



Lenovo ThinkPad X230 Tablet Intel® Core™ i5 i5-3320M Hybrid (2-in-1) 31.8 cm (12.5") Touchscreen 4 GB DDR3-SDRAM 500 GB HDD Windows 7 Professional Black

Brand : Lenovo

Product family: ThinkPad

Product code: 343522U

Product name : X230 Tablet



X230 Tablet - Intel Core i5-3320M Processor (3M Cache, up to 3.30 GHz), 12.5" 1366 x 768 Multitouch, 4GB DDR3 1600MHz max.16GB, 500GB HDD 7200rpm, Gigabit Ethernet, WLAN 802.11 a/g/n, WWAN Ready, Bluetooth 4.0, HD WebCam, Fingerprint, Windows 7 Professional 64-bit
Lenovo ThinkPad X230 Tablet. Product type: Hybrid (2-in-1), Form factor: Convertible (Swivel). Processor family: Intel® Core™ i5, Processor model: i5-3320M, Processor frequency: 2.6 GHz. Display diagonal: 31.8 cm (12.5"), Display resolution: 1366 x 768 pixels, Touchscreen. Internal memory: 4 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 500 GB, Storage media: HDD. On-board graphics card model: Intel® HD Graphics 4000. Operating system installed: Windows 7 Professional. Product colour: Black



Design		Software	
Product type *	Hybrid (2-in-1)	Operating system architecture	64-bit
Product colour *	Black	Drivers included	✓
Form factor *	Convertible (Swivel)	Operating system installed *	Windows 7 Professional
Display		Processor special features	
Display diagonal *	31.8 cm (12.5")	Intel® Wireless Display (Intel® WiDi)	✓
Display resolution *	1366 x 768 pixels	Intel® My WiFi Technology (Intel® MWT)	✓
Touchscreen *	✓	Intel® Anti-Theft Technology (Intel® AT)	✓
Touch technology	Multi-touch	Intel® Identity Protection Technology (Intel® IPT)	✓
LED backlight	✓	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Native aspect ratio	16:9	Intel® Turbo Boost Technology	2.0
Processor		Enhanced Intel SpeedStep Technology	✓
Processor manufacturer *	Intel	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor family *	Intel® Core™ i5	Intel Clear Video Technology	✗
Processor generation	3rd gen Intel® Core™ i5	Intel® InTru™ 3D Technology	✓
Processor model *	i5-3320M	Intel® Insider™	✓
Processor cores	2	Intel® Quick Sync Video Technology	✓
Processor threads	4	Intel Flex Memory Access	✓
Processor boost frequency	3.3 GHz	Intel® Smart Cache	✓
Processor frequency *	2.6 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
System bus rate	5 GT/s	Intel Trusted Execution Technology	✓
Processor cache	3 MB	Intel Enhanced Halt State	✓
Processor cache type	Smart Cache	Intel VT-x with Extended Page Tables (EPT)	✓
Processor socket	BGA 1023	Intel Demand Based Switching	✗
Processor lithography	22 nm	Intel® Secure Key	✓
Processor operating modes	64-bit		
Processor series	Intel Core i5-3300 Mobile series		
Processor codename	Ivy Bridge		
Bus type	DMI		
FSB Parity	✗		
Stepping	L1		
Thermal Design Power (TDP)	35 W		
Tjunction	105 °C		

Processor		Processor special features	
Maximum number of PCI Express lanes	16	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
PCI Express slots version	3.0	Intel 64	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Execute Disable Bit	✓
Number of processors supported	1	Idle States	✓
CPU multiplier (bus/core ratio)	26	Thermal Monitoring Technologies	✓
ECC supported by processor	✗		
Memory		Processor package size	37.5 x 37.5 (rPGA988B); 31.0 x 24.0 (BGA1023)
Internal memory *	4 GB	Supported instruction sets	AVX
Internal memory type	DDR3-SDRAM	Processor code	SR0MY
Memory clock speed	1600 MHz	CPU configuration (max)	1
Memory slots	2x SO-DIMM	Embedded options available	✗
Maximum internal memory *	16 GB	Graphics & IMC lithography	22 nm
Storage		Intel Virtualization Technology for Directed I/O (VT-d)	✓
Total storage capacity *	500 GB	Intel Identity Protection Technology version	1.00
Storage media *	HDD	Intel Secure Key Technology version	1.00
Number of HDDs installed	1	Intel Virtualization Technology (VT-x)	✓
HDD capacity	500 GB	Intel Dual Display Capable Technology	✓
HDD speed	7200 RPM	Intel FDI Technology	✓
Optical drive type *	✗	Intel Rapid Storage Technology	✗
Card reader integrated	✓	Intel Fast Memory Access	✓
Compatible memory cards	MMC, SD, SDHC, SDXC	Processor ARK ID	64896
Graphics		Conflict-Free processor	✓
Discrete graphics card model *	Not available	Integrated 4G WiMAX	✓
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	650 MHz		
On-board graphics card dynamic frequency (max)	1200 MHz		
On-board graphics card ID	0x166		
Audio		Battery	
Built-in speaker(s)	✓	Number of battery cells	6
Number of built-in speakers	2	Battery life (max)	9.9 h
Built-in microphone	✓		
Network		Power	
Wi-Fi	✓	DC-in jack	✓
Networking features	Gigabit Ethernet, WLAN		
Wi-Fi standards	802.11a, 802.11g, Wi-Fi 4 (802.11n)		
Ethernet LAN	✓		
Ethernet LAN data rates	10,100,1000 Mbit/s		
Bluetooth	✓		
Bluetooth version	4.0		
Cabling technology	10/100/1000Base-T(X)		
Ports & interfaces		Security	
USB 2.0 ports quantity *	1	Cable lock slot	✗
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Fingerprint reader	✓
Ethernet LAN (RJ-45) ports	1		
DisplayPorts quantity	1		
DVI port	✗		
VGA (D-Sub) ports quantity	1		
Headphone outputs	1		
S/PDIF out port	✗		
Microphone in	✓		
		Certificates	
		Certification	ULE Gold
		Sustainability	
		Sustainability certificates	EPEAT Gold, ENERGY STAR
		Weight & dimensions	
		Width	305 mm
		Depth	228.7 mm
		Height (front)	2.7 cm
		Height (rear)	3.13 cm
		Width (imperial)	30.5 cm (12")
		Depth (imperial)	22.9 cm (9")
		Height (front) (imperial)	2.69 cm (1.06")
		Height (rear) (imperial)	3.12 cm (1.23")
		Weight *	1.66 kg
		Packaging content	
		AC adapter included *	✓
		Manual	✓
		Other features	
		LightScribe	✗

Ports & interfaces		Other features	
ExpressCard slot	✗	Infrared data port	✗
CardBus PCMCIA slot type	✗	Graphics card family	Intel
SmartCard slot	✗	Power supply type	AC/DC
Keyboard		Ethernet interface type	Gigabit Ethernet
Pointing device	ThinkPad UltraNav		
Numeric keypad *	✗		
Windows keys	✓		

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