

Product Specifications Reference Lenovo® ThinkPad® Tablets/Convertibles 2014 to present - withdrawn

July 2014 - Version 457 (Western Europe)



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Summary of Changes

This section describes the withdrawn products which are added in this edition and in previous editions.

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► Withdrawn product(s)

ThinkPad Twist S230u are withdrawn and added in the book

ThinkPad Twist S230u





Lenovo® ThinkPad Twist S230u (Tent Mode)



Lenovo® ThinkPad Twist S230u (Tablet Mode)



Lenovo® ThinkPad Twist S230u (Notebook Mode)



Lenovo® ThinkPad Twist S230u (Stand Mode)



Lenovo® ThinkPad Twist S230u



Lenovo® ThinkPad Twist S230u

ThinkPad Twist S230u (3347) - TopSeller

Type-model	Processor	Memory	Widescreen display	Camera	Disk SATA GB [®] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	l SIM card	Top color	Blue- tooth		Preload	Ann date (mm/yy)
3347-4TG	i3-2375M	2GB	12.5" HD <i>Multi</i>	720p	320G 7200	Intel 2230	16GB	None	Black	BT	8	Win8 64	01/13

- Small and medium business (SMB) model(s), part of the WE TopSeller™ Program A depot repair service 1-year limited warranty

Positioning Processor	Convertible tablet; one spindle Intel® Core™ i3-2375M processor (2 cores, 1.50GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), HT technology	Preloaded operating system ²⁰ - Windows® 8 64-bit
Memory	2G / PC3-10600 1333MHz DDR3 / soldered to systemboard, no SO-DIMM sockets	Preloaded applications ¹⁴ (only some listed) • Lenovo Support
Optical SATA disk mSATA™ SSD	None Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable 16GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot	Lenovo Companion Lenovo Cloud Storage Password Manager Fingerprint Software (fingerprint models)
Widescreen display	12.5" (317.5mm) HD (1366x768) TFT color, smudgeless and anti-reflective display with Corning® Gorilla® Glass, LED backlight, 350 nits, 16:9 aspect ratio, 500:1 contrast ratio, IPS, rotate and swivel hinge Bottom buttons: volume up / down and Windows buttons Side buttons: power and auto rotation buttons Projected Capacitive Touch (PCT) technology, supports 5-point multi-touch	 ThinkVantage System Update Norton™ Internet Security (30 days of virus definitions) Microsoft Office preloaded; purchase a product key to activate Skype™
Camera Graphics	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus Intel HD Graphics 3000 in processor, supports external digital monitor via Mini HDMI and Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600 (Mini DisplayPort)@60Hz; 1920x1200 (Mini HDMI)@60Hz	
Keyboard TrackPoint® Touchpad Light sensor ThinkLight™	6-row, 83-key, spill-resistant, multimedia Fn keys TrackPoint pointing device UltraNav™, buttonless touchpad below keyboard, Tap Zones, multi-touch Ambient light sensor None	
Dimensions ³ Weight ² Case material Battery - type Extended Battery Battery - life ¹⁰	8-cell: 12.32" x 9.29" x 0.79"; 313mm x 236mm x 20mm 8-cell: from 3.50 lb (1.60kg) Display cover: Magnesium + Polyphenylene sulfide (PPS); Bottom: Magnesium + PPS Integrated Li-Polymer 8-cell, HW Authentication None 8-cell (42.4Whr): up to 6.0 hr	
Chipset Multicard Reader ExpressCard Smart Card Read Ports	Mobile Intel HM77 Express Chipset 4-in-1 reader (SD, SDHC, SDXC, MMC) None None Two USB 3.0, external monitor (mini-HDMI, mini-DisplayPort), ethernet (RJ-45)	
PCIe Mini Card PCIe WLAN ⁴ PCIe WWAN SIM card Modem	Two PCI Express Mini Card slots 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, 2x2, Wi-Fi + BT combo adapter None None None	
Bluetooth™ Ethernet	Bluetooth 4.0 wireless, integrated in WLAN PCIe Half Mini Card Gigabit Network Connection Realtek® RTL8111F, PHY, PCIe x1	Supports ThinkVantage® technologies
Intel AMT Audio support Security Security chip	None High Definition (HD) Audio, Realtek ALC3202 codec / stereo speakers, 2 watt x 2, Dolby® Home Theater® v4 certified / volume up, down, mute buttons / dual array microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant	65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified ROHS-compliant International Warranty Service¹7
Fingerprint reader Limited warranty ¹²	1-year - depot repair service / service upgrades ²² available	24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²

ThinkPad Twist S230u (3347) - TopSeller (Ultrabook)

Type-model	Processor	Memory	Widescreen display	Camera	Disk SATA GB [®] rpm	PCIe Mini Card WLAN	PCIe Mini C WWAN/ mSATA	ard SIM card	Top color	Blue- t	Bat- tery cells	Preload	Ann date (mm/yy)
3347-29G	i7-3517U	8GB	12.5" HD <i>Multi</i>	720p	128G SSD	Intel 2230	Ericsson	Selectable	Black	ВТ	8	Win8 Pro64	10/12
3347-28G	i7-3517U	8GB	12.5" HD <i>Multi</i>	720p	128G SSD	Intel 2230	Ericsson	Selectable	Black	BT	8	Win8 64	10/12
3347-27G	i5-3317U	4GB	12.5" HD <i>Multi</i>	720p	500G 7200	Intel 2230	24GB	None	Black	ВТ	8	Win8 Pro64	10/12
3347-26G	i5-3317U	4GB	12.5" HD <i>Multi</i>	720p	500G 7200	Intel 2230	24GB	None	Black	BT	8	Win8 64	10/12
3347-4PG	i3-3217U	4GB	12.5" HD Multi	720p	320G 7200	Intel 2230	24GB	None	Black	BT	8	Win8 Pro64	12/12
3347-4NG	i3-3217U	4GB	12.5" HD <i>Multi</i>	720p	320G 7200	Intel 2230	24GB	None	Black	BT	8	Win8 64	12/12
3347-8TG	i3-3217U	4GB	12.5" HD <i>Multi</i>	720p	128G SSD	Intel 2230	Ericsson	Selectable	Black	BT	8	Win8 Pro64	08/13

- Small and medium business (SMB) model(s), part of the WE TopSeller™ Program
 A depot repair service 1-year limited warranty

Memory AGB or BGB / PC3-10600 1333MHz DDR3 / soldered to systemboard, Poptical None SATA disk Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5° wide, 7mm high, Active Protection System™ Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high, Active Protection System™ Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high, Active Protection System™ MSATA™ SSD Some: 24GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot Widescreen display Widescreen display Hard Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high, Active Protection System™ MSATA™ SSD Some: 24GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot Widescreen display Hard Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high, Active Protection System™ MSATA™ SSD Some: 24GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot Widescreen display Hard Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high, Active Protection System™ Minimal Solid Districts Solid Districts Hard Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high, Active Protection System™ Minimal Solid Districts Hard Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high, Active Protection System Undate Hard Districts Hard Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high, Active Protection System™ Minimal Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high, Active Protection System™ Minimal Districts Hard Districts	Positioning Processor	Convertible tablet ultrabook™; one spindle Intel® Core™ i3-3217U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), HT technology Intel Core i5-3317U processor (2 cores, 1.70GHz, 3MB Cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.60GHz), HT technology Intel Core i7-3517U processor (2 cores, 1.90GHz, 4MB Cache), Intel HD Graphics 4000,	Preloaded operating system ²⁰ - Some: Windows® 8 64-bit - Some: Windows 8 Pro 64-bit Preloaded applications ¹⁴ (only some listed) • Lenovo Support
SATA disk Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5° wide, 7mm high Some: Arad Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high Some: Arad Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high Some: Arad Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high Some: Arad Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high Some: Arad Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high Some: Arad Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high Some: Arad Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high Some: Arad Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high Some: Arad Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high Some: Arad Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high Some: Arad Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high Some: Arad Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high Some: Arad Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high Some: Arad Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high Some: Arad Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high Some: Arad Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high Some: Arad Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high Some: Arad Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high Some: Arad Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high Some: Arad Sata Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high Some: Arad Sata Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high Some: Arad Sata Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high Some: Arad Sata Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high Some: Arad Sata Drive / SATA 3.0Gb/s, 2.5° wide, 7mm high, Active Protection System Sata Drive / Sat	Memory	4GB or 8GB / PC3-10600 1333MHz DDR3 / soldered to systemboard,	Lenovo Companion Lenovo Cloud Storage
Widescreen display 12.5" (317.5mm) HD (1365x768) TFT color, smudgeless and anti-reflective display with Cornings Gorilla® Glass, LED backlight, 350 nits, 169 aspect ratio, 5001: contrast ratio, IPS, rotate and swivel hinge Bitton buttons. Volume up / down and Mindows buttons. When the projected Capacitive Touch (PCT) technology, supports 5-point multi-touch HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus. Intel HD Graphics 4000 in processor, supports external digital monitor via Mind HDMI and Mini DisplayPort; supports external digital monitor via Mind HDMI and Mini DisplayPort; supports external digital monitor via Mind HDMI and Mini DisplayPort; supports external digital monitor via Mind HDMI and Mini DisplayPort; supports external digital monitor via Mind HDMI and Mini DisplayPort; supports external digital monitor via Mind HDMI and Mini DisplayPort; supports external digital monitor via Mind HDMI and Mini DisplayPort; supports external digital monitor via Mind HDMI and Mini DisplayPort; supports external digital monitor via Mind HDMI and Mini DisplayPort; supports external digital monitor via Mind HDMI and Mini DisplayPort; supports external digital monitor via Mind HDMI and Mini DisplayPort; supports external digital monitor via Mind HDMI and Mini DisplayPort; supports supports external digital monitor via Mind HDMI and Mini DisplayPort; supports sup	Optical SATA disk	None Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable	Fingerprint Software (fingerprint models) ThinkVantage System Update Norton™ Internet Security
Camera HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus Intel HD Graphics 4000 in processor, supports external digital monitor via Mini HDMI and Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600 (Mini DisplayPort) @ 60Hz; 1920x1200 (Mini HDMI) @ 60Hz Keyboard TrackPoint* TrackPoint* TrackPoint or T	Widescreen	12.5" (317.5mm) HD (1366x768) TFT color, smudgeless and anti-reflective display with Corning® Gorilla® Glass, LED backlight, 350 nits, 16:9 aspect ratio, 500:1 contrast ratio, IPS, rotate and swivel hinge Bottom buttons: volume up / down and Windows buttons Side buttons: power and auto rotation buttons	Microsoft Office preloaded; purchase a product key to activate
TräckPoint* TrackPoint pointing device TrackPointing pointing pointing TrackPointing pointing point	Camera Graphics	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus Intel HD Graphics 4000 in processor, supports external digital monitor via Mini HDMI and Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600 (Mini DisplayPort)@60Hz;	
Weight® 8-cell: from 3.50 lb (1.60kg) Display cover: Magnesium + Polyphenylene sulfide (PPS); Bottom: Magnesium + PPS Integrated Li-Polymer 8-cell, HW Authentication None Battery - type Extended Batters Battery - life¹⁰	Keyboard TrackPoint® Touchpad Light sensor ThinkLight™	6-row, 83-key, spill-resistant, multimedia Fn keys TrackPoint pointing device UltraNav™, buttonless touchpad below keyboard, Tap Zones, multi-touch Ambient light sensor	
Multicard Reader ExpressCard Smart Card Read Ports Two USB 3.0, external monitor (mini-HDMI, mini-DisplayPort), ethernet (RJ-45) PCIe Mini Card PCIe WLAN⁴ Two PCI Express Mini Card slots 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, 2x2, Wi-Fi + BT combo adapter PCIe WWAN Some: Wireless WAN, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card, GPRS/WCDMA/HSPA/HSPA+, GPS SIM card Modem None Bluetooth™ Bluetooth™ Gigabit Network Connection Realtek® RTL8111F, PHY, PCIe x1 Intel AMT None Audio support High Definition (HD) Audio, Realtek ALC3202 codec / stereo speakers, 2 watt x 2, Dolby® Home Theater® v4 certified / volume up, down, mute buttons / dual array microphone, combo audio/mic jack Security Security chip Fingerprint reader Fingerprint reader A-in-1 reader (SD, SDHC, SDXC, MMC) None None Two USB 3.0, external monitor (mini-HDMI, mini-DisplayPort), ethernet (RJ-45) Two USB 3.0, external monitor (mini-HDMI, mini-DisplayPort), ethernet (RJ-45) Two USB 3.0, external monitor (mini-HDMI, mini-DisplayPort), ethernet (RJ-45) Two USB 3.0, external monitor (mini-HDMI, mini-DisplayPort), ethernet (RJ-45) Two USB 3.0, external monitor (mini-HDMI, mini-DisplayPort), ethernet (RJ-45) Two USB 3.0, external monitor (mini-HDMI, mini-DisplayPort), ethernet (RJ-45) Two USB 3.0, external monitor (mini-HDMI, mini-DisplayPort), ethernet (RJ-45) Two USB 3.0, external monitor (mini-HDMI, mini-DisplayPort), ethernet (RJ-45) Two USB 3.0, external monitor (mini-HDMI, mini-DisplayPort), ethernet (RJ-45) Two USB 3.0, external monitor (mini-HDMI, mini-DisplayPort), ethernet (RJ-45) Two USB 3.0, external monitor (mini-HDMI, mini-DisplayPort), ethernet (RJ-45) Two USB 3.0, external monitor (wireless-N 2230, 2x2, with card play Pole Pole Half Mini Card, GPES Manier Supports ThinkVantage® technologies 65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant International Warranty Service¹ 24 hour x 7 day¹® toll-free support	Dimensions ³ Weight ² Case material Battery - type Extended Battery Battery - life ¹⁰	8-cell: from 3.50 lb (1.60kg) Display cover: Magnesium + Polyphenylene sulfide (PPS); Integrated Li-Polymer 8-cell, HW Authentication None Bottom: Magnesium + PPS	
PCIe WLAN ⁴ 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, 2x2, Wi-Fi + BT combo adapter PCIe WWAN Some: Wireless WAN, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card, GPRS/WCDMA/HSPA+, GPS SIM card Modem None Bluetooth™ Bluetooth™ Bluetooth™ Bluetooth 4.0 wireless, integrated in WLAN PCIe Half Mini Card Gigabit Network Connection Realtek® RTL8111F, PHY, PCIe x1 None Audio support High Definition (HD) Audio, Realtek ALC3202 codec / stereo speakers, 2 watt x 2, Dolby® Home Theater® v4 certified / volume up, down, mute buttons / dual array microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Fingerprint reader 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, 2x2, Wi-Fi + BT combo adapter Some: Wireless WAN, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card, GPES/WCDA, Sepsilon Card, GPES/WCDA/HSPA+, GPS Supports ThinkVantage® technologies 65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified ROHS-compliant International Warranty Service¹7 24 hour x 7 day¹® toll-free support	ExpressCard	4-in-1 reader (SD, SDHC, SDXC, MMC) None None	
SIM card Modem None Bluetooth [™] Bluetooth 4.0 wireless, integrated in WLAN PCle Half Mini Card Ethernet Intel AMT Audio support High Definition (HD) Audio, Realtek ALC3202 codec / stereo speakers, 2 watt x 2, Dolby® Home Theater® v4 certified / volume up, down, mute buttons / dual array microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Security Chip Fingerprint reader Supports ThinkVantage® technologies Supports ThinkVantage® technologies 65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified ROHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support	PCIe Mini Card PCIe WLAN ⁴ PCIe WWAN	11b/g/n, PCle Half Mini Card, Intel Centrino® Wireless-N 2230, 2x2, Wi-Fi + BT combo adapter Some: Wireless WAN, Ericsson® H5321gw Mobile Broadband Module, PCle Half Mini Card,	
Intel AMT None Audio support High Definition (HD) Audio, Realtek ALC3202 codec / stereo speakers, 2 watt x 2, Dolby® Home Theater® v4 certified / volume up, down, mute buttons / dual array microphone, combo audio/mic jack Security Power-on password, hard disk password, supervisor password, security keyhole Security chip Trusted Platform Module, TCG 1.2-compliant Fingerprint reader None 65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified ROHS-compliant International Warranty Service¹7 24 hour x 7 day¹® toll-free support	SIM card Modem Bluetooth™	Some: User selectable, contract required with service provider None Bluetooth 4.0 wireless, integrated in WLAN PCIe Half Mini Card	Supports ThinkVantage® technologies
Security chip Trusted Platform Module, TCG 1.2-compliant International Warranty Service ¹⁷ Fingerprint reader None 24 hour x 7 day ¹⁸ toll-free support	Intel AMT Audio support	None High Definition (HD) Audio, Realtek ALC3202 codec / stereo speakers, 2 watt x 2, Dolby® Home Theater® v4 certified / volume up, down, mute buttons / dual array microphone, combo audio/mic jack	65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified
EILING WALLAND I-VEN - UCDULICUM SCIVICE / SCIVICE UDUIQUES AVAIIADE UUIIIU IIU WALLAND WALLAND	Security chip Fingerprint reader	Trusted Platform Module, TCG 1.2-compliant None	International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support