



## 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		Performance	
Product type *	Laptop	Motherboard chipset	Intel HM77 Express
Product color *	Black	<b>Keyboard</b>	
Form factor *	Convertible (Swivel)	Pointing device	ThinkPad UltraNav
<b>Display</b>		Numeric keypad *	✗
Display diagonal *	31.8 cm (12.5")	Spill-resistant keyboard	✓
Display resolution *	1366 x 768 pixels	Keyboard layout	QWERTY
Touchscreen *	✓	<b>Software</b>	
Touch technology	Multi-touch	Operating system architecture	64-bit
LED backlight	✓	Operating system installed *	Windows 8
Native aspect ratio	16:9	<b>Processor special features</b>	
Display brightness	350 cd/m²	Intel® Wireless Display (Intel® WiDi)	✓
Contrast ratio (typical)	500:1	Intel® My WiFi Technology (Intel® MWT)	✓
<b>Processor</b>		Intel® Anti-Theft Technology (Intel® AT)	✓
Processor manufacturer *	Intel	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor family *	Intel® Core™ i3	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor generation	3rd gen Intel® Core™ i3	Intel® Turbo Boost Technology	✗
Processor model *	i3-3217U	Enhanced Intel SpeedStep Technology	✓
Processor cores	2	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor threads	4	Intel Clear Video Technology	✗
Processor frequency *	1.8 GHz	Intel® InTru™ 3D Technology	✓
System bus rate	5 GT/s	Intel® Insider™	✓
Processor cache	3 MB	Intel® Quick Sync Video Technology	✓
Processor cache type	Smart Cache	Intel Flex Memory Access	✓
Processor socket	BGA 1023	Intel® Smart Cache	✓
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		

Processor		Processor special features	
Thermal Design Power (TDP)	17 W	Intel® AES New Instructions (Intel® AES-NI)	✗
Tjunction	105 °C	Intel Trusted Execution Technology	✗
Maximum number of PCI Express lanes	16	Intel Enhanced Halt State	✓
PCI Express slots version	2.0	Intel VT-x with Extended Page Tables (EPT)	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel Demand Based Switching	✗
CPU multiplier (bus/core ratio)	18	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
ECC supported by processor	✗	Intel 64	✓
Memory		Execute Disable Bit	✓
Internal memory *	4 GB	Idle States	✓
Internal memory type	DDR3-SDRAM	Thermal Monitoring Technologies	✓
Memory clock speed	1333 MHz	Processor package size	31 x 24 mm
Maximum internal memory *	4 GB	Supported instruction sets	AVX
Storage		Processor code	SR0N9
Total storage capacity *	344 GB	CPU configuration (max)	1
Storage media *	HDD+SSD	Embedded options available	✗
Number of HDDs installed	1	Graphics & IMC lithography	22 nm
HDD capacity	320 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✗
HDD interface	SATA	Intel Identity Protection Technology version	1.00
HDD speed	7200 RPM	Intel Virtualization Technology (VT-x)	✓
Number of SSDs installed	1	Intel Dual Display Capable Technology	✓
SSD capacity	24 GB	Intel FDI Technology	✓
SSD interface	mSATA	Intel Rapid Storage Technology	✗
Optical drive type *	✗	Intel Fast Memory Access	✓
Card reader integrated	✓	Processor ARK ID	65697
Compatible memory cards	MMC, SD, SDHC	Conflict-Free processor	✓
Graphics		Integrated 4G WiMAX	✓
Discrete graphics card model *	Not available	Battery	
On-board graphics card *	✓	Battery technology	Lithium Polymer (LiPo)
Discrete graphics card *	✗	Number of battery cells	8
On-board graphics card family	Intel® HD Graphics	Battery life (max)	6 h
On-board graphics card model *	Intel® HD Graphics 4000	Power	
On-board graphics card base frequency	350 MHz	AC adapter power	65 W
On-board graphics card dynamic frequency (max)	1050 MHz	DC-in jack	✓
On-board graphics card ID	0x166	Security	
Audio		Cable lock slot	✓
Audio system	High Definition Audio	Trusted Platform Module (TPM)	✓
Number of built-in speakers	2	Password protection type	HDD, Power on, Supervisor
Speaker power	2 W	Certificates	
Built-in microphone	✓	Compliance certificates	RoHS
Network		Sustainability	
Wi-Fi	✓	Sustainability certificates	EPEAT Gold, ENERGY STAR
Top Wi-Fi standard *	Wi-Fi 4 (802.11n)	Weight & dimensions	
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)	Width	313 mm
Ethernet LAN	✓	Depth	236 mm
Ethernet LAN data rates	10,100,1000 Mbit/s	Height	20 mm
Bluetooth	✓	Weight *	1.6 kg
Bluetooth version	4.0	Packaging content	
Ports & interfaces		AC adapter included *	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Cables included	AC
Ethernet LAN (RJ-45) ports	1		
Mini DisplayPorts quantity	1		
DVI port	✗		
Mini HDMI ports quantity	1		

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	✗		

## Catalog Object Cloud



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