

ThinkPad® T510 4349 (Windows 7) - withdrawn

Personal Systems Reference (PSREF)

Type-model	Processor	Base (GHz)	Max turbo (GHz)	Memory (MHz)	Wide-screen display	Camera	Disk SATA GB ⁸ rpm	PCIe Mini Card 802.11	PCIe Mini Card WWAN	Finger print reader	Blue-tooth	Power Adapter (watt)	Intel vPro	Pre-load	Workhorse (W) Gbl (G) GMP (P)	Avail date
4349-3JU	i5-520M	2.40	2.93	2GBx1 1066	15.6" HD	2.0M	250G 5400	6200 ²⁸	Gobi AT&T ²³	Finger	Blue	90W vPro	Pro 32	Pro 32	Jan 10	
4349-3KU	i5-520M	2.40	2.93	2GBx1 1066	15.6" HD+	2.0M	320G 7200	6200	Gobi Verizon ¹⁶	Finger	Blue	90W vPro	Pro 32	Pro 32	Jan 10	
4349-2LU	i5-520M	2.40	2.93	2GBx1 1066	15.6" HD		320G 5400	11b/g/n upg				65W	Pro 32	Pro 32	Jan 10	
4349-2NU	i5-520M	2.40	2.93	2GBx1 1066	15.6" HD+	2.0M	320G 7200	6200	Gobi AT&T	Finger	Blue	65W vPro	Pro 32	Pro 32	Feb 10	
4349-2PU	i7-620M	2.66	3.33	4GBx1 1333	15.6" HD+	2.0M	500G 7200	6200	upg	Finger	Blue	65W vPro	Pro 32	Pro 32	Jan 10	
4349-2MU	i5-520M	2.40	2.93	2GBx1 1066	15.6" HD	2.0M	500G 7200	11b/g/n upg		Finger	Blue	65W	Pro 32	W G	Jan 10	
4349-3AU	i5-520M	2.40	2.93	2+1GB 1066	15.6" HD	2.0M	320G 5400	6200	upg	Finger	Blue	65W vPro	Pro 32	W G	Jan 10	
4349-4BU	i5-520M	2.40	2.93	2+1GB 1066	15.6" HD	2.0M	80G SSD	6200	upg	Finger	Blue	65W vPro	Pro 32	G	Feb 10	
4349-4VU	i5-520M	2.40	2.93	2GBx2 1066	15.6" HD	2.0M	320G 5400	6200	upg			65W vPro	Pro 64	G	Mar 10	
4349-57U	i5-540M	2.53	3.06	2GBx1 1066	15.6" HD+	2.0M	320G 7200	6200	Gobi AT&T	Finger	Blue	65W vPro	Pro 32	G	Apr 10	
4349-4XU	i5-520M	2.40	2.93	2GBx1 1066	15.6" HD	2.0M	160G 7200	6200	upg		Blue	65W vPro	Pro 32	G	Apr 10	
4349-5CU	i5-520M	2.40	2.93	2GBx1 1066	15.6" HD+	2.0M	160G 7200	6200	upg		Blue	65W vPro	Pro 64	G	May 10	
4349-5EU	i5-540M	2.53	3.06	2GBx1 1066	15.6" HD+	2.0M	160G 7200	6200	upg		Blue	65W vPro	Pro 64	G	May 10	
Positioning Processor	<i>Premiere performance; two spindles</i> Intel® Core™ i5 processor i5-520M or i5-540M with dual-core, or Intel Core i7 processor i7-620M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology; <i>i5-520M/ i5-540M: 3MB cache; i7-620M: 4MB cache</i>											Preloaded operating system²⁰ - Some: Genuine Windows [®] 7 Professional 32 - Some: Genuine Windows 7 Professional 64				
Memory	2GB, 3GB, or 4GB std / 8GB max ⁷ / PC3-8500 1066MHz or PC3-10600 1333MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets											Preloaded applications¹⁴ (only some listed) • Rescue and Recovery [™] • Access Connections [™] • Password Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • ThinkVantage Toolbox • Norton [™] Internet Security 2011 (30 days of virus definitions) • Adobe [®] Reader [®] • Adobe Flash [™] Player • Windows Live [™] Toolbar • Skype [™] for Windows • Microsoft Office 2010 preloaded; purchase product key to activate • Microsoft Research AutoCollage Touch • Roxio [®] Creator [®] Business Edition (DVD±RW) • Roxio MyDVD [®] (DVD±RW) • Corel [®] WinDVD [®] (DVD±RW)				
SATA DVD±RW Ultrabay Enhanced SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access <i>Some: 80GB⁸ Solid State Drive (SSD) / SATA 3.0Gb/s, 1.8" wide, 8mm high</i> <i>Some: 160GB (7200 rpm), 250GB (5400 rpm), 320GB (5400 or 7200 rpm), or 500GB (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, Active Protection System[™]</i> <i>All: removable, upgradable, supports 2nd disk, Shock Mounted Hard Drive</i>															
Widescreen display	<i>Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio</i> <i>Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio</i>															
Camera	<i>Some: camera on top of screen, 2.0-megapixel, fixed focus</i>															
Integrated graphics	Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via cable 45J7915); supports dual independent display; <i>Maximum external resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915)</i>															
Keyboard TrackPoint [®] Touchpad ThinkLight [™]	89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint [®] pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass UltraNav [™] , wide touchpad below keybrd, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions															
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	<i>15.6W" (WxDxH): 14.68" x 9.65" x 1.26-1.41"; 372.8mm x 245.1mm x 32-35.8mm</i> <i>6-cell: starting at 5.66 lb (2.57kg); 9-cell: starting at 6.01 lb (2.72kg)</i> <i>Display cover: Glass-fiber reinforced plastic; Base: Carbon-fiber reinforced plastic</i> Lithium Ion 6-cell , supports optional Slice battery (57Y4545) as 2nd battery at bottom <i>6-cell: up to 6.2 hr; 9-cell: up to 10.4 hr; 9-cell plus Slice battery: up to 20.8 hr</i>															
Chipset ExpressCard/34 Smart Card read Multicard reader Ports	Mobile Intel QM57 Express Chipset One slot (ExpressCard/34) None 5-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC) Four USB 2.0 (one powered), external monitor (VGA DB-15, DisplayPort), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)											Supports ThinkVantage [®] technologies				
PCIe Mini Card 11b/g/n Intel 6200 ²⁸ WWAN upg Gobi [™] 2000 Carrier Modem Bluetooth [™] Ethernet	Two PCI Express Mini Card slots <i>Some: 11b/g/n wireless⁴, ThinkPad 11b/g/n, PCIe Half Mini Card</i> <i>Some: 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino[®] Advanced-N 6200, 2x2</i> <i>Some: Wireless WAN upgradable</i> <i>Some: Wireless WAN, Qualcomm chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, contract required with service provider</i> <i>Some: AT&T[®] or Verizon[®], contract required with service provider</i> 56K V.92 ⁶ modem <i>Some: Bluetooth 2.1 wireless, LED indicator</i> <i>Non-vPro model: Intel 82577LC Gigabit Network Connection (Hanksville), PHY, PCIe x1</i> <i>vPro model: Intel 82577LM Gigabit Network Connection (Hanksville), PHY, PCIe x1</i>											65-watt or 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT [™] Gold rating ENERGY STAR [®] 5.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² via 800-426-7378				
Intel AMT Audio support Security Security chip Fingerprint reader	Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20585 codec / stereo speakers, 1 watt x 2 / speaker volume up, down and mute buttons / dual array microphone, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant <i>Some: UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip</i>											ThinkPlus [™] . ²² 3-year LOR ²⁴ 9x5 NBD 45K6021 ThinkPlus 4-year LOR 9x5 NBD 45K6022 ThinkPlus 5-year LOR 9x5 NBD 45K6024 ThinkPlus 4-year P&L P/U Depot 45K6023 ThinkPlus 5-year P&L P/U Depot 45K6025 Post-warranty annual maintenance agreements at lenovo.com/thinkplus/warranty				
Limited warranty ¹²	3-years/1-yr battery depot repair service / service upgrades²² available															

See footnotes for important warranty information
US models announced January 7, March 2, April 6, or May 4, 2010
US models withdrawn effective June 2011

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