



Lenovo ThinkPad X230 Intel® Core™ i5 i5-3320M 31,8 cm (12.5") 4 GB DDR3-SDRAM 180 GB SSD Windows 7 Professional

Brand : Lenovo

Product family: ThinkPad

Product code: 23244TU

Product name : X230

Intel Core i5-3320M(2.6GHz), 4GB RAM, 180GB SSD, 12.5in 1366x768 LCD, Intel HD Graphics, Windows 7 Professional 64

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GET TIME ON YOUR SIDE WITH INSPIRED MOBILE DESIGN.

Tough, slim and light, the ThinkPad X230 elevates the business laptop to a new level with its vivid IPS display, purer sound and peerless keyboard ergonomics. Start faster, resume faster and charge your battery less, giving you more time to strive for success.

Lenovo ThinkPad X230. Form factor: Clamshell. Processor type: Intel® Core™ i5, Processor: i5-3320M, Processor frequency: 2,6 GHz. Display diagonal: 31,8 cm (12.5"), Display resolution: 1366 x 768 pixels. Internal memory: 4 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 180 GB, Storage media: SSD. On-board graphics card model: Intel® HD Graphics 4000. Mobile network generation: 3G. Operating system software: Windows 7 Professional. Weight: 1,67 kg



Design		Keyboard	
Form factor *	Clamshell	Pointing device	ThinkPad UltraNav
Display		Numeric keypad *	✗
Display diagonal *	31,8 cm (12.5")	Spill-resistant keyboard	✓
Display resolution *	1366 x 768 pixels	Keyboard layout	AZERTY
LED backlight	✓	Software	
Native aspect ratio	16:9	Operating system architecture	64-bit
Dual-screen	✗	Operating system software *	Windows 7 Professional
Processor		Processor special features	
Processor manufacturer *	Intel	Intel Wireless Display (WiDi) Technology	✓
Processor type *	Intel® Core™ i5	Intel My WiFi Technology	✓
Processor generation	3rd gen Intel® Core™ i5	Intel Anti-Theft Technology	✓
Processor *	i5-3320M	Intel Identity Protection Technology	✓
Processor number of cores	2	Intel Hyper-Threading Technology	✓
Processor threads	4	Intel Turbo Boost Technology	2.0
Processor boost frequency	3,3 GHz	Enhanced Intel SpeedStep Technology	✓
Processor frequency *	2,6 GHz	Intel Clear Video HD Technology	✓
System bus data transfer rate	5 GT/s	Intel Clear Video Technology	✗
Processor cache	3 MB	Intel® InTru™ 3D Technology	✓
Processor cache type	Smart Cache	Intel® Insider™	✓
Processor socket	BGA 1023	Intel® Quick Sync Video Technology	✓
Processor lithography	22 nm	Intel Flex Memory Access	✓
Processor operating modes	64-bit	Intel Smart Cache	✓
Processor series	Intel Core i5-3300 Mobile series	Intel AES New Instructions	✓
Processor codename	Ivy Bridge	Intel Trusted Execution Technology	✓
Bus type	DMI	Intel Enhanced Halt State	✓
FSB Parity	✗	Intel VT-x with Extended Page Tables (EPT)	✓
Stepping	L1		
Thermal Design Power (TDP)	35 W		
Tjunction	105 °C		

Processor		Processor special features	
Maximum number of PCI Express lanes	16	Intel Demand Based Switching	✗
PCI Express slots version	3.0	Intel® Secure Key	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel Clear Video Technology for MID	✗
CPU multiplier (bus/core ratio)	26	Intel 64	✓
ECC supported by processor	✗	Execute Disable Bit	✓
Memory		Idle States	✓
Internal memory *	4 GB	Thermal Monitoring Technologies	✓
Internal memory type	DDR3-SDRAM	Processor package size	37.5 x 37.5 (rPGA988B); 31.0 x 24.0 (BGA1023)
Memory speed	1600 MHz	Supported instruction sets	AVX
Memory slots	2x SO-DIMM	Processor code	SR0MY
Maximum memory *	16 GB	CPU configuration (max)	1
Storage		Embedded options available	✗
Total storage capacity *	180 GB	Graphics & IMC lithography	22 nm
Storage media *	SSD	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Number of SSDs installed	1	Intel Identity Protection Technology version	1,00
Solid-state drive capacity	180 GB	Intel Secure Key Technology version	1,00
Solid-state drive interfaces	SATA	Intel Virtualization Technology (VT-x)	✓
Optical drives *	✗	Intel Dual Display Capable Technology	✓
Card reader integrated	✓	Intel FDI Technology	✓
Compatible memory cards	MMC, SD, SDHC, SDXC	Intel Rapid Storage Technology	✗
Graphics		Intel Fast Memory Access	✓
Discrete graphics card model *	Not available	Processor ARK ID	64896
On-board graphics card *	✓	Conflict-Free processor	✓
Discrete graphics card *	✗	Integrated 4G WiMAX	✓
On-board graphics card family	Intel® HD Graphics	Battery	
On-board graphics card model *	Intel® HD Graphics 4000	Battery technology	Lithium-Ion (Li-Ion)
On-board graphics card base frequency	650 MHz	Number of battery cells	6
On-board graphics card dynamic frequency (max)	1200 MHz	Battery life (max)	9,9 h
On-board graphics card ID	0x166	Power	
Audio		AC adapter power	65 W
Audio system	High Definition Audio	AC adapter frequency	50 - 60 Hz
Number of built-in speakers	2	DC-in jack	✓
Speaker power	1 W	Security	
Built-in microphone	✓	Cable lock slot	✓
Network		Fingerprint reader	✓
Mobile network generation	3G	Password protection type	BIOS, HDD, Supervisor
Wi-Fi	✓	Certificates	
Wi-Fi standards	802.11a, 802.11g, Wi-Fi 4 (802.11n)	Compliance certificates	RoHS
Mobile network connection *	✓	Sustainability	
Ethernet LAN connection	✓	Sustainability certificates	EPEAT Gold, ENERGY STAR
Ethernet LAN data rates	10,100,1000 Mbit/s	Weight & dimensions	
Bluetooth	✓	Width	305 mm
Bluetooth version	4.0	Depth	206,5 mm
Ports & interfaces		Height (front)	1,9 cm
USB 2.0 ports quantity *	1	Height (rear)	2,66 cm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Weight *	1,67 kg
Ethernet LAN (RJ-45) ports	1	Packaging content	
DVI port	✗	AC adapter included *	✓
VGA (D-Sub) ports quantity	1	Other features	
S/PDIF out port	✗	LightScribe	✗
Microphone in	✗		
Combo headphone/mic port	✓		

Ports & interfaces		Other features	
ExpressCard slot	✓	Infrared data port	✗
CardBus PCMCIA slot type	✗	Graphics card family	Intel
SmartCard slot	✗		
Performance			
Chipset	Intel® QM77 Express		

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