ThinkPad® i Series 1410, 1450 - withdrawn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	oomed Video support / DDC1 and DDC2B d 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	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	 ♦ 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 Series 1400 Port Replicator provide cable management and I/O ports: - Power jack - Parallel connector - Serial connector - External mouse connector - External keyboard connector - External monitor connector - Universal Serial Bus (USB) port - Headphone jack - Line-in jack - Microphone jack		- 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 DVD	Intel® Pentium® 300MHz¹ No upgrade 512KB / synchronous pipe Internal 3.5" 1.44MB / use None since diskette intern CD-ROM / 24X-10X⁵ spee None supported	elined burst / 66MHz simultaneously with CD-F al	•	All-in-one design means the disk, diskette drive, and CD-ROM are all within the covers of the notebook			
Audio Control Panel		D player controls in front of	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	s write	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 / Acti 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 col	00 or 1024x768 / 30ms / 120 nits			
Graphics - controller Graph - arch/data path Graphics - features	NeoMagic™ MagicGraph 2MB / iDRAM™ (embedde PCI 2.1 / 32-bit / external Simultaneous LCD and C	ed) / color space conversion SVGA to 1024x768 with 65	n and interpolation in X an	oomed Video support / DDC1 and DDC2B d Y axis / support for DCI, DirectDraw			
Memory - std / max	32MB / 256MB ¹⁷		64MB / 256MB	WINDOWS 98 PRELOAD16			
Memory - features	SDRAM / non-parity / 66M 2 sockets for JEDEC 144- sockets accessed from bo	pin SO DIMMs / one sock ttom via removing cover he	eld by phillips-head screws	Microsoft® Windows® 98 Online User's Guide ThinkPad Configuration Program			
Keyboard Pointing	Full-size 85-key (10 Fn ke Customizable color-coded TrackPoint® / Press-to-Sel center button for scrolling (d ShortCut Keys / two W ect / Release-to-Select / dr	indows keys / palm rest ragging / click pace /	ThinkPad Customization Center 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) hrs / left side	2.7 hrs	ShortCut Keys Utility SafeOFF Utility			
Architecture	ALI® Aladdin IV M1531 N O2® Micro 6833 PCMCIA PCI 2.1 / 32-bit / 33Mhz (E ISA (audio, diskette, serial	controller / NS PC97338 (EIDE, graphics, PCMCIA, I	FDC, IR, I/O) JSB, audio)	 IntelliQuest Registration 3.0 Lotus® SmartSuite® Millennium Quicken 98 Tom Lehman Golf Pro 98 			
Docking station Port replicator PCMCIA™ slots USB / serial / parallel	None Port Replicator (for easy, of 2 Type I or 2 Type II or 1 T PCMCIA 2.1 compatible / One USB / one 9 pin; 165	one-step connection to de Type III / CardBus 32-bit / PC Card Standard 95	World Book Encyclopedia Rand McNally Trip Maker® Norton AntiVirus™ (OEM version) Access ThinkPad Ring Central Fax America Online®6				
Other features Video in/out MPEG decoder Data/fax modem Audio Speakers Audio features Audio in/out jacks Infrared ports Security	APM-aware BIOS / University None None (software support for 56K³ / V.90 / integrated in 16-bit SoundBlaster Pro™ Altec Lansing® SoundGuic Dial volume control (left similar Microphone jack (stereo) / None Power-on password / support None	or MPEG-1 in Windows 98) system / Lucent 1641B / n audio support / Yamaha Y de stereo speakers with Dyide) / internal microphone / headphone jack (stereo)	ConfigSafe® IBM Update Connector PC Doctor™ (system diagnostics) IBM Global Network (IGN Dialer) Netscape Navigator browser ThinkPad on the Net Lotus SmartSuite Millennium CD-ROM World Book Encyclopedia CD-ROM Customization Center CD-ROM Product Recovery CD-ROM				
Supported oper system	Windows 98 only		•				
Limited warranty*,11 Service options15	1 year - EasyServ ^{TM,9} onsit On-site, M-F, 8-5, next bu from purchase date	te pickup and delivery cour s 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 Series 1400 Port Replicator provide cable management and I/O ports: - Power jack - Parallel connector - Serial connector - External mouse connector - External keyboard connector - External monitor connector - Universal Serial Bus (USB) port - Headphone jack - Line-in jack - Microphone jack		- 32MB SO DIMM 3.3v N - 64MB SO DIMM 3.3v N	NP SDRAM 20L0241	Pressing F1 during startup brings up BIOS Utility			
		- IBM Mini-Mouse (black	olicator 05K5591 02K6525 02K6576 02K6576 02K6576 03K900033 07G0033	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			
LCD	External Monitor	www.ibini.com/pc/ca/a	ccessories (OA)	ENERGY STAR compliant			
Resolution TFT 640x480 16M 800x600 16M 1024x768 64K 1280x1024	60Hz 75Hz 85Hz 16M 16M 16M 16M 16M 16M 64K 64K	ThinkPad Proven™ sol www.ibm.com/pc/us/th Visit www.ibm.com/pc/ or www.ibm.com/pc/ca	inkpad/proven) /us/thinkpad/iseries (U.S.)	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	1452/72: 2X-1X ⁵ DVD-RC	m II: 256KB ; e simultaneous 10X ⁵ speed / 0 DM / bootable /	All: onboard (full sly with CD-ROM CAV / ATAPI / boo not removable / e	spd) / sync pipelined / on right side htable / not removable on right side	burst / ECC / write-back e / 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)	2611-412 0-87944-49109-5 Celeron 366MHz 4.8GB ⁴ / 13ms read / 14m	one internal disk / disk can not be removed or upgra			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 PRELOAD16		
Keyboard Pointing	Full-size 85-key (10 Fn ke Customizable color-coded TrackPoint® / Press-to-Sel center button for scrolling (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 /			
Dimensions / weight ² Battery - type / life ¹⁰ Charge time - on / off	13.1 x 10.1 x 1.85" (245 c Li-lon / non-intelligent / le 5.33 hrs on / 2.0 hrs off	cubic inches) /	1412: 7.4 lbs 14	152/72: 7.7 lbs			
Architecture Docking station Port replicator PCMCIA™ slots USB / serial / parallel Other features	ALI® Aladdin IV M1621 N AGP for graphics / O2® M PCI 2.1 32-bit 33Mhz (EIE ISA (diskette, serial, para None ThinkPad i Series 1400 P 2 Type I or 2 Type II or 1 T slot) / PCMCIA 2.1 compa One USB / one 9 pin; 165 APM-aware BIOS / Liniva	icro 6833D1 F DE, modem, P Ilel, infrared) / ort Replicator Type III / Card tible / PC Card 50A / one (IEI	 Quicken 99 Tom Lehman Golf Pro 98 World Book Encyclopedia Norton AntiVirus™ (OEM version) Access ThinkPad RingCentral Fax America Online® ConfigSafe® IBM Update Connector PC-Doctor™ (system diagnostics) 				
Video (TV) out MPEG decoder Data/fax modem Audio Speakers Audio features Audio in/out jacks Infrared ports	APM-aware BIOS / Universal AC adapter, 3 prong, barrel, slim, 45 watts 1412: None 1452/72: S-Video out conn on side (does not require cable) None (software support for MPEG-1 in Windows 98) 56K³ V.90 / integrated in system / Lucent® 1644 / not voice-capable 16-bit SoundBlaster Pro™ audio support / PCI / ES1946 / no full duplex support Altec Lansing® SoundGuide stereo speakers w/ Dynamic Equalization Circuit™ Dial volume control (left side) / internal microphone Microphone jack (stereo) / headphone jack (stereo) / line-in jack None			IBM Global Network (IGN Dialer) Netscape Communicator ThinkPad on the Net			
Security Power-on password / supervisor password / security keyhole Supported oper system Windows 98 only Limited warranty ¹¹ 1 year - ThinkPad EasyServ ^{™,9} (door-to-door depot repair service) or carry-i Service options ¹⁵ On-site, M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purch date				r service) or carry-in	4.8GB = DMA Mode 2 or PIO Mode 4 6.4GB = DMA Mode 2 or PIO Mode 4 All disks are S.M.A.R.T. ⁸ compliant		
The ThinkPad i Series 1400 Port Replicator provide cable management and I/O ports: - Power jack - Parallel connector - Serial connector - External mouse connector		- 64MB SO - 128MB SC	OPTIONS B SO DIMM 3.3v NP SDRAM 76H0294 B SO DIMM 3.3v NP SDRAM 20L0241 MB SO DIMM 3.3v NP SDRAM 01K1150 ies 1400 Port Replicator 05K5591 n Battery 02K6576		Pressing F1 during startup brings up BIOS Utility All models: - C: drive is FAT16 of 2GB - D: drive is FAT32 of remaining spa		
- 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	ries 1420 i Series 1460		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	2621-460 0-87944-50832-2 Celeron 433MHz 4.8GB / 13ms read / 14ms write ts one internal disk / disk can not be removed or up 4X-1X DVD-ROM	y music CDs when system off or closed) 2621-480 0-87944-50826-7 Celeron 466MHz 6.4GB / 12ms read / 14ms write graded 4X-1X DVD-ROM October 1999 / March 2000 14.1" TFT / XGA			
	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	sockets accessed from bottom via removing cover held by phillips-head screws Full-size 85-key (multiple Fn key functions) / slope with tilt feet / palm rest / four customizable color-coded Easy Launch buttons / two Windows keys 1460/80: ThinkLight™ / keyboard light (to work in low light) w/ power button TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / center button for scrolling (Internet Scroll Bar) or magnifying glass / spare cap 1420: 12.9x10.6x1.61" front and 1.75" rear / 7.75 lbs Microsoft® Windows® 98 Second Economic Second Eco					
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 Pro 98 World Book Encyclopedia Norton AntiVirus™ (OEM version) Access ThinkPad RingCentral Fax America Online®6 ConfigSafe® IBM Update Connector PC-Doctor™ (system diagnostics) IBM Global Network (IGN Dialer) Netscape Communicator ThinkPad on the Net Tom Lehman Golf Pro 98 CD-ROM Cotus® SmartSuite® Millennium CD-ROM World Book Encyclopedia CD-ROM Software Selections CD-ROM Product Recovery CD-ROM 4.8GB = DMA Mode 2 or PIO Mode 4 6.4GB = DMA Mode 2 or PIO Mode 4			
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				
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				
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	<u> </u>	BIOS Utility - Notebook Manager available during operation All models:				
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/pi cover.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		

IEM 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	Intel® Mobile Celeron™ 128KB / at processor s Internal 3.5" 1.44MB / us 1421: CD-ROM / 24X-10 1441: 4X-1X ⁵ DVD-ROM	· ·	diskette drive, and CD-ROM are all within the covers of the notebook				
Audio Control Panel		ant Audio (external CD player co		y music CDs when systen	n off or closed)		
Type - model UPC code Disk - size / ms Disk controller CD or DVD Available date	EIDE / PCI 2.1 / support 24X-10X CD-ROM January 2000	ms write / ATA-66 / S.M.A.R.T. ⁸ s one internal disk / disk can not	be removed or upg 4X-1X DVD-ROM		S.M.A.R.T.		
Withdrawn dare	July 2000		January 2000 July 2000				
Display - size and type Display - technology	13.0 inch (330mm) HPA SVGA / 640x480 or 800 16.7 million simultaned	color / Dual Scan x600 / 30ms / 120 nits ous colors / 100 to 1 contrast	SVGA / 640x480 or	TFT color / Active Matrix 800x600 / 30ms / 120 raneous colors / 80 to 1	nits		
	4MB SDŘAM / motion c	/ Accelerated Graphics Port /	support ²⁶ / DDC2B				
Graphics - features Memory std / may	256MB ¹⁷	768x16.7 million colors at 85Hz	and 1280x1024x250 64MB / 256MB				
Memory - std / max Memory - features	SDRAM / non-parity / 66l 2 sockets for JEDEC 144	MHz / 3.3 volt / 64-bit data path / I-pin SO DIMMs / one socket use ottom via removing cover held by	d by std memory /	WINDOWS 98 - Microsoft® Windows® • Online User's Guide	_		
Keyboard	Full-size 85-key (multiple	Fn key functions) / slope with tilt coded Easy Launch buttons ¹⁸ /	feet / palm rest /	Easy Buttons Utility IBM Owner Privileges ¹³			
Keyboard light Pointing	None TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / center button for scrolling (Internet Scroll Bar) or magnifying glass / spare cap • MediaMatics DVD • Marketing Screen Saver • Marketing Demo						
Dimensions ¹⁹ / weight ²	² 1421: 12.9x10.6x1.8" / 7	7.8 lbs 1441: 12.9x10.6	x1.6" / 7.7 lbs	EarthlinkQuicken 99Tom Lehman Golf Pro	n 98		
Battery - type Battery - life ¹⁰ Charge time ¹⁰ - on / of	1421: NiMH / intelligent / right side 1421: 2.0 hrs 1441: 3.0 hrs 1441: 3.0 hrs 1441: 4.0 hrs on / 3.1 hrs off • World Book Encyclopedia • Norton AntiVirus™ (OEM version) • Access ThinkPad						
Architecture Docking station	ALI® Aladdin IV M1621 AGP for graphics / O2® PCI 2.1 32-bit 33Mhz (EI ISA (diskette, serial, para None	 RingCentral Fax America Online^{®6} ConfigSafe[®] IBM Update Connector¹⁴ PC-Doctor[™] (system diagnostics) 					
Port replicator PCMCIA™ slots USB / serial / parallel	None 1 Type I or 1 Type II or 1 One USB / one 9 pin; 16	Type III / CardBus 32-bit / Zoo 550A / one (IEEE P1284-A, EPP	IBM Global Network (IGN Dialer) Netscape Communicator ThinkPad on the Net ∀Tom Lehman Golf Pro 98 CD-ROM				
Other features Video (TV) out MPEG decoder Data/fax modem	ACPI power mgmt / Universal AC adapter, 3 prong, barrel, slim, 56 watts 1421: None 1441: S-Video out connector on side (does not require cable) None (software support for MPEG-1 in Windows 98) 56K³ V.90 / integrated in system / Lucent® 1646 / Mini PCI Type IIIb / not voice-capable						
Audio Speakers Audio features Audio in/out jacks Infrared ports	16-bit SoundBlaster Pro™ Altec Lansing® SoundGui Dial volume control (fron	daudio support / PCI / ES1946 / r de stereo speakers w/ Dynamic E t side) / internal microphone) / headphone jack (stereo) / line	qualization Circuit™	- Pressing F1 during startup brings up BIOS Utility			
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 repainus day (72 cities)	r service) or carry-in	- C: drive is FAT16 of 20 - D: drive is FAT32 of re	GB emaining space		
Mars Red Metallic,Te Eclipse Blue Metallic,		OPTIONS - 32MB SO DIMM 3.3v NP SDR - 64MB SO DIMM 3.3v NP SDR		FEATUR Owner Privileges ¹³ pro			
Visit www.ibm.com/p	,	 128MB SO DIMM 3.3v NP SD Li-Ion Battery Ultraslim 56 watt AC Adapter (RAM 01K1150 02K6603	PC 98-compliant ACPI enabled Setup Guide, User's Re			
*Supplied by iBrands manufactured or wa	under license. Not	- 10/100 EtherJet™ CardBus Ac - MultiPort USB Hub		Windows 98 manual, a Reference Card System Status Indicator	and Quick		
Color depthLCDResolutionTFT	External Monitor 60Hz 75Hz 85Hz	- Visit www.ibm.com/pc/us/acces or www.ibm.com/pc/ca/access		Plug and Play 1.0a Standby mode and hibe	rnation mode		
640x480 16M 800x600 16M 1024x768	16M 16M 16M 16M 16M 16M 16M 16M 16M	- ThinkPad Proven™ solutions¹² www.ibm.com/pc/us/thinkpad/		ENERĞY STAR-complia International Warranty S IBM SystemXtra®35 24 hour / 7 day ⁷ telepho	Service ¹¹		
1280x1024 1600x1200	16M 16M 16M 64K 64K 64K	- Visit www.ibm.com/pc/us/thini (U.S.) or www.ibm.com/pc/ca/		board, fax, electronic, (www.ibm.com/pc/us)	and Internet		

IBM® ThinkPad®	i Series 1422	i Series 1442	i Series		i Series 1483	i Series 1492		
Processor type L2 cache Diskette drive CD-ROM DVD Audio Control Panel	Celeron: 128KB; Pentic Internal 3.5" 1.44MB / o 1422: CD-ROM / 1442/82/92: 6X-1X ⁵ DV	1 500MHz1 or Mobile Pentum III: 256KB; AlI: at prod n left side / 24X-10X5 speed / CAV / J /D-ROM / bootable / not re lant Audio (external CD pl	elined burst / ECC movable / right side	тпе потероок				
Type - model Processor CD or DVD Disk - size / ms Disk controller Avail / withdrawn date	2621-422 Celeron 500MHz 24X-10X CD-ROM 6.0GB ⁴ / 12ms read / 14 EIDE / supports one inte March 2000 / October 20	2621-442 Celeron 500MHz 6X-1X DVD-ROM ms write / ATA-66 or PIO4 ernal disk / disk can not be 000	2621-483 Pentium III 500MH: 24X-10X CD-ROM 4ms write / ATA-66 c Ultra DMA/33 or PIC	z 2621-492 Pentium III 500MHz 6X-1X DVD-ROM or PIO4 04 / S.M.A.R.T.8				
Display (diagonal) Display	12.1 inch (308mm) TFT SVGA / 640x480 or 800	x600 / 50ms / 120 nits	14.1" TF	13.0 inch (330 SVGA / 640x4	14.1" TFT / XGA mm) HPA color / D 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 / 640x48	imultaneous colors mm) TFT color / Ac 0 or 800x600 or 102 imultaneous colors	tive Matrix 4x768 / 80ms / 120 nits		
Graphics - controller Graphics - features	ATI™ Rage Mobility-M™ 4MB SDRAM / motion of	M / Accelerated Graphics compensation / multiple rx768x16.7 million colors a	Port / AC	GP 2X / 64-bit o	graphics / B			
Memory - std / max Memory - features	SDRAM / non-parity / 10	64MB / 256MB 00MHz / 3.3 volt / 64-bit dat 4-pin SO DIMMs / one soc			64MB / 256MB	64MB / 256MB WS 98 PRELOAD ¹⁶		
Koyboard	sockets accessed from b	pottom via removing cover here. Fin key functions) / slope	neld by ph	iillips-head scre	ws - Microsoft® Win	dows® 98 Second Edition		
Keyboard Keyboard light Pointing	four customizable color- 1482/83/92: ThinkLight TrackPoint® / Press-to-S	coded Easy Launch butt t™ / keyboard light (to work elect / Release-to-Select /	ons ¹⁸ / tw k in low lig dragging	o Windows key ght) / click pace /	Access ThinkPIntelligent Onlin	Itility ad ne Information System		
Dimensions ¹⁹	1422: 12.9x10.6x1.61" front and 1.75" rear 1442: 1.59" front and 1.73" rear 82/83: 12.9x10.6x1.59" front and 1.73" rear 1492: 1.73" front and 2.00" rear Marketing Screen Marketing Screen					VD (DVD models)		
Weight ² Battery - type Battery - life ¹⁰ Charge time ¹⁰ - on / of	1422/42/82: 2.0 hrs	4 lbs; 1482/92: 7.9 lbs lligent / right 1483/92: Li-I 1483/92: 3.5 / 2.1 hrs off 1483/92: 4.0	 Earthlink Quicken 2000 Norton AntiViru 	- Earthlink				
Architecture Port replicator Docking station PCMCIA™ slots USB / serial / parallel Other features	Intel 440BX AGPset / PIIX4M (EIDE, USB, PCI to ISA bdg) / AGP for graphics / T11410 PCMCIA controller / PCI 2.1 32-bit 33Mhz (EIDE, modem, PCMCIA, USB, audio) / ISA (diskette, serial, parallel, infrared) / NS PC97338 Super I/O None None 1 Type I or 1 Type II or 1 Type III / CardBus 32-bit / Zoomed Video One USB / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional) • Abode 2				America Online ConfigSafe® IBM Update Cc PC-Doctor™ (se IBM Global Net Netscape Com ThinkPad on th	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	ACPI power mgmt / Universal AC adapter, 3 prong, barrel, slim, 56 watts S-Video out conn on side (does not require cable) None (software support for MPEG-1 in Windows 98) 56K³ V.90 / integrated in system / Lucent® 1646 / Mini PCI Type IIIb / 16-bit SoundBlaster Pro™ audio support / PCI / ES1946 / full duplex support Altec Lansing® SoundGuide stereo speakers w/ Dynamic Equalization Circuit¹ Dial volume control (front side) / internal microphone Microphone jack (stereo) / headphone jack (stereo) / line-in jack (all left sid None				Real Jukébox Actus® SmartS Tom Lehman C World Book En Software Select Product Recove	Real Jukébox Lotus® SmartSuite® Millennium CD-RON Tom Lehman Golf Pro 98/99/2000 CD World Book Encyclopedia CD-ROM Software Selections CD-ROM Product Recovery CD-ROM Pressing F1 during startup brings up		
Security	Power-on password / hakeyhole	ard disk password / superv		ager available during				
Limited warranty ¹¹ Service options ¹⁵	On-site, M-F, 8-5, next I	Serv™.9 (door-to-door depous day (72 cities)	ot repair s	ervice) or carry	C: drive is FAT1	6 of 2GB 32 of remaining space		
Metallic,Terra Green Metallic, Lunar Grey Andromeda Green, F Visit www.ibm.com/p	dels only ²⁰): Mars Red Metallic, Eclipse Blue Metallic, Sirius Red, Polaris Blue cc/us/thinkpad/iseries/ Information and to order dels only ²⁰ External Monitor 60Hz 75Hz 85Hz 16M	OP1 - 32MB SO DIMM 100MH - 64MB SO DIMM 100MH - 128MB SO DIMM 100MH - 128MB SO DIMM 100M - 138M MultiPort USB Hub - Li-lon Battery - Ultraslim 56 watt AC Ac - 10/100 EtherJet™ Card - Visit www.ibm.com/pc/ca - ThinkPad Proven™ solwww.ibm.com/pc/us/th - Visit www.ibm.com/pc/ (U.S.) or www.ibm.com/pc/(U.S.)	Hz NP SD MHz NP Si dapter (3 p Bus Adap fus/accessol utions (12 (v inkpad/pr fus/thinkpa	RAM 20L025 DRAM 20L025 00N821 02K650 orong) 02K654 oter 34L130 sories (U.S.) ries (CA) risit oven) ad/iseries	Owner Privilege PC 98-complian ACPI enabled Setup Guide, Us: Windows manu Reference Carr System Status In Plug and Play 1.0 Standby mode at ENERGY STAR- International Wa 24 hour / 7 day' board, fax, ele-	EATURES s¹³ program t er's Reference, al, and Quick d idicators 0a nd hibernation mode compliant		