ThinkPad.

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2014 to present - withdrawn

July 2014 - Version 457 (Western Europe)

ThinkPad Twist

Contents

Summary of Changes

This section describes the withdrawn products which are added in this edition and in previous editions.

July 30, 2014 - Version 457

► **Withdrawn product(s)**
ThinkPad Twist S230u are withdrawn and added in the book

ThinkPad Twist S230u

ThinkPad®

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[8] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	SIM card	Top color	Blue-tooth	Bat-tery cells	Preload	Ann date (mm/yy)
3347-4TG	i3-2375M	2GB	12.5" HD *Multi*	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	*Convertible tablet; one spindle*
Processor	**Intel® Core™ i3-2375M processor (2 cores, 1.50GHz, 3MB cache)**, **Intel HD Graphics 3000**, DDR3 memory controller (up to 1333MHz), HT technology
Memory	2G / PC3-10600 1333MHz DDR3 / soldered to systemboard, no SO-DIMM sockets
Optical	None
SATA disk	*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
mSATA™ SSD	16GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot
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
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 5-point multi-touch
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus
Graphics	**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	6-row, 83-key, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint pointing device
Touchpad	UltraNav™, buttonless touchpad below keyboard, Tap Zones, multi-touch
Light sensor	Ambient light sensor
ThinkLight™	None
Dimensions[3]	*8-cell:* 12.32" x 9.29" x 0.79"; 313mm x 236mm x 20mm
Weight[2]	*8-cell:* from 3.50 lb (1.60kg)
Case material	*Display cover:* Magnesium + Polyphenylene sulfide (PPS); *Bottom:* Magnesium + PPS
Battery - type	Integrated Li-Polymer 8-cell, HW Authentication
Extended Battery	None
Battery - life[10]	*8-cell (42.4Whr):* up to 6.0 hr
Chipset	**Mobile Intel HM77 Express Chipset**
Multicard Reader	4-in-1 reader (SD, SDHC, SDXC, MMC)
ExpressCard	None
Smart Card Read	None
Ports	Two USB 3.0, external monitor (mini-HDMI, mini-DisplayPort), ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
PCIe WLAN[4]	11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, 2x2, Wi-Fi + BT combo adapter
PCIe WWAN	None
SIM card	None
Modem	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in WLAN PCIe Half Mini Card
Ethernet	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	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	Trusted Platform Module, TCG 1.2-compliant
Fingerprint reader	None
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- Windows® 8 64-bit

Preloaded applications[14] (only some listed)
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Password Manager
- Fingerprint Software (fingerprint models)
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Microsoft Office preloaded; purchase a product key to activate
- Skype™

Supports ThinkVantage® technologies

65-watt AC Adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
GREENGUARD® certified
ROHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

See footnotes for more detailed information
WE model(s) announced January 1, 2013

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

Positioning	*Convertible tablet ultrabook™; one spindle*
Processor	**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**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.00GHz), HT technology
Memory	4GB or 8GB / PC3-10600 1333MHz DDR3 / soldered to systemboard, no SO-DIMM sockets
Optical	None
SATA disk	*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
mSATA™ SSD	*Some:* 24GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot
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
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 5-point multi-touch
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus
Graphics	**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	6-row, 83-key, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint pointing device
Touchpad	UltraNav™, buttonless touchpad below keyboard, Tap Zones, multi-touch
Light sensor	Ambient light sensor
ThinkLight™	None
Dimensions[3]	*8-cell:* 12.32" x 9.29" x 0.79"; 313mm x 236mm x 20mm
Weight[2]	*8-cell:* from 3.50 lb (1.60kg)
Case material	*Display cover:* Magnesium + Polyphenylene sulfide (PPS); *Bottom:* Magnesium + PPS
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Extended Battery	None
Battery - life[10]	*8-cell (42.4Whr):* up to 6.0 hr
Chipset	**Mobile Intel HM77 Express Chipset**
Multicard Reader	4-in-1 reader (SD, SDHC, SDXC, MMC)
ExpressCard	None
Smart Card Read	None
Ports	Two USB 3.0, external monitor (mini-HDMI, mini-DisplayPort), ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
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/HSPA+, GPS
SIM card	*Some:* User selectable, contract required with service provider
Modem	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in WLAN PCIe Half Mini Card
Ethernet	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	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	Trusted Platform Module, TCG 1.2-compliant
Fingerprint reader	None
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Windows® 8 64-bit
- *Some:* Windows 8 Pro 64-bit

Preloaded applications[14] (only some listed)
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Password Manager
- Fingerprint Software (fingerprint models)
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
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International Warranty Service[17]
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See footnotes for more detailed information
WE model(s) announced October 23 or December 4, 2012; August 20, 2013

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