Lenovo

Lenovo ThinkPad Twist S230u Intel® Core™ i3 i3-3217U Laptop 31.8 cm (12.5") Touchscreen 4 GB DDR3-SDRAM 344 GB HDD+SSD Wi-Fi 4 (802.11n) Windows 8 Black

Brand : Lenovo **Product family:** ThinkPad **Product code:** N3C4NUK

Product name : Twist S230u

Intel Core i3-3217U (1.8GHz), 4GB RAM, 320GB 7200rpm HD, 24GB mSATA SSD, 12.5in 1366x768 LCD, Intel HD Graphics 4000, UltraNav, Secure Chip, 8c Li-Ion, Windows 8 64

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IT TWISTS. IT BENDS. IT FOLDS. IT SPINS.
Twist transforms into a laptop when you need to type, a tablet when you're on the go, and a stand when you want to share presentations. When you're ready to browse, bend it backward into a tent for a close-up view.

- Slim Ultrabook™ design with a multitouch display for precise control
- Active Protection System™ to protect your hard drive from damage if the system falls
- Magnesium alloy construction and Corning® Gorilla® Glass, to prevent breakage and scratches
- Intel Trusted Platform Module (TPM), to keep your data secure
- Lenovo Solutions for Small Business, for added security and after-hours maintenance

Design

Product type *	Laptop
Product color *	Black
Form factor *	Convertible (Swivel)

Display

Display diagonal *	31.8 cm (12.5")
Display resolution *	1366 x 768 pixels
Touchscreen *	✔
Touch technology	Multi-touch
LED backlight	✔
Native aspect ratio	16:9
Display brightness	350 cd/m²
Contrast ratio (typical)	500:1

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i3
Processor generation	3rd gen Intel® Core™ i3
Processor model *	i3-3217U
Processor cores	2
Processor threads	4
Processor frequency *	1.8 GHz
System bus rate	5 GT/s
Processor cache	3 MB
Processor cache type	Smart Cache
Processor socket	BGA 1023
Processor lithography	22 nm
Processor operating modes	64-bit
Processor series	Intel Core i3-3200 Mobile Series
Processor codename	Ivy Bridge
Bus type	DMI
FSB Parity	✘
Stepping	L1

Performance

Motherboard chipset	Intel HM77 Express

Keyboard

Pointing device	ThinkPad UltraNav
Numeric keypad *	✘
Spill-resistant keyboard	✔
Keyboard layout	QWERTY

Software

Operating system architecture	64-bit
Operating system installed *	Windows 8

Processor special features

Intel® Wireless Display (Intel® WiDi)	✔
Intel® My WiFi Technology (Intel® MWT)	✔
Intel® Anti-Theft Technology (Intel® AT)	✔
Intel® Identity Protection Technology (Intel® IPT)	✔
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Turbo Boost Technology	✘
Enhanced Intel SpeedStep Technology	✔
Intel® Clear Video HD Technology (Intel® CVT HD)	✔
Intel Clear Video Technology	✘
Intel® InTru™ 3D Technology	✔
Intel® Insider™	✔
Intel® Quick Sync Video Technology	✔
Intel Flex Memory Access	✔
Intel® Smart Cache	✔

Processor

Thermal Design Power (TDP)	17 W
Tjunction	105 °C
Maximum number of PCI Express lanes	16
PCI Express slots version	2.0
PCI Express configurations	1x16, 2x8, 1x8+2x4
CPU multiplier (bus/core ratio)	18
ECC supported by processor	✘

Memory

Internal memory *	4 GB
Internal memory type	DDR3-SDRAM
Memory clock speed	1333 MHz
Maximum internal memory *	4 GB

Storage

Total storage capacity *	344 GB
Storage media *	HDD+SSD
Number of HDDs installed	1
HDD capacity	320 GB
HDD interface	SATA
HDD speed	7200 RPM
Number of SSDs installed	1
SSD capacity	24 GB
SSD interface	mSATA
Optical drive type *	✘
Card reader integrated	✔
Compatible memory cards	MMC, SD, SDHC

Graphics

Discrete graphics card model *	Not available
On-board graphics card *	✔
Discrete graphics card *	✘
On-board graphics card family	Intel® HD Graphics
On-board graphics card model *	Intel® HD Graphics 4000
On-board graphics card base frequency	350 MHz
On-board graphics card dynamic frequency (max)	1050 MHz
On-board graphics card ID	0x166

Audio

Audio system	High Definition Audio
Number of built-in speakers	2
Speaker power	2 W
Built-in microphone	✔

Network

Wi-Fi	✔
Top Wi-Fi standard *	Wi-Fi 4 (802.11n)
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)
Ethernet LAN	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth	✔
Bluetooth version	4.0

Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Ethernet LAN (RJ-45) ports	1
Mini DisplayPorts quantity	1
DVI port	✘
Mini HDMI ports quantity	1

Processor special features

Intel® AES New Instructions (Intel® AES-NI)	✘
Intel Trusted Execution Technology	✘
Intel Enhanced Halt State	✔
Intel VT-x with Extended Page Tables (EPT)	✔
Intel Demand Based Switching	✘
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✘
Intel 64	✔
Execute Disable Bit	✔
Idle States	✔
Thermal Monitoring Technologies	✔
Processor package size	31 x 24 mm
Supported instruction sets	AVX
Processor code	SR0N9
CPU configuration (max)	1
Embedded options available	✘
Graphics & IMC lithography	22 nm
Intel Virtualization Technology for Directed I/O (VT-d)	✘
Intel Identity Protection Technology version	1.00
Intel Virtualization Technology (VT-x)	✔
Intel Dual Display Capable Technology	✔
Intel FDI Technology	✔
Intel Rapid Storage Technology	✘
Intel Fast Memory Access	✔
Processor ARK ID	65697
Conflict-Free processor	✔
Integrated 4G WiMAX	✔

Battery

Battery technology	Lithium Polymer (LiPo)
Number of battery cells	8
Battery life (max)	6 h

Power

AC adapter power	65 W
DC-in jack	✔

Security

Cable lock slot	✔
Trusted Platform Module (TPM)	✔
Password protection type	HDD, Power on, Supervisor

Certificates

Compliance certificates	RoHS

Sustainability

Sustainability certificates	EPEAT Gold, ENERGY STAR

Weight & dimensions

Width	313 mm
Depth	236 mm
Height	20 mm
Weight *	1.6 kg

Packaging content

AC adapter included *	✔
Cables included	AC

Ports & interfaces		Other features	
S/PDIF out port	✘	LightScribe	✘
Microphone in	✘		
Combo headphone/mic port	✔		
Docking connector	✘		
ExpressCard slot	✘		
CardBus PCMCIA slot type	✘		
SmartCard slot	✘		

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