGA 10G CD-ROM Modem 10/100 Two-spindle Windows® 2000 Smarts 1171-8MU Pentium III 750 64M 13.3" TFT XGA 20G CD-RW Modem 10/100 Two-spindle Millennium Smarts 1171-9MU Pentium III 750 64M 13.3" TFT XGA 20G CD-RW Modem 802.11b Two-spindle Millennium Smarts 1171-6XU Celeron 700 64M 13.3" TFT XGA 10G CD-RW Modem 802.11b Two-spindle Millennium Smarts 1171-8XU Pentium III 750 64M 13.3" TFT XGA 20G CD-RW Modem 802.11b Two-spindle Millennium Smarts 1171-9XU Pentium III 750 64M 13.3" TFT XGA 20G CD-RW Modem 802.11b Two-spindle Millennium Smarts 1171-6NU Pentium III 750 64M 13.3" TFT XGA 10G CD-ROM Modem 802.11b Two-spindle Millennium Smarts 1171-6NU Pentium III 750 64M 13.3" TFT XGA 10G CD-ROM Modem 802.11b Two-spindle Millennium Modem	Guite Maý Suite May Suite, XP Aug	2001 2001 2001 2001 2001 2001 2001 2001

Processor	Intel® Mobile Celeron™ 700MHz¹ with 100MHz Front Side Bus or	То				
FIOCESSOI	Intel Mobile Pentium III 700 or 750MHz with SpeedStep™ technology with 100MHz Front Side Bus	W				
L2 cache	Celeron: 128KB / on die (at processor speed) / ECC	-				
Memory	Pentium III: 256KB / on die (at processor speed) / ECC 64MB standard / 192MB maximum ¹⁷ / SDRAM / non-parity / PC100 / 8MB utilized for video / standard memory integrated / one 144-pin SO-DIMM socket available					
Diskette drive CD-ROM CD-RW Ultrabay™ 2000 Disk (removable)	None standard / optional USB Portable Diskette Drive Some: CD-ROM / 24X-10X ⁵ speed / bootable / not removable Some: CD-RW / 8X-4X-24X ⁵ speed / bootable / not removable None / optional USB or PC Card attach Portable Drive Bay 2000 10 or 20GB ⁴ / S.M.A.R.T. ⁸ / average seek 12 ms (read) / ATA-5 66MB/sec	∨ - -				
Display Graphics controller Graphics - external	13.3" (338mm) SVGA (800x600) or XGA (1024x768) TFT color / Active Matrix Trident® CyberBlade Aladdin i1 / in M1632M Northbridge / 2X AGP 3D graphics / Unified Memory Architecture (UMA uses main 8MB of system memory) / MPEG2 External SVGA to 1024x768x16.7million colors at 85Hz	S				
Keyboard Pointing	85-key (multiple Fn key functions) / palm rest / ThinkPad Button and three customizable color-coded Easy Launch buttons ¹⁸ / pitch: 18mm; stroke: 2.3mm TrackPoint® / Press-to-Select / Internet Scroll Bar None	S				
ThinkLight™ UltraPort™ connectr	112112					
	⁹ Approximately 12.3 x 9.9 x 1.4" / 313 x 252 x 36mm with CD and battery: 5.9 lb / 2.67 kg Li-lon 8-cell / 14.4V x 3.6Ah <i>Celeron models</i> : 3.5 hrs, <i>Pentium III models</i> : 3.8 hrs ff 6 hrs / 3 hrs 56 watt universal AC adapter	A O				
Architecture Port replicator Docking Station PC Card Std slots	ALi chipset / M1632M Northbridge (memory, graphics, PCI) / M1535+ Southbridge (IDE, USB, parallel, audio, Mini PCI, power management) / PCI 2.1, 32-bit 33MHz / O2® Micro OZ6812 for CardBus Optional IBM MultiPort USB Hub None 1 Type I, Type II, or Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video	\$ C				
Ports	Two USB (Version 1.1) / parallel / keyboard / mouse / DB-15 monitor / RJ-11 (modem) / RJ-45 (ethernet models) / no serial port	•				
Modem LAN	56K ³ V.90 / Lucent® CSP1037B / AC97 modem codec Some: 802.11b wireless / Mini PCI adapter / Lucent® chip set / Lucent ORiNOCO™ and Cisco® Aironet compatible	•				
Audio support Security	Some: 10/100 Mini PCI ethernet adapter / Intel 82559 ethernet chipset SoundBlaster® Pro™ audio support / CS4299 AC97 codec / 32 voice wave table / stereo speakers in cover on both sides of display / keyboard-based audio controls / no internal microphone / stereo output jack (3.5 mm) / mono mic in jack (3.5mm) Power-on password / hard disk password / setup password / security keyhole	/				
Limited warranty*,11 Service options 15	1 year - customer carry in or EasyServ ^{TM,9} onsite pickup and delivery courier service On-site, Mon-Fri excluding holidays, 8 hours per day, next bus day response	•				

OPERATING SYSTEM PRELOAD16 Windows 2000 models

- Microsoft® Windows® 2000 Professional
- Disk-to-Disk Recovery (in hidden Service Partition)

Vindows Millennium models

- Microsoft® Windows® Millennium Edition
- Disk-to-Disk Recovery (in hidden Service Partition)

ADDITIONAL PRELOADED SOFTWARE

Office Standard Academic models

Microsoft Office Standard (Word, Excel, Outlook, PowerPoint)

SmartSuite® models

Lotus® SmartSuite Millennium (1-2-3, Organizer, FastSite, Word Pro, Freelance Graphics, Approach, SmartCenter)

Office XP Small Business models

- Microsoft Office XP Small Business²⁸ (Word, Excel, Outlook, Publisher, Small Business Tools)
- Microsoft Office XP Small **Business CD**

Common to most models

- **Utility Wizard**
- Easy Buttons Utility
- Access ThinkPad 2.5
- ThinkPad Assistant
- IBM Owner Privileges
- PC-Doctor™
- Norton AntiVirus™ (OEM edition)
- IBM Update Connector™,14
- Quicken 2001
- Adobe Acrobat Reader
- MusicMatch Jukebox
- ConfigSafe®(Windows 2000 odels)
 Adaptec® EZ CD Creator
- (CD-RW models)
- Adaptec Direct CD(CD-RW models) ♦ Lotus® SmartSuite® Millennium CD

Video Modes with 8MB

Resolution	LCD	Exteri	nal Mo	nitor
	TFT	60Hz	75Hz	85Hz
640x480	16M	16M	16M	16M
800x600	16M	16M	16M	16M
1024x768	16M**	16M	16M	16M
1280x1024		64K		

- Supports 1024x768 in virtual screen mode for SVGA models
- * The Anytime, Anywhere Learning (AAL) program promotes an affordable, mobile computing solution for students, parents and teachers by using Microsoft Office 2000 Standard (Academic Edition). The program allows qualified individuals associated with an accredited participating school (grade K-12) to buy select 1300 model ThinkPad notebooks at a low price.22

OPTIONS	
- 64MB SO DIMM 100MHz NP SDRAM	20L0254
- 128M SO DIMM 100MHz NP SDRAM	20L0255
 i Series NiMH Battery 8-cell 	02K6680
- i Series Li-Ion Battery 8-cell	02K6728
 i Series Battery Charger 	02K6725
 Ultraslim 56 watt AC Adapter 	02K6545
- 72W AC Adapter	02K6699
- 56W Car DC Adapter	02K3381
- IBM MultiPort USB Hub	00N8215
 IBM USB Portable Diskette Drive 	05K9276
- IBM USB Mobile Mouse	33L3243
 USB to Parallel Printer Cable 	19K4164
- IBM 8MB USB Memory Key	19K4513

- IBM 8MB USB Memory Rey 19K4513 - IBM 10/100 EtherJet CardBus Adapter 08L3147 - 10/100 CardBus PC Card (cabled) 09N3701 - 10/100 CardBus Adptr XJACK 3Com 09N9801 - IBM High Rate Wireless PC Card 128 09N9904 - High Rate Wireless Access Pt 500 09N9906 - Bluetooth PC Card from IBM 09N9812

07N5574

19K4480

- 1GB Microdrive - Portable Drive Bay 2000 Devices for IBM Portable Drive Bay 2000

- SuperDisk (LS-240) Drive UltraBay 08K9616 -8X/4X/24X CD-Read/Write Ultrabay 08K9569 - 15GB Ultrabay 2000 Disk Drive*** - 30GB Ultrabay 2000 Disk Drive*** - 32GB Ultrabay 2000 Disk Drive*** 08K9588 08K9593 08K9511
- *** requires Hard Disk Drive Adapter 08K6068 - ServicePac® 1yr IOR 9x5 NBD 30L9188
- ServicePac 2yr IOR 9x5 NBD 30L9189 - ServicePac 3yr IOR 9x5 NBD 30L9195

ENERGY STAR compliant Setup Guide, User's Reference, Windows manual Personalized Web-based support International Warranty Service¹ 24 hour x 7 day⁷ toll-free hardware support

during the warranty World Wide Web: **ibm.com**/thinkpad Buy Direct: 1 888 SHOP-IBM ext 7874

ThinkPad® i Series 1410, 1450 - withdrawn

IBM [®] ThinkPad [®]	i Series 1410		i Series 1450	
		urst / 66MHz simultaneously with CD-Fial ed / CAV / ATAPI / bootable	ROM / on right side e / not removable / on right s	
Type - model UPC code Disk - size / ms Disk controller	2611-410 0-87944-47551-4 3.2GB ⁴ / 13ms read / 14m	s write one internal disk / disk can	f palm rest to play music C 2611-450 0-87944-47552-1 4.3GB / 13ms read / 14ms not be removed or upgrade	
	12.1 inch TFT color / Act SVGA / 640x480 or 800x6 16.7 million simultaneou	300 / 35ms / 120 nits	13.3 inch TFT color / Act XGA / 640x480 or 800x60 65,536 simultaneous co	00 or 1024x768 / 30ms / 120 nits
•	NeoMagic™ MagicGraph 2MB / iDRAM™ (embedde	n128XD™ (NM2097B) / 12 ed) / color space conversic SVGA to 1024x768 with 6	8-bit SVGA accelerator / Zo on and interpolation in X an	pomed Video support / DDC1 and DDC2B Id Y axis / support for DCI, DirectDraw
Memory - std / max Memory - features	32MB / 256MB ¹⁷ SDRAM / non-parity / 66M 2 sockets for JEDEC 144- sockets accessed from bo	Hz / 3.3 volt / 64-bit pin SO DIMMs / one sock		WINDOWS 98 PRELOAD16 - Microsoft® Windows® 98 • Online User's Guide
Keyboard Pointing	Full-size 85-key (10 Fn ke Customizable color-code TrackPoint® / Press-to-Sel center button for scrolling	ey functions) / keyboard skd d ShortCut Keys / two W lect / Release-to-Select / di	ope with tilt feet / indows keys / palm rest ragging / click pace /	ThinkPad Configuration Program ThinkPad Customization Center Diskette Factory BIOS Utility Notebook Manager program
Dimensions / weight ² Battery - type / life ¹⁰ Charge time - on / off	13.1 x 10.1 x 1.85" (245 c NiMH / non-intelligent / 3.0 5.33 hrs on / 2.0 hrs off	,	7.7 lbs 2.8 hrs	Sleep Manager program ShortCut Keys Utility SafeOFF Utility
Other features Video in/out	None Port Replicator (for easy, 2 Type I or 2 Type II or 1 T PCMCIA 2.1 compatible / One USB / one 9 pin; 165 APM-aware BIOS / University None	controller / NS PC97338 (EIDE, graphics, PCMCIA I, parallel, infrared, moden one-step connection to de Type III / CardBus 32-bit / PC Card Standard 95 50A / one (IEEE P1284-A rsal AC adapter, 3 prong, I	FDC, IR, I/O) , USB, audio) 1) sktop peripherals) Zoomed Video (lower slot) , EPP, ECP, bidirectional) parrel, slim, 45 watts	IntelliQuest Registration 3.0 Lotus® SmartSuite Millennium Quicken 98 Tom Lehman Golf Pro 98 World Book Encyclopedia Rand McNally Trip Maker® Norton AntiVirus (OEM version) Access ThinkPad Ring Central Fax America Online®6 ConfigSafe IBM Update Connector
MPEG decoder Data/fax modem Audio Speakers Audio features Audio in/out jacks Infrared ports	None (software support for 56K³ / V.90 / integrated in 16-bit SoundBlaster Pro™ Altec Lansing® SoundGuid Dial volume control (left si Microphone jack (stereo) / None	n system / Lucent 1641B / audio support / Yamaha / de stereo speakers with Dy de) / internal microphone	/ not voice-capable YMF715E / full duplex namic Equalization Circuit™	 ♦ Lotus SmartSuite Millennium CD-RON ♦ World Book Encyclopedia CD-ROM ♦ Customization Center CD-ROM
Security		ervisor password / securit	y keyhole	⇒ Product Recovery CD-ROM
Supported oper system Limited warranty ¹¹ Service options ¹⁵	n Windows 98 only 1 year - EasyServ™.9 onsi On-site, M-F, 8-5, next bu from purchase date			3.2GB = DMA Mode 2 or PIO Mode 4 4.3GB = DMA Mode 2 or PIO Mode 4 All disks are S.M.A.R.T.8 compliant
The ThinkPad i Serie provide cable manage - Power jack - Parallel connector - Serial connector - External mouse conn - External monitor conn - Universal Serial Bus - Headphone jack - Line-in jack - Microphone jack	nector onnector nector	- 32MB SO DIMM 3.3v I - 64MB SO DIMM 3.3v I - 128MB SO DIMM 3.3v - i Series 1400 Port Rep - NiMH Battery - Li-Ion Battery (non-int - 45 watt AC Adapter (b - IBM Mini-Mouse (black	NP SDRAM 20L0241 NP SDRAM 01K1150 05K5591 02K6525 elligent) 02K6576 parrel; 3 prong) 11J8702 x) 07G0033 //us/accessories (U.S.) or	FEATURES PC 97 compliant ACPI ready (APM enabled) Setup Guide, User's Reference, Windows 98 manual, and Quick Reference Card System Status Indicators Plug and Play 1.0a Light green mode, standby mode, and hibernation mode
Resolution TFT 640x480 16M 800x600 16M 1024x768 64K 1280x1024	External Monitor 60Hz 75Hz 85Hz 16M 16M 16M 16M 16M 16M 64K 64K	- ThinkPad Proven™ so www.ibm.com/pc/us/th Pressing F1 during start	inkpad/proven)	ENERGY STAR compliant International Warranty Service ¹¹ 24 hour / 7 day ⁷ telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

ThinkPad® i Series 1411, 1451 - withdrawn

IBM [®] ThinkPad [®]	i Series 1411		i Series 1451	
Processor type Processor features L2 cache Diskette drive External FDD port CD-ROM	None since diskette intern CD-ROM / 24X-10X ⁵ spee	elined burst / 66MHz simultaneously with CD-F	,	All-in-one design means the disk, diskette drive, and CD-ROM are all within the covers of the notebook
DVD Audio Control Panel	None supported Instant Audio (external CI	D player controls in front of	f palm rest to play music C	Ds for up to six hrs when system off/closed)
Type - model UPC code Disk - size / ms Disk controller Avail / withdrawn date	2611-411 0-87944-47553-8 4.3GB ⁴ / 13ms read / 14m EIDE / PCI 2.1 / supports January 1999 / April 2002	ns write one internal disk / disk car	2611-451 0-87944-47554-5 n not be removed or upgrad	All models: - C: drive is FAT16 of 2GB - D: drive is FAT32 of
Display - size and type Display - technology	12.1 inch TFT color / Act SVGA / 640x480 or 800x6 16.7 million simultaneou	600 / 35ms / 120 nits	13.3 inch TFT color / Act XGA / 640x480 or 800x60 65,536 simultaneous co	00 or 1024x768 / 30ms / 120 nits
Graphics - controller	NeoMagic™ MagicGraph 2MB / iDRAM™ (embedde	n128XD™ (NM2097B) / 12a ed) / color space conversio	8-bit SVGA accelerator / Zo on and interpolation in X an	oomed Video support / DDC1 and DDC2B d Y axis / support for DCI, DirectDraw
Graph - arch/data path Graphics - features	PCI 2.1 / 32-bit / external 3 Simultaneous LCD and C	SVGA to 1024x768 with 65	5,536 colors at 75Hz	
Memory - std / max Memory - features	32MB / 256MB ¹⁷ SDRAM / non-parity / 66M 2 sockets for JEDEC 144- sockets accessed from bo	-pin SO DIMMs / one sock	et used by std memory / eld by phillips-head screws	WINDOWS 98 PRELOAD ¹⁶ - Microsoft® Windows® 98 • Online User's Guide
Keyboard	Full-size 85-key (10 Fn ke	ey functions) / keyboard slo	ope with tilt feet /	ThinkPad Configuration Program ThinkPad Customization Center
Pointing	Customizable color-coded TrackPoint® / Press-to-Sel center button for scrolling (lect / Release-to-Select / dr	agging / click pace /	Diskette Factory BIOS Utility
Dimensions/weight ²	13.1 x 10.1 x 1.85" (245 c	·	7.7 lbs	Notebook Manager program Sleep Manager program
Battery - type / life ¹⁰ Charge time - on / off	NiMH / non-intelligent / 3.0 5.33 hrs on / 2.0 hrs off	0 hrs / left side	2.7 hrs	ShortCut Keys Utility SafeOFF Utility IntelliQuest Registration 3.0
Architecture Docking station Port replicator PCMCIA™ slots USB / serial / parallel Other features	PCI 2.1 / 32-bit / 33Mhz (E ISA (audio, diskette, seria None Port Replicator (for easy, 2 Type I or 2 Type II or 1 T PCMCIA 2.1 compatible /	controller / NS PC97338 (EIDE, graphics, PCMCIA, I I, parallel, infrared, modern one-step connection to des Type III / CardBus 32-bit / PC Card Standard 95 50A / one (IEEE P1284-A,	FDC, IR, I/O) JSB, audio) 1) sktop peripherals) Zoomed Video (lower slot) EPP, ECP, bidirectional)	Lotus® SmartSuite® Millennium Quicken 98 Tom Lehman Golf Pro 98 World Book Encyclopedia Rand McNally Trip Maker® Norton AntiVirus™ (OEM version) Access ThinkPad Ring Central Fax America Online®6
Office features Video in/out MPEG decoder Data/fax modem Audio Speakers Audio features Audio in/out jacks Infrared ports	None None (software support fo 56K ³ / V.90 / integrated in 16-bit SoundBlaster Pro™	or MPEG-1 in Windows 98) system / Lucent 1641B / n l audio support / Yamaha Y de stereo speakers with Dyi de) / internal microphone	ot voice-capable MF715E / full duplex namic Equalization Circuit™	 ♦ Lotus SmartSuite Millennium CD-ROM ♦ World Book Encyclopedia CD-ROM ♦ Customization Center CD-ROM
Security	Power-on password / sup	ervisor password / security	/ keyhole	⇒ Product Recovery CD-ROM
Supported oper system Limited warranty*, ¹¹ Service options ¹⁵	Windows 98 only 1 year - EasyServ ^{TM,9} onsi On-site, M-F, 8-5, next bu from purchase date	te pickup and delivery cour is day (72 cities) / service a	ier service agreements up to 5 yrs	4.3GB = DMA Mode 2 or PIO Mode 4 All disks are S.M.A.R.T. ⁸ compliant
The ThinkPad i Serie provide cable manage - Power jack - Parallel connector - Serial connector - External mouse conn - External keyboard coresternal keyboard coresternal monitor conn - Universal Serial Bus - Headphone jack - Line-in jack - Microphone jack - Microp	ector nnector nector	- 32MB SO DIMM 3.3v f - 64MB SO DIMM 3.3v f - 128MB SO DIMM 3.3v f - 128MB SO DIMM 3.3v f - 1 Series 1400 Port Rep - NiMH Battery - Li-Ion Battery (non-int - 45 watt AC Adapter (b - IBM Mini-Mouse (black - Visit www.ibm.com/pc/ca/a - ThinkPad Proven™ sol www.ibm.com/pc/us/th	NP SDRAM 20L0241 NP SDRAM 01K1150 licator 05K5591 02K6525 elligent) 02K6576 parrel; 3 prong) 11J8702 07G0033 /us/accessories (U.S.) or ccessories (CA) utions¹²(visit inkpad/proven) /us/thinkpad/iseries (U.S.)	Pressing F1 during startup brings up BIOS Utility FEATURES PC 97 compliant ACPI ready (APM enabled) Setup Guide, User's Reference, Windows 98 manual, and Quick Reference Card System Status Indicators Plug and Play 1.0a Light green mode, standby mode, and hibernation mode ENERGY STAR compliant International Warranty Service ¹¹ 24 hour / 7 day ⁷ telephone, bulletin board, electronic, and Internet (www.ibm.com/pc/us) support

IBM® ThinkPad®	i Series 1412		i Series 1452		i Series 1472	All-in-one design means the disk,	
Processor type L2 cache Diskette drive CD-ROM DVD	Celeron: 128KB; Pentium Internal 3.5" 1.44MB / use 1412: CD-ROM / 24X- 1452/72: 2X-1X ⁵ DVD-RO	I [®] Mobile Celeron™ 366MHz¹ or Mobile Pentium® II 366MHz / 66MHz system bus eron: 128KB; Pentium II: 256KB; All: onboard (full spd) / sync pipelined burst / EC rnal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side 2: CD-ROM / 24X-10X⁵ speed / CAV / ATAPI / bootable / not removable / on right 2/72: 2X-1X⁵ DVD-ROM / bootable / not removable / on right side ant Audio (external CD player controls in front of palm rest to play music CDs for up t					
Audio Control Panel Type - model UPC code Processor Disk - size / ms Disk controller CD or DVD Avail / withdrawn date Display (diagonal)	2611-412 0-87944-49109-5 Celeron 366MHz 4.8GB ⁴ / 13ms read / 14m EIDE / PCI 2.1 / supports 24X-10X CD-ROM June 1999 / September 19 12.1" TFT / SVGA	ns write one internal c	2611-452 0-87944-49108 Celeron 366MH 4.8GB / 13ms re	.8 lz ead / 14ms write be removed or upgra vitember 1999	2611-472 0-87944-49107-1 Pentium II 366MHz 6.4GB / 12ms read /	14ms write	
Display - size and type Display - techology	e 12.1 inch (308mm) TFT o SVGA / 640x480 or 800x 16.7 million simultaneou	600 / 30ms / 1	I20 nits	XGA / 640x480 or 8	TFT color / Active Matr 00x600 or 1024x768 / 3 aneous colors / 200 to	30ms / 130 nits	
Graphics - controller Graphics - features	NeoMagic™ MagicMedia interface / 2.5MB / SGRA External SVGA to 1024x7	256AV™ (NM M (embedded	2200) / Accelera) / motion comp	ted Graphics Port / ensation / color space	AGP-1x / 128-bit engine ee conversion / DDC2B		
Memory - std / max Memory - features	32MB / 256MB ¹⁷ SDRAM / non-parity / 66M 2 sockets for JEDEC 144- sockets accessed from bo	IHz / 3.3 volt / pin SO DIMMs	64MB / 256MB 64-bit s / one socket use	ed by std memory /	64MB / 256MB WINDOWS 98		
Keyboard Pointing	Full-size 85-key (10 Fn ke Customizable color-coded TrackPoint® / Press-to-Sel	y functions) / ld ShortCut K eect / Release-	keyboard slope w eys / two Window to-Select / draggi	th tilt feet s keys / palm rest ng / click pace /	Microsoft® Windows Online User's Guide Easy Buttons Utility IBM Owner Privilege MediaMatics DVD		
Dimensions / weight ² Battery - type / life ¹⁰ Charge time - on / off	13.1 x 10.1 x 1.85" (245 d	13.1 x 10.1 x 1.85" (245 cubic inches) / 1412: 7.4 lbs 1452/72: 7.7 lbs Li-lon / non-intelligent / left side / 1412: 3.3 hrs 1452/72: 3.0 hrs • Marketing Screen Sa • Marketing Demo • Farthlink					
Architecture Docking station Port replicator PCMCIA™ slots USB / serial / parallel Other features	ALI® Aladdin IV M1621 North Bridge / M1533 (EIDE, USB, PCI to ISA bdg) AGP for graphics / O2® Micro 6833D1 PCMCIA controller / PCI 2.1 32-bit 33Mhz (EIDE, modem, PCMCIA, USB, audio) / ISA (diskette, serial, parallel, infrared) / NS PC97338 None ThinkPad i Series 1400 Port Replicator 2 Type I or 2 Type II or 1 Type III / CardBus 32-bit / Zoomed Video (upper slot) / PCMCIA 2.1 compatible / PC Card Standard 95 One USB / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional				Tom Lehman Golf Pro 98 World Book Encyclopedia Norton AntiVirus™ (OEM version Access ThinkPad RingCentral Fax America Online®6 ConfigSafe® ConfigSafe®		
Video (TV) out MPEG decoder Data/fax modem Audio Speakers Audio features Audio in/out jacks Infrared ports	APM-aware BIOS / Unive 1412: None 1452/72: S- None (software support fo 56K³ V.90 / integrated in 16-bit SoundBlaster Pro™ Altec Lansing® SoundGuid Dial volume control (left s Microphone jack (stereo) None	Video out con or MPEG-1 in system / Luce audio support e stereo speal ide) / internal	n on side (does r Windows 98) nt® 1644 / not vo / PCI / ES1946 / r kers w/ Dynamic E microphone	oot require cable) ice-capable no full duplex support qualization Circuit™	IBM Global Network Netscape Commun ThinkPad on the Net Lotus SmartSuite M World Book Encycle Software Selections Product Recovery C	(IGN Dialer) icator t illennium CD-ROM ppedia CD-ROM s CD-ROM	
Security Supported oper system Limited warranty ¹¹ Service options ¹⁵	Power-on password / sup Windows 98 only 1 year - ThinkPad EasyS On-site, M-F, 8-5, next bu	erv™.9 (door-to	o-door depot repai	r service) or carry-in	4.8GB = DMA Mode 2 6.4GB = DMA Mode 2 All disks are S.M.A.R.	or PIO Mode 4	
provide cable manage - Power jack - Parallel connector - Serial connector - External mouse conr	nector	- 64MB SO - 128MB SC	OPTION DIMM 3.3v NP SI DIMM 3.3v NP SI DIMM 3.3v NP S 0 DIMM 3.3v NP S 00 Port Replicato	DRAM 76H0294 DRAM 20L0241 DRAM 01K1150	Pressing F1 during sta BIOS Utility All models: - C: drive is FAT16 of - D: drive is FAT32 of	artup brings up 2GB	
- External keyboard co - External monitor con - Universal Serial Bus - Headphone jack - Line-in jack - Microphone jack -	nector	45 watt ACVisit www. or www.ibiThinkPad www.ibm.cVisit www.	ibm.com/pc/us/acm.com/pc/ca/accom/pc/ca/accom/pc/us/thinkpom/pc/us	prong) 11J8702 ccessories (U.S.) essories (CA) s¹² (visit ad/proven) inkpad/iseries	FEATU PC 98-compliant ACPI ready (APM enal Setup Guide, User's Re 98 manual, and Quick System Status Indicator Plug and Play 1.0a Light green mode, stan hibernation mode ENERGY STAR compl International Warrant 24 hour / 7 day teleph board, fax, electron (www.ibm.com/pc/u	bled) eference, Windows k Reference Card ors dby mode, and liant y Service ¹¹ one ⁷ , bulletin ic, and Internet	

IBM® ThinkPad®	i Series 1420	i Series 1460	i Series 1480	All-in-one design means the disk,
Processor type L2 cache Diskette drive CD-ROM DVD	128KB / at processor s Internal 3.5" 1.44MB / u 1420: CD-ROM / 24. 1460/80: 4X-1X ⁵ DVD-F	433 or 466MHz¹ / 66MHz system bus speed / sync pipelined burst / ECC / write-back se simultaneously with CD-ROM / on left side X-10X⁵ speed / CAV / ATAPI / bootable / not remova IOM / bootable / not removable / on right side	· ·	diskette drive, and CD-ROM are all within the covers of the notebook
Audio Control Panel Type - model UPC code Processor Disk - size / ms Disk controller CD or DVD Avail / withdrawn date Display (diagonal)	2621-420 0-87944-50852-6 Celeron 433MHz 4.8GB ⁴ / 13ms read / 14	ts one internal disk / disk can not be removed or up 4X-1X DVD-ROM	2621-480 0-87944-50826-7 Celeron 466MHz 6.4GB / 12ms read	/ 14ms write
	e 13.0 inch (330mm) HPA SVGA / 640x480 or 800 16.7 million simultane	x600 / 30ms / 120 nits XGA / 640x480 or	n) TFT color / Active Ma r 800x600 or 1024x768 . Iltaneous colors / 200 t	/ 30ms / 130 nits
Graphics - controller Graphics - features Memory - std / max	4MB SDRAM / motion	M / Accelerated Graphics Port / AGP 2X / 64-bit gr compensation / multiple monitor support ²⁶ / DDC2B x768x16.7 million colors at 85Hz and 1280x1024x2 64MB / 256MB	3	
Memory - features	2 sockets for JEDEC 14	MHz / 3.3 volt / 64-bit data path / 4-pin SO DIMMs / one socket used by std memory /		B PRELOAD16
Keyboard Keyboard light Pointing Dimensions / weight²	Full-size 85-key (multiple four customizable color- 1460/80: ThinkLight TM / TrackPoint [®] / Press-to-Scenter button for scrolling 1420: 12.9x10.6x1.61" f	cottom via removing cover held by phillips-head screw e. Fn key functions) / slope with tilt feet / palm rest / coded Easy Launch buttons / two Windows keys keyboard light (to work in low light) w/ power button elect / Release-to-Select / dragging / click pace / g (Internet Scroll Bar) or magnifying glass / spare cap ront and 1.75" rear / 7.75 lbs	Online User's Guide Easy Buttons Utility	es
Battery - type Battery - life ¹⁰ Charge time ¹⁰ - on / of	1420: NiMH / intelligent 1420: 2.0 hrs 1460/8	5" front and 1.69" rear / 7.65 lbs / right side	 Quicken 99 Tom Lehman Golf F World Book Encyclo Norton AntiVirus™ (0 	pedia
Architecture Docking station Port replicator PCMCIA™ slots USB / serial / parallel Other features	ALI® Aladdin IV M1621 AGP for graphics / O2® PCI 2.1 32-bit 33Mhz (E ISA (diskette, serial, par None None 1 Type I or 1 Type II or One USB / one 9 pin; 10	North Bridge / M1533 (EIDE, USB, PCI to ISA bdg) Micro 6833 PCMCIA controller / IDE, modem, PCMCIA, USB, audio) / allel, infrared) / NS PC97338 1 Type III / CardBus 32-bit / Zoomed Video 3550A / one (IEEE P1284-A, EPP, ECP, bidirectional versal AC adapter, 3 prong, barrel, slim, 56 watts	 Access ThinkPad RingCentral Fax America Online^{®6} ConfigSafe[®] IBM Update Connec PC-Doctor™ (system IBM Global Network 	tor n diagnostics) (IGN Dialer) cator
Video (TV) out MPEG decoder Data/fax modem Audio Speakers Audio features Audio in/out jacks	1420: None 1460/80: S None (software support 56K³ V.90 / integrated in not voice-capable 16-bit SoundBlaster Pro ^T Altec Lansing® SoundGu Dial volume control (fro	S-Video out conn on side (does not require cable) for MPEG-1 in Windows 98) in system / Lucent® 1646 / Mini PCI Type IIIb / Maudio support / PCI / ES1946 / no full duplex support ide stereo speakers w/ Dynamic Equalization Circuit® it side) / internal microphone io) / headphone jack (stereo) / line-in jack (all left side	4.8GB = DMA Mode 2	Millennium CD-ROM ppedia CD-ROM CD-ROM D-ROM 2 or PIO Mode 4
Infrared ports Security	None '	pervisor password / security keyhole	All disks are S.M.A.R Pressing F1 during	•
Supported oper system Limited warranty ¹¹ Service options ¹⁵	Windows 98 only	Serv™.9 (door-to-door depot repair service) or carry-i	BIOS Utility - Notebook Manager operation All models:	available during
Mars Red Metallic,Te Eclipse Blue Metallic,	optional color covers*: rra Green Metallic, Lunar Grey Metallic, da Green, Polaris Blue	OPTIONS - 32MB SO DIMM 3.3v NP SDRAM 76H0294 - 64MB SO DIMM 3.3v NP SDRAM 20L0241	FEATU	remaining space
Visit www.ibm.com/picover.html for more in *Supplied by iBrands	c/us/thinkpad/iseries/ nformation and to order under license. Not	- 128MB SO DIMM 3.3v NP SDRAM - Li-lon Battery - Ultraslim 56 watt AC Adapter (3 prong) - 10/100 EtherJet™ CardBus Adapter 34L1301	PC 98-compliant ACPI enabled Setup Guide, User's F	Reference,
Manufactured or wa Color depth LCD Resolution TFT 640x480 16M 800x600 16M 1024x768 16M*	External Monitor 60Hz 75Hz 85Hz 16M 16M 16M 16M 16M 16M 16M 16M 16M	 Visit www.ibm.com/pc/us/accessories (U.S.) or www.ibm.com/pc/ca/accessories (CA) ThinkPad Proven™ solutions¹² (visit www.ibm.com/pc/us/thinkpad/proven) 	Windows 98 manual Reference Card System Status Indicat Plug and Play 1.0a Standby mode and hil ENERGY STAR-comp International Warran	ors pernation mode liant ty Service ¹¹
1280x1024 1600x1200 * 14.1" model only	16M 16M 16M 64K 64K 64K	- Visit www.ibm.com/pc/us/thinkpad/iseries (U.S.) or www.ibm.com/pc/ca/thinkpad (CA)	24 hour / 7 day ⁷ telep board, fax, electron (www.ibm.com/pc/u	ic, and Internet

ThinkPad® i Series 1421, 1441 - withdrawn

IBM [®] ThinkPad [®]	i Series 1421		i Series 1441		All-in-one design means the disk,		
Processor type L2 cache Diskette drive CD-ROM DVD Audio Control Panel	128KB / at processor s Internal 3.5" 1.44MB / us 1421: CD-ROM / 24X-10 1441: 4X-1X ⁵ DVD-ROM	466MHz ¹ / 66MHz system bus peed / sync pipelined burst / EC se simultaneously with CD-ROM X^5 speed / CAV / ATAPI / bootable / not removable / on riant Audio (external CD player or	/ on left side ble / not removable / ght side	_	diskette drive, and CD-ROM are all within the covers of the notebook		
Type - model UPC code Disk - size / ms Disk controller CD or DVD Available date Withdrawn dare	2621-421 0-87944-52265-2 6.0GB ⁴ / 12ms read / 14	ms write / ATA-66 / S.M.A.R.T. ^s s one internal disk / disk can not	2621-441 0-87944-53544-7 6.0GB / 12ms read be removed or upg 4X-1X DVD-ROM January 2000	/ 14ms write / ATA-66 /			
Display - size and type Display - technology			SVGA / 640x480 o	TFT color / Active Matr r 800x600 / 30ms / 120 taneous colors / 80 to	nits		
Graphics - controller	ATI™ Rage Mobility-M™ 4MB SDRAM / motion of	/ Accelerated Graphics Port / compensation / multiple monitor	2X AGP / 64-bit gra support ²⁶ / DDC2B	phics /	Contrast		
Graphics - features		<u>x768x16.7 million colors at 85Hz</u>		6 colors			
Memory - std / max Memory - features	2 sockets for JEDEC 144	I MHz / 3.3 volt / 64-bit data path / 1-pin SO DIMMs / one socket use ottom via removing cover held by	64MB / 256MB d by std memory / phillips-head screws	WINDOWS 98 - Microsoft® Windows® - Online User's Guide			
Keyboard Keyboard light Pointing	Full-size 85-key (multiple four customizable color- None	Fn key functions) / slope with tilt coded Easy Launch buttons ¹⁸ / elect / Release-to-Select / draggir	feet / palm rest / two Windows keys	 Easy Buttons Utility IBM Owner Privileges MediaMatics DVD Marketing Screen Sa 			
		(Internet Scroll Bar) or magnifying		Marketing Demo Earthlink			
Dimensions ¹⁹ / weight	² 1421: 12.9x10.6x1.8" / 7	7.8 lbs 1441: 12.9x10.6	x1.6" / 7.7 lbs	Quicken 99 Tom Lehman Golf Pr	o 98		
Battery - type Battery - life ¹⁰ Charge time ¹⁰ - on / of	1421: NiMH / intelligent / 1421: 2.0 hrs f 1421: 2.5 hrs on / 2.1 hr	1441: 3.0 hrs	elligent / right side / 3.1 hrs off	World Book Encyclop Norton AntiVirus™ (O Access ThinkPad	edia		
Architecture Docking station Port replicator PCMCIA™ slots USB / serial / parallel Other features Video (TV) out MPEG decoder Data/fax modem	AGP for graphics / O2® I PCI 2.1 32-bit 33Mhz (E ISA (diskette, serial, para None None 1 Type I or 1 Type II or 1 One USB / one 9 pin; 16 ACPI power mgmt / Univ 1421: None 1441: S-Vi None (software support 56K³ V.90 / integrated in not voice-capable	North Bridge / M1533 (EIDE, US Micro 6833 PCMCIA controller / IDE, modem, PCMCIA, USB, audallel, infrared) / NS PC97338 Type III / CardBus 32-bit / Zoo 5550A / one (IEEE P1284-A, EPP/ersal AC adapter, 3 prong, barred deo out connector on side (does for MPEG-1 in Windows 98) a system / Lucent® 1646 / Mini PC	med Video , ECP, bidirectional) sl, slim, 56 watts not require cable)	 Ricess Tillikrau RingCentral Fax America Online®6 ConfigSafe® IBM Update Connector¹⁴ PC-Doctor™ (system diagnostics) IBM Global Network (IGN Dialer) Netscape Communicator ThinkPad on the Net Tom Lehman Golf Pro 98 CD-ROM Lotus® SmartSuite® Millennium CD- World Book Encyclopedia CD-ROM Software Selections CD-ROM Product Recovery CD-ROM 			
Audio Speakers Audio features Audio in/out jacks Infrared ports	Altec Lansing® SoundGui Dial volume control (fron	d audio support / PCI / ES1946 / r de stereo speakers w/ Dynamic E tt side) / internal microphone) / headphone jack (stereo) / line	qualization Circuit™	- Pressing F1 during st			
Security	<u>'</u>	pervisor password / security key		All models:			
Limited warranty ¹¹ Service options ¹⁵	1 year - ThinkPad Easys On-site, M-F, 8-5, next b	Serv ^{™.9} (door-to-door depot repai ous day (72 cities)	r service) or carry-in	- C: drive is FAT16 of 2 - D: drive is FAT32 of re			
Mars Red Metallic, Te Eclipse Blue Metallic Sirius Red, Androme Visit www.ibm.com/p	Lunar Grey Metallic, da Green, Polaris Blue c/us/thinkpad/iseries/ nformation and to order under license. Not	OPTIONS - 32MB SO DIMM 3.3v NP SDR - 64MB SO DIMM 3.3v NP SDR - 128MB SO DIMM 3.3v NP SDI - Li-lon Battery - Ultraslim 56 watt AC Adapter (- 10/100 EtherJet™ CardBus Ad - MultiPort USB Hub	AM 20L0241 RAM 01K1150 02K6603 3 prong) 02K6545	FEATUR Owner Privileges ¹³ pro PC 98-compliant ACPI enabled Setup Guide, User's Re Windows 98 manual, Reference Card System Status Indicato	ogram eference, and Quick		
Color depth LCD Resolution TFT 640x480 16M 800x600 16M 1024x768 1280x1024 1600x1200	External Monitor 60Hz 75Hz 85Hz 16M 16M 16M 16M 16M 16M 16M 16M 16M 16M 16M 16M 64K 64K 64K	 Visit www.ibm.com/pc/us/acces or www.ibm.com/pc/ca/access ThinkPad Proven™ solutions¹² www.ibm.com/pc/us/thinkpad/ Visit www.ibm.com/pc/us/think(U.S.) or www.ibm.com/pc/ca/ 	sories (CA) (visit (proven) kpad/iseries	Plug and Play 1.0a Standby mode and hibe ENERGY STAR-compli International Warranty IBM SystemXtra®.35 24 hour / 7 day ⁷ telepho board, fax, electronic, (www.ibm.com/pc/us)	ernation mode ant Service ¹¹ one, bulletin and Internet		

IBM® ThinkPad®	i Series 1422	i Series 1442	i Series	1482	i Series 1483	i Series 1492		
Processor type L2 cache Diskette drive CD-ROM DVD Audio Control Panel	Celeron: 128KB; Pentii. Internal 3.5" 1.44MB / o 1422: CD-ROM 1442/82/92: 6X-1X ⁵ DV	^d 500MHz ¹ or Mobile Pentum III: 256KB; All: at production left side / 24X-10X ⁵ speed / CAV / / /D-ROM / bootable / not re- tant Audio (external CD pl	eed / sync pipe ootable / not re on right side	elined burst / ECC movable / right side	тпе потероок			
	2621-422							
Display (diagonal) Display	12.1 inch (308mm) TFT SVGA / 640x480 or 800	0x600 / 50ms / 120 nits		13.0 inch (330 SVGA / 640x4	14.1" TFT / XGA mm) HPA color / Di 80 or 800x600 / 150	ms / 100 nits		
	14.1 inch (358mm) TFT XGA / 640x480 or 800x	ous colors / 150 to 1 contr color / Active Matrix 600 or 1024x768 / 70ms / ous colors / 120 to 1 cont	130 nits	15.0 inch (381 XGA / 640x480	multaneous colors mm) TFT color / Ac or 800x600 or 102 multaneous colors	tive Matrix 4x768 / 80ms / 120 nits		
Graphics - controller Graphics - features	ATI™ Rage Mobility-M 4MB SDRAM / motion	M / Accelerated Graphics compensation / multiple rx768x16.7 million colors a	Port / AG	F 2X / 64-bit g	raphics / 3			
Memory - std / max Memory - features	32MB / 256MB ¹⁷ SDRAM / non-parity / 10	64MB / 256MB 00MHz / 3.3 volt / 64-bit dat	64MB / 2	56MB	64MB / 256MB	64MB / 256MB		
Wellory - leatures	2 sockets for JEDEC 14	4-pin SO DIMMs / one soc	ket used b			VS 98 PRELOAD16		
Keyboard Keyboard light Pointing	Full-size 85-key (multiple four customizable color: 1482/83/92: ThinkLight TrackPoint® / Press-to-S	oottom via removing cover he e Fn key functions) / slope -coded Easy Launch butt t™ / keyboard light (to work Select / Release-to-Select / g (Internet Scroll Bar) or ma	with tilt fee ons ¹⁸ / two k in low lig dragging /	et / palm rest / o Windows key ht) click pace /	ThinkPad Utilitie Easy Buttons U Access ThinkPa Intelligent Onlin	Itility ad ie Information System		
Dimensions ¹⁹	<i>1422:</i> 12.9x10.6x1.61" <i>82/83:</i> 12.9x10.6x1.59"	front and 1.75" rear 1442: front and 1.73" rear 1492	1.59" fror	nt and 1.73" rea	MediaMatics D\ Markating Core	VD (DVD models) en Saver		
Weight ² Battery - type Battery - life ¹⁰ Charge time ¹⁰ - on / of	1422/42/82: NiMH / inte 1422/42/82: 2.0 hrs	4 lbs; 1482/92: 7.9 lbs lligent / right 1483/92: Li-l 1483/92: 3.5 / 2.1 hrs off 1483/92: 4.0	hrs		EarthlinkQuicken 2000	s™ (OEM version)		
Architecture Port replicator Docking station PCMCIA™ slots USB / serial / parallel Other features	Intel 440BX AGPset / F AGP for graphics / TI14 PCI 2.1 32-bit 33Mhz (E ISA (diskette, serial, pa None None 1 Type I or 1 Type II or One USB / one 9 pin; 10	PIIX4M (EIDE, USB, PCI to	SB, audio) 338 Super it / Zoome A, EPP, E	/ / I/O d Video CP, bidirectiona	 America Online ConfigSafe® IBM Update Co PC-Doctor™ (s) IBM Global Net Netscape Com ThinkPad on the 	onnector ¹⁴ ystem diagnostics) work (IGN Dialer) municator e Net Reader		
Video (TV) out MPEG decoder Data/fax modem Audio Speakers Audio features Audio in/out jacks Infrared ports	S-Video out conn on sic None (software support 56K ³ V.90 / integrated in 16-bit SoundBlaster Pro ^T Altec Lansing® SoundGL Dial volume control (fro	de (does not require cable) for MPEG-1 in Windows 9 n system / Lucent® 1646 / M audio support / PCI / ES1 lide stereo speakers w/ Dyrnt side) / internal micropho b) / headphone jack (stereo) 98) Mini PCI T 946 / full d namic Equa one	ype IIIb / duplex support alization Circuit ⁱ	Real Jukébox Actus® SmartSu Tom Lehman G World Book En Software Selec Product Recove Pressing F1 dui	uite® Millennium CD-ROM Golf Pro 98/99/2000 CD cyclopedia CD-ROM tions CD-ROM		
Security		ard disk password / superv	isor pass	word / security	BIOS UtilityNotebook Mana operation	ager available during		
Limited warranty ¹¹ Service options ¹⁵	On-site, M-F, 8-5, next	∕Serv ^{™,9} (door-to-door depo bus day (72 cities)	ot repair s	ervice) or carry-	C: drive is FAT1			
Metallic, Terra Green Metallic, Lunar Grey Andromeda Green, F Visit www.ibm.com/pcover.html for more ii *12.1" and 14.0" mod Color depth LCD Resolution TFT 640x480 16M 800x600 16M	dels only ²⁰): Mars Red Metallic, Eclipse Blue Metallic, Sirius Red, Polaris Blue portion and to order dels only ²⁰ External Monitor 60Hz 75Hz 85Hz 16M 16M 16M 16M 16M	- 32MB SO DIMM 100MH - 64MB SO DIMM 100MH - 128MB SO DIMM 100M - IBM MultiPort USB Hub - Li-lon Battery - Ultraslim 56 watt AC Ac - 10/100 EtherJet™ Card - Visit www.ibm.com/pc/car - ThinkPad Proven™ soli	Hz NP SDI MHz NP SI dapter (3 p Bus Adap fus/access /accessor utions ¹² (vi	RAM 20L025/ DRAM 20L025/ 00N821 02K660/ rong) 02K654/ ter 34L130/ ories (U.S.)	Owner Privilege: PC 98-compliant ACPI enabled Setup Guide, Use Windows manu Reference Carc System Status In Plug and Play 1.0	t er's Reference, al, and Quick dicators ond hibernation mode compliant		
1024x768 16M ² 1280x1024 1600x1200 * 14.1 and 15.0" mod	16M 16M 64K 256 256	www.ibm.com/pc/us/th - Visit www.ibm.com/pc/ (U.S.) or www.ibm.com	 /us/thinkpa	nd/iseries	24 hour / 7 day ⁷ board, fax, elec	triality Service telephone, bulletin ctronic, and Internet l/pc/us) support		

ThinkPad® i Series 1512, 1552 - withdrawn

IBM [®] ThinkPad [®]	i Series 1512	i Series 1552			All-in-one design means the disk,
Processor type L2 cache Diskette drive CD-ROM DVD	128KB / onboard (full s Internal 3.5" 1.44MB / u CD-ROM / 24X-10X ⁵ sp None available	366MHz¹ / 66MHz system bus spd) / sync pipelined burst / ECC / se simultaneously with CD-ROM eed / CAV / ATAPI / bootable / no	/ on right side t removable / on righ		diskette drive, and CD-ROM are all within the covers of the notebook
Audio Control Panel	Instant Audio (external	CD player controls in front of paln		Ds for up to six hrs wher	system off/closed)
Type - model UPC code Disk - size / ms Disk controller CD or DVD Avail / withdrawn date Display (diagonal)	2611-512 0-87944-4505433 4.8GB ⁴ / 13ms read / 14 EIDE / PCI 2.1 / suppor 24X-10X CD-ROM July 1999 / September 12.1" TFT / SVGA	ts one internal disk / disk can no	2611-552 0-87944-4505440 be removed or upg 14.1" TFT / XGA	raded	
Display - size and type Display - techology	e 12.1 inch (308mm) TFT SVGA / 640x480 or 800 16.7 million simultane		XGA / 640x480 or	TFT color / Active Mate 800x600 or 1024x768 / taneous colors / 200 to	30ms / 130 nits
Graphics - controller Graphics - features	interface / 2.5MB / SGF	ia256AV™ (NM2200) / Accelera AM (embedded) / motion comp ∢768x16.7 million colors at 85Hz	ensation / color spa	ce conversion / DDC2B	e, 256-bit memory
Memory - std / max	64MB / 256MB ¹⁷			WINDOWS 98	PRFI OAD16
Memory - features		SMHz / 3.3 volt / 64-bit 4-pin SO DIMMs / one socket use pottom via removing cover held by		Microsoft® Windows Office 2000 Small Bu	® 98 usiness Edition
Keyboard	Full-size 85-key (10 Fn	key functions) / keyboard slope w	th tilt feet	 Microsoft Word 200 Microsoft Excel 200 	
Pointing	TrackPoint® / Press-to-S	ed ShortCut Keys / two Window elect / Release-to-Select / draggi g (Internet Scroll Bar) or magnifyin	ng / click pace /	Microsoft Outlook 2 Microsoft Publisher Microsoft Small Bus	2000
Dimensions / weight ² Battery - type / life ¹⁰ Charge time - on / off		cubic inches) / 1512: 7.4 lbs 15		Online User's GuideEasy Buttons UtilityIBM Owner Privilege	s
Architecture	AGP for graphics / O2® PCI 2.1 32-bit 33Mhz (E	North Bridge / M1533 (EIDE, US Micro 6833D1 PCMCIA controlle EIDE, modem, PCMCIA, USB, au rallel, infrared) / NS PC97338	r /	Marketing Screen Sa Marketing Demo Earthlink Quicken 99 Tom Lehman Golf P	
Docking station Port replicator PCMCIA™ slots	None ThinkPad i Series 1400 2 Type I or 2 Type II or slot) / PCMCIA 2.1 com	Port Replicator Type III / CardBus 32-bit / Zoor patible / PC Card Standard 95		World Book Encyclop Norton AntiVirus™ (C Access ThinkPad RingCentral Fax	pedia
USB / serial / parallel Other features	APM-aware BIOS'/ Univ	6550A / one (IEEE P1284-A, EPF versal AC adapter, 3 prong, barre		America Online®6 ConfigSafe® IBM Update Connect	or
Video (TV) out MPEG decoder Data/fax modem Audio Speakers Audio features Audio in/out jacks	56K ³ V.90 / integrated i 16-bit SoundBlaster Prod Altec Lansing® SoundGu Dial volume control (left	for MPEG-1 in Windows 98) n system / Lucent® 1644 / not vo Maudio support / PCI / ES1946 / n ide stereo speakers w/ Dynamic E side) / internal microphone b) / headphone jack (stereo) / line	o full duplex support qualization Circuit™	PC-Doctor™ (system IBM Global Network Netscape Communic ThinkPad on the Net ∀ World Book Encyclo Software Selections	n diagnostics) (IGN Dialer) cator i pedia CD-ROM CD-ROM
Infrared ports	None		de a la		J-ROIVI
Security Supported oper system		upervisor password / security key	TIOIE	-	
Limited warranty ¹¹ Service options ¹⁵	1 year - ThinkPad Easy	Serv ^{™.9} (door-to-door depot repalous day (72 cities) / serv up to 5		4.8GB = DMA Mode 2 All disks are S.M.A.R.	
The ThinkPad i Serie	es 1400 Port Replicator	OPTIONS		Pressing F1 during sta	artup brings up
provide cable manag - Power jack - Parallel connector - Serial connector - External mouse con - External keyboard c	ement and I/O ports:	- 32MB SO DIMM 3.3v NP SI - 64MB SO DIMM 3.3v NP SI - 128MB SO DIMM 3.3v NP S - i Series 1400 Port Replicato - Li-lon Battery	DRAM 76H0294 DRAM 20L0241 DRAM 01K1150 r 05K5591 02K6576	BIOS Utility All models: - C: drive is FAT16 of 2 - D: drive is FAT32 of i	
- External Reyboard C		- 45 watt AC Adapr (barrel; 3	prong) 11J8702	FEATUR	RES
 - Universal Serial Bus - Headphone jack - Line-in jack - Microphone jack 		- Visit www.ibm.com/pc/us/acor www.ibm.com/pc/ca/acco		PC 98-compliant ACPI ready (APM enab Setup Guide, User's Re 98 manual, and Quick	ference, Windows Reference Card
A.	1	- ThinkPad Proven™ solution		System Status Indicato Plug and Play 1.0a	rs
Color depth LCD		www.ibm.com/pc/us/thinkpa	. ,	Light green mode, stand	dby mode, and
Resolution TFT 640x480 16M 800x600 16M 1024x768 16M 1280x1024	16M 16M 16M	- Visit www.ibm.com/pc/us/th (U.S.) or www.ibm.com/pc/u		hibernation mode ENERGY STAR compli International Warranty 24 hour / 7 day telepho board, fax, electroni (www.ibm.com/pc/u	ant y Service ¹¹ one ⁷ , bulletin

ThinkPad® i Series 1540, 1541, 1560 - withdrawn

IBM [®] ThinkPad [®]	i Series 1540	i Series 1541	i Series 1560		All-in-one design means the disk,
Processor type L2 cache Diskette drive CD-ROM DVD Audio Control Panel	Intel® Mobile Celeron™ 433 128KB / at processor speed Internal 3.5" 1.44MB / use sir CD-ROM / 24X-10X⁵ speed / None / no option available Media Center with Instant A	/ sync pipelined burst / ÉCC multaneously with CD-ROM CAV / ATAPI / bootable / no	/ write-back / on left side t removable / on righ		diskette drive, and CD-ROM are all within the covers of the notebook
Type - model UPC code Processor Disk - size / ms Disk controller CD or DVD	2621-540 0-87944-51796-2 Celeron 433MHz 4.8GB ⁴ / 13ms read EIDE / PCI 2.1 / supports one 24X-10X CD-ROM October 1999 / March 2000 12.1" TFT / SVGA	2621-541 0-87944-52271-3 Celeron 466MHz 6.0GB /12ms / ATA-66	2621-560 0-87944-51797-9 Celeron 466MHz 6.4GB / 12ms read	/ 14ms write raded	,
	12.1 inch (308mm) TFT colo SVGA / 640x480 or 800x600 16.7 million simultaneous of	/ 30ms / 120 nits	XGA / 640x480 or 8	TFT color / Active Matr 800x600 or 1024x768 / 3 aneous colors / 200 to	30ms / 130 nits
Graphics - controller Graphics - features	ATI™ Rage Mobility-M™ / Ad 4MB SDRAM / motion comp External SVGA to 1024x768x	pensation / multiple monitor	r support ²⁶ / DDC2B		
Memory - std / max Memory - features Keyboard	64MB / 256MB ¹⁷ SDRAM / non-parity / 66MHz 2 sockets for JEDEC 144-pin sockets accessed from bottom Full-size 85-key (multiple Fn k	SO DIMMs / one socket usen via removing cover held by key functions) / slope with till	ed by std memory / phillips-head screws t feet / palm rest /	windows 98 - Microsoft® Windows® - Office 2000 Small Bu - Microsoft Word 200 - Microsoft Excel 200	98 Second Edition siness
Keyboard light Pointing Dimensions 19 / weight ²	four customizable color-code 1560: ThinkLight™ / keyboar TrackPoint® / Press-to-Select center button for scrolling (Intel 1540/41: 12.9x10.6x1.59® fro	rd light (to work in low light) / Release-to-Select / draggi ernet Scroll Bar) or magnifyin	w/ power button ng / click pace /	 Microsoft Outlook 2 Microsoft Publisher Microsoft Small Bus Online User's Guide Easy Buttons Utility 	2000
Battery - type Battery - life ¹⁰	1560: 12.9x10.6x1.55" front a Li-lon / intelligent / right side 1540/41: 3.0 hrs	and 1.69" rear / 7.65 lbs 1560: 4.0 hrs		 IBM Owner Privileges ThinkPad Utilities Marketing Screen Sa Marketing Demo 	
Architecture	1540/41: 5.0 hrs on / 2.0 hrs ALI® Aladdin IV M1621 Nortl AGP for graphics / O2® Micro PCI 2.1 32-bit 33Mhz (EIDE, ISA (diskette, serial, parallel,	h Bridge / M1533 (EIDE, US 6833 PCMCIA controller / modem, PCMCIA, USB, au	SB, PCI to ISA bdg) /	 Earthlink Quicken 99 Norton AntiVirus™ (C Access ThinkPad RingCentral 	PEM version) ¹⁶
Docking station Port replicator PCMCIA™ slots USB / serial / parallel Other features	None None 1 Type I or 1 Type II or 1 Typ One USB / one 9 pin; 16550/ ACPI power mgmt / Universa	ne III / CardBus 32-bit / Zoo A / one (IEEE P1284-A, EPF	P, ECP, bidirectional)	America Online®6 ConfigSafe® IBM Update Connect PC-Doctor™ (system IBM Global Network (diagnostics)
Video (TV) out MPEG decoder Data/fax modem Audio	None None (software support for M 56K³ V.90 / integrated in syst not voice-capable 16-bit SoundBlaster Pro™ aud	IPEG-1 in Windows 98) tem / Lucent® 1646 / Mini Po	CI Type IIIb /	 Netscape Communic ThinkPad on the Net Tom Lehman Golf Pr World Book Encyclop Software Selections 	o 98 CD-ROM pedia CD-ROM CD-ROM
Speakers Audio features Audio in/out jacks Infrared ports	Altec Lansing® SoundGuide st Dial volume control (front sid Microphone jack (stereo) / he None	tereo speakers w/ Dynamic E e) / internal microphone eadphone jack (stereo) / line	Equalization Circuit™ e-in jack (all left side)	 ♦ Product Recovery CI 4.8GB = DMA Mode 2 6.0GB = ATA-66 or PI 6.4GB = DMA Mode 2 	or PIO Mode 4 D Mode 4 or PIO Mode 4
Security Limited warranty*,11 Service options15	Power-on password / superv 1 year - EasyServ ^{TM,9} onsite pi On-site, M-F, 8-5, next bus d	ckup and delivery courier se	rvice	All disks are S.M.A.R.T - Pressing F1 during st BIOS Utility - Notebook Manager a operation	artup brings up
Mars Red Metallic,Te Eclipse Blue Metallic,	Lunar Grev Metallic. - 32	OPTIONS 2MB SO DIMM 3.3v NP SDF 4MB SO DIMM 3.3v NP SDF	RAM 76H0294	All models: - C: drive is FAT16 of 2 - D: drive is FAT32 of r	emaining space
Visit www.ibm.com/pccover.html for a comp	c/us/thinkpad/iseries/ plete list Not manufactured or	28MB SO DIMM 3.3v NP SD -lon Battery Itraslim 56 watt AC Adapter)/100 EtherJet™ CardBus Au ultiPort USB Hub	01K1150 02K6603 (3 prong) 02K6545	Owner Privileges ¹³ pro PC 98-compliant ACPI enabled Setup Guide, User's Re Windows 98 manual, Reference Card	eference, and Quick
Color depth LCD Resolution TFT 640x480 16M 800x600 16M 1024x768 16M*	60Hz 75Hz 85Hz 16M 16M 16M - Th 16M 16M 16M w 16M 16M 16M	sit www.ibm.com/pc/us/acc www.ibm.com/pc/ca/acces ninkPad Proven™ solutions¹ ww.ibm.com/pc/us/thinkpac	ssories (CÀ) 1 ² (visit 1/proven)	System Status Indicato Plug and Play 1.0a Standby mode and hib ENERGY STAR-compli International Warranty IBM SystemXtra ^{®.35} 24 hour / 7 day ⁷ teleph	ernation mode ant / Service ¹¹
1280x1024 1600x1200 * 14.1" model only		sit www.ibm.com/pc/us/thin J.S.) or www.ibm.com/pc/ca		board, electronic, an (www.ibm.com/pc/us	d Internet

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad in most North American locations, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). The customer may be asked certain diagnostic questions before a courier is sent.

* For a copy of IBM's Statement of Limited Warranty, call 1-800-772-2227 No warranties are expressed or implied in this summary (1540) © IBM Corp. April 2002

IBM [®] ThinkPad [®]	i Series 1542		i Series 1562		i Series 1592	All-in-one design means the disk,
Processor type L2 cache Diskette drive CD-ROM DVD	Celeron: 128KB; Pentiu Internal 3.5" 1.44MB / or CD-ROM / 24X-10X ⁵ spe None / no option available	im III: 256KB ; n left side led / CAV / AT/ le	obile Pentium III 500MHz All: at processor speed / syr API / bootable / not removab	nc pipelined b	ourst / ECC / write-back side	diskette drive, and CD-ROM are all within the covers of the notebook
Audio Control Panel Type - model Processor Disk - size / ms Disk controller Avail / withdrawn date	2651-542 Celeron 500MHz 12GB ⁴ / 12ms read / 14n	ns write / ATA-	ernal CD player controls in 2651-562 Pentium III 500MHz 66 or PIO4 / S.M.A.R.T.8 c can not be removed or up	. ,	2651-592 Pentium III 500MHz	n oπ or closea)
Display	12.1 inch (308mm) TFT color Active Matrix SVGA / 800x600 / 50ms 16.7 million colors / 150	/ 120 nits	14.1 inch (358mm) TFT color Active Matrix XGA / 1024x768 / 70 ms / 16.7 million colors / 120		15.0 inch (381mm) TFT color Active Ma XGA / 1024x768 / 80 16.7 million colors / 29	ms / 120 nits
Graphics - controller Graphics - features	4MB SDRAM / motion of	ompensation	d Graphics Port / AGP 2X / multiple monitor support ² on colors at 85Hz and 128	6 / DDC2B		
Memory - std / max Memory - features	64MB / 256MB ¹⁷ SDRAM / non-parity / 100 2 sockets for JEDEC 144	0MHz / 3.3 volt I-pin SO DIMM		memory /	WINDOWS 2000 - Microsoft® Windows®	2000 Professional
Keyboard Keyboard light Pointing	Full-size 85-key (multiple four customizable color- 1562/92: ThinkLight [™] / TrackPoint® / Press-to-Se	Fn key function Fn key	ons) / slope with tilt feet / pal aunch buttons ¹⁸ / two Wind (to work in low light) w/ po -to-Select / dragging / click Il Bar) or magnifying glass / s	Im rest / dows keys wer button pace /	 Office 2000 Small Bu Microsoft Word 200 Microsoft Excel 200 Microsoft Outlook 2 Microsoft Publisher Microsoft Small Bus 	0 00 000 2000
Dimensions ¹⁹ / weight	² 1542: 12.9x10.6x1.59" fr 1562: 12.9x10.6x1.59" fr 1592: 12.9x10.6x1.73" fr	ont and 1.73"	rear / 7.6 lbs	-	Online User's GuideEasy Buttons UtilityIBM Owner Privilege	
Battery - type Battery - life ¹⁰ Charge time - on / off	1542: NiMH / intelligent / 1542: 2.0 hrs 1542: 2.5 hrs on / 2.1 hrs	•	1562/92: Li-Ion / intelligent 1562/92: 3.5 hrs 1562/92: 4.0 hrs on / 3.1 h	ors off	ThinkPad UtilitiesMarketing Screen SaEarthlinkQuicken 2000	ver
Architecture Docking station Port replicator PCMCIA™ slots USB / serial / parallel	One USB / one 9 pin; 16	O PCMCIA co IDE, modem, Fallel, infrared) Type III / Car 550A / one (IE	ntroller / PCMCIA, USB, audio) / / NS PC97338 dBus 32-bit / Zoomed Vide EE P1284-A, EPP, ECP, bi	eo directional)	 Norton AntiVirus™ (C Access ThinkPad RingCentral Fax America Online® ConfigSafe® IBM Update Connect PC-Doctor™ (system IBM Global Network 	or ¹⁴ diagnostics) (IGN Dialer)
Other features Video (TV) out Data/fax modem Audio Speakers Audio features Audio in/out jacks	None 56K³ V.90 / integrated in not voice-capable 16-bit SoundBlaster Pro TM Altec Lansing® SoundGuil Dial volume control (fron	system / Luce audio support de stereo spea t side) / intern	oter, 3 prong, barrel, slim, 5 ent® 1646 / Mini PCI Type II / PCI / ES1946 / full duplex skers w/ Dynamic Equalizational al microphone jack (stereo) / line-in jack (s	IIb / support on Circuit™	 Netscape Communic Adobe Acrobat Reac RealPlayer G2 World Book Encyclo Software Selections Product Recovery Cl 	ler pedia CD-ROM CD-ROM
Infrared ports Security	None		ord / supervisor password /	,	Pressing F1 during s BIOS UtilityNotebook Manager a	
Limited warranty ¹¹ Service options ¹⁵	1 year - ThinkPad Easys	Serv™. ⁹ (door-t us day (72 citi	o-door depot repair service) es) / serv up to 5 yrs from p	ourch date	operation All models: - C: drive is FAT32 of e	, and the second
Metallic,Terra Green Metallic, Lunar Grey Andromeda Green, F	dels only ²⁰): Mars Red Metallic, Eclipse Blue Metallic, Sirius Red, Polaris Blue oc/us/thinkpad/iseries/ plete list	- 64MB SO D - 128MB SO - Li-Ion Batte - Ultraslim 56	watt AC Adapter (3 prong) erJet™ CardBus Adapter ort USB Hub	02K6603 02K6545 34L1301 00N8215 37L1511	Owner Privileges ¹³ property of the PC 98-compliant ACPI enabled Setup Guide, User's Rewindows manual, and Reference Card System Status Indicato	eference, d Quick
Resolution TFT 640x480 16M 800x600 16M 1024x768 16M 1280x1024 1600x1200 * 14.1" and 15.0" mo	60Hz 75Hz 85Hz 16M 16M 16M 16M 16M 16M * 16M 16M 16M 256 16M 16M 256 256	or www.ibm - ThinkPad P www.ibm.co - Visit www.ii	bm.com/pc/us/accessories n.com/pc/ca/accessories (C Proven™ solutions¹² (visit om/pc/us/thinkpad/proven) bm.com/pc/us/thinkpad/iser ww.ibm.com/pc/ca/thinkpad	(U.S.) FA)	System Gauss Indicasors Plug and Play 1.0a Standby mode and hib ENERGY STAR-compl International Warrant IBM SystemXtra®-35 24 hour / 7 day ⁷ teleph board, fax, electroni (www.ibm.com/pc/u	ernation mode lant y Service ¹¹ none, bulletin c, and Internet

IBM [®] ThinkPad [®]	i Series 1720							
Processor Processor features L2 cache Diskette drive External FDD port CD-ROM DVD-ROM	No upgrade / processor, I 512KB / sync pipelined b Internal 3.5" 1.44MB / ren None since diskette interr CD-ROM / 24X-10X ⁵ spee	bile Pentium® II 266MHz¹ / 66MHz system bus ide / processor, L2 cache, and MTXC (North Bridge) on Intel Mobile Module sync pipelined burst / ECC / half speed ibel integrated with CD-ROM are all within ibel integrated with CD-ROM covers of the notebook covers of th						
Type - model UPC code Disk Disk controller	2627-720 0-87944-47526-2 4.3GB ⁴ / 13ms read / 14m EIDE / PCI 2.1 / disk can b November 1998 / April 200	Resolution 640x480	LCD TFT 16M	60Hz 7	al Monitor '5Hz 85Hz 6M 16M			
-	13.3" TFT color / Active I XGA / 640x480 or 800x60		800x600 1024x768 1280x1024	16M 16M 		6M 16M 6M 16M 		
Graphics - controller Graphics - external Graphics - features Memory - std / max Memory - features	2.5MB / SDRAM (embedde External SVGA to 1024x7	a256AV [™] (NM2200) / PCI 2.1 / 128-bit engine, 256 ded) / motion compensation / color space conver 68 with 16.7 million colors at 85Hz RT ²⁶ / 150 degree tilt / multiple-monitor support ²⁶	The right bay lock on the b LED which s	on in X a / (UltraE ottom of hould be	and Y axis Bay FX) ha f the syste	s a device m and a bay		
Keyboard Pointing	2 sockets for JEDEC 144 sockets accessed from be Full-size 85-key (7 Fn key TrackPoint® / Press-to-Se center button for scrolling	-pin SO DIMMs / one socket used by std memory ottom via removing cover held by phillips-head screfunctions) / keyboard slope with tilt feet /palm rest lect / Release-to-Select / dragging / click pace (Internet Scroll Bar) or magnifying glass / spare cap	standard d optional se battery as i optional se	upports: diskette/CD-ROM (warm swap) second battery (hot swap); same s main one second disk (cold swap) ThinkPad Proven™ solutions¹²				
Dimensions Weight ²	12.4 x 10.1 x 1.8" (225 cu 7.5 lbs (3.4 kg) with batter			All mo		Γ16 of 2GB		
Battery - type / life ¹⁰ Charge time ¹⁰ - on / off		s (1 battery) / left side / supports second battery in l	JitraBay FX	- D: drive is FAT32 of remaining space				
Docking station Port replicator PC Card Std slots USB / serial / parallel Other features	PCI 2.1 / 32-bit / 33MHz (ISA (audio, diskette, seria None ThinkPad Port Replicator 2 Type I, 2 Type II, or 1 Tyl One USB / one 9 pin; 165	50A PCMCIA controller / NS PČ97338 (FDC, IR, I/C EIDE, graphics, PCMCIA, USB, audio) I, parallel, infrared, modem) with Advanced EtherJet™ / ThinkPad 560 Port Replic be III / CardBus 32-bit / PCMCIA 2.1 / Zoomed video 50A / one (IEEE P1284-A, EPP, ECP, bidirectional) sal AC adapter; barrel (56 watts)	- Microsoft® - Online Use - ThinkPad C - ThinkPad C - IntelliQues - Diskette Fa - Lotus® Small	nter				
Video in/out MPEG decoder Data/fax modem Audio Speakers Audio features Audio in/out jacks Infrared ports	56K 3 / V.90 / integrated in 16-bit SoundBlaster Pro ^T Two Altec Lansing® Soun Dial volume control (right Microphone jack (stereo) Infrared port on left side /	or MPEG-1 in Windows 98) system / Lucent 1644 / not voice-capable M support / NeoMagic NMA2 / ISA / full duplex dGuide stereo speakers on display (1 watt) side) / internal microphone / headphone jack (stereo) / line-in jack IrDA 1.1 compatible / up to 4Mbps	Quicken 98 Norton AntiVirus (OEM version) Rand McNally Trip Maker® Ring Central Fax America Online®6 ConfigSafe IBM Update Connector PC Doctor IBM Global Network (IGN Dialer)					
Security	Power-on password / setu security keyhole / security	p password / disk password / screw for UltraBay FX	ThinkPad of	e Navigator browser d on the Net telliSync 97 ization Center CD-ROM nartSuite Millennium CD-ROM Recovery CD-ROM				
Limited warranty*,11 Service options15		te pickup and delivery courier service s day (72 cities) / service agreements up to 5 years	♦ Lotus Sma♦ Product Re					
management, additio Card slots, and 10/10 LAN®. Features: -10/100 ethernet (Inte-Dual IBM lock slots t PC Cards, and Port FC Connectors: -USB, serial (RS-232 external display, key) - Audio in and out (3.5-Joystick/MIDI port (1	Feature provides cable nal I/O ports, CardBus PC 00 ethernet with Wake on E82558, Wake on LAN) o secure the ThinkPad, Replicator 9 pin), parallel (25 pin), board, mouse 5 mm) 5 pin) - not on system	OPTIONS - 32MB SO DIMM 3.3v NP SDRAM - 64MB SO DIMM 3.3v NP SDRAM - 128MB SO DIMM 3.3v NP SDRAM - 128MB SO DIMM 3.3v NP SDRAM - 118MB SO DIMM 3.3v NP SDRAM - 118MB SO DIMM 3.3v NP SDRAM - 1150 - Port Replicator 46H209 - Port Replicator 46H209 - Port Replicator W/ Advanced EtherJet05K8923 - Model number TP923; UPC 0-87944-44543-2 - 10GB disk with UltraBay FX adapter 05K8983 - 12GB disk with UltraBay FX adapter 05K9268 - ThinkPad 390/i Series Li-lon Battery 02K6513 - Model number TP513; UPC 0-87944-44544-9 - V.90 PC Card Modem with XJACK3 - 10L7393 - IBM Mini-Mouse (black) - 76H0294 - 20L0241 - 20L02	4.3GB = Ultra DMA/33 or PIC 6.4GB = Ultra DMA/33 or PIC 10GB = Ultra DMA/33 or PIC Disks are S.M.A.R.T.* compl FEATURES PC 97 compliant ACPI ready (APM enabled) Setup Guide, User's Reference 98 manual, and Quick Refer		33 or PIO 33 or PIO 33 or PIO I .8 complia URES abled) Reference	Mode 4 Mode 4 ant		
- External diskette drift - Power connector Features of the PC Ca - Two Type III slots (s - PC Card Standard 9: - CardBus compliant (- PCMCIA 2.1 (no Zo - TI 1250A controller - Requires no PCI-to-F	ide by side) 5 compliant PCI 2.1 / 32-bit) med Video)	 DVD/Diskette (for UltraBay FX) 05K8921 Visit www.ibm.com/pc/us/accessories (U.S.) or www.ibm.com/pc/ca/accessories (CA) ThinkPad Proven™ solutions¹² (visit www.ibm.com/pc/us/thinkpad/proven) Pressing F1 during startup brings up IBM BIOS Setup Utility 	Plug and Play Standby, sus	pend, ar AR com I Warrai ay ⁷ tele tronic,	pliant nty Servic phone, bu and Interr	e ¹¹ ulletin net		

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* For a copy of IBM's Statement of Limited Warranty, call

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- MHz only measures microprocessor internal clock speed (or bus speed where indicated), not application performance. Other factors also affect application performance.
- ² Includes battery; actual weight may vary due to vendor components, manufacturing process and options.
- These 56K V.90 modems are designed to be capable of receiving data at up to 56Kbps from V.90 or K56Flex service equipment, and transmitting data up to about 31.2Kbps. Public networks currently limit maximum download speeds to about 53Kbps. Actual speeds depend on many factors and are often less than the maximum possible.
- ⁴ GB equals one billion bytes when referring to hard drive capacity. Accessible capacity may be less.
- Variable read rate. Actual playback speed will vary and is often less than the maximum possible.
- 6 100-hour Internet trial period through America Online with no per day usage limits. Telephone line charges and surcharges may apply. Online service charges will apply after expiration of initial trial period.
- ⁷ Response time varies. May exclude some holidays. On-site service provided after IBM attempts to resolve the problem remotely.
- 8 S.M.A.R.T. is defined as Self-Monitoring, Analysis and Reporting Technology.
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- ¹⁰ Results obtained using BAPCo (Business Applications Performance Corporation) SYSmark Benchmark Test. Battery life (and recharge times)

- will vary based on many factors including screen brightness, applications, features, power management, battery conditioning and other customer preferences.
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- ¹⁴ Update Connector is available to registered ThinkPad customers during the limited warranty period at no charge. Line charges may apply.
- Service options available based on specific ThinkPad notebook purchased; details available via fax by calling 1 800 426-3395 and requesting document #11017 or call your IBM authorized reseller for additional information.
- ¹⁶ Some software may differ from its shrink-wrapped 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 Maximum memory varies depending on model, and may require replacement of standard memory with optional maximum memory modules in all available slots.



- When using multi-monitor with Windows 98, available graphics memory may limit resolution and/or color. Individual application support for this feature will vary.
- 39 External device must support the same maximum resolution and refresh rate as that of the built-in notebook display.

These systems ship with an operating system.

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