



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

Brand : Lenovo

Product family: ThinkPad

Product code: 232036S

Product name : X230

Intel Core i5-3320M (2.60 GHz), 4GB DDR3 RAM, 500GB SATA HDD, 12.5" HD (1280x800), Intel HD Graphics 4000, Gigabit Ethernet, WLAN 802.11a/g/n, Bluetooth, Windows 7 Professional 64-bit

Lenovo ThinkPad X230 Intel® Core™ i5 i5-3320M 31.8 cm (12.5") 4 GB DDR3-SDRAM 500 GB HDD Windows 7 Professional Black:

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.

DO LIST

- New precision keyboard with improved ergonomic design and optional backlight.
- Dual array microphones, keystroke noise suppression and 720p HD webcam for crystal clear video conferencing.
- Dolby® speakers with Advanced Audio® v2 for full impact surround sound.
- Active Protection System™ – for hard drive.
- 4G LTE support for ultra fast wireless connectivity.
- ThinkVantage software for manageability and security.
- Two USB 3.0 ports.



Design		Keyboard	
Product color *	Black	Windows keys	✓
Form factor *	Clamshell	Software	
Display		Operating system architecture	64-bit
Display diagonal *	31.8 cm (12.5")	Operating system installed *	Windows 7 Professional
Display resolution *	1280 x 800 pixels	Processor special features	
Touchscreen *	✗	Intel® Wireless Display (Intel® WiDi)	✓
LED backlight	✓	Intel® My WiFi Technology (Intel® MWT)	✓
Native aspect ratio	16:10	Intel® Anti-Theft Technology (Intel® AT)	✓
Processor		Intel® Identity Protection Technology (Intel® IPT)	✓
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor family *	Intel® Core™ i5	Intel® Turbo Boost Technology	2.0
Processor generation	3rd gen Intel® Core™ i5	Enhanced Intel SpeedStep Technology	✓
Processor model *	i5-3320M	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor cores	2	Intel Clear Video Technology	✗
Processor threads	4	Intel® InTru™ 3D Technology	✓
Processor boost frequency	3.3 GHz	Intel® Insider™	✓
Processor frequency *	2.6 GHz	Intel® Quick Sync Video Technology	✓
System bus rate	5 GT/s	Intel Flex Memory Access	✓
Processor cache	3 MB	Intel® Smart Cache	✓
Processor cache type	Smart Cache	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor socket	BGA 1023	Intel Trusted Execution Technology	✓
Processor lithography	22 nm	Intel Enhanced Halt State	✓
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		

Processor		Processor special features	
Tjunction	105 °C	Intel VT-x with Extended Page Tables (EPT)	✓
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 Mobile Internet Devices (Intel CVT 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 clock speed	1333 MHz	Supported instruction sets	AVX
Memory slots	2x SO-DIMM	Processor code	SR0MY
Maximum internal memory *	16 GB	CPU configuration (max)	1
Storage		Embedded options available	✗
Total storage capacity *	500 GB	Graphics & IMC lithography	22 nm
Storage media *	HDD	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Number of HDDs installed	1	Intel Identity Protection Technology version	1.00
HDD capacity	500 GB	Intel Secure Key Technology version	1.00
HDD interface	SATA	Intel Virtualization Technology (VT-x)	✓
HDD speed	7200 RPM	Intel Dual Display Capable Technology	✓
Optical drive type *	✗	Intel FDI Technology	✓
Card reader integrated	✓	Intel Rapid Storage Technology	✗
Compatible memory cards	MMC, SD, SDHC, SDXC	Intel Fast Memory Access	✓
Graphics		Processor ARK ID	64896
On-board graphics card *	✓	Conflict-Free processor	✓
On-board graphics card family	Intel® HD Graphics	Integrated 4G WiMAX	✓
On-board graphics card model *	Intel® HD Graphics 4000	Battery	
On-board graphics card base frequency	650 MHz	Battery technology	Lithium-Ion (Li-Ion)
On-board graphics card dynamic frequency (max)	1200 MHz	Number of battery cells	6
On-board graphics card ID	0x166	Battery life (max)	9.9 h
Audio		Power	
Audio system	Dolby Advanced	DC-in jack	✓
Built-in speaker(s)	✓	Security	
Number of built-in speakers	2	Cable lock slot	✓
Built-in microphone	✓	Cable lock slot type	Kensington
Network		Certificates	
Wi-Fi	✓	Compliance certificates	RoHS
Networking features	Gigabit Ethernet	Sustainability	
Wi-Fi standards	802.11a, 802.11g, Wi-Fi 4 (802.11n)	Sustainability certificates	EPEAT Gold, ENERGY STAR
Ethernet LAN	✓	Weight & dimensions	
Ethernet LAN data rates	10,100,1000 Mbit/s	Width	305 mm
Bluetooth	✓	Depth	206.5 mm
Ports & interfaces		Height (front)	1.9 cm
USB 2.0 ports quantity *	1	Height (rear)	3.46 cm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Weight *	1.34 kg
Ethernet LAN (RJ-45) ports	1	Packaging content	
Mini DisplayPorts quantity	1	AC adapter included *	✓
DVI port	✗	Other features	
VGA (D-Sub) ports quantity	1	LightScribe	✗
Headphone outputs	1		
S/PDIF out port	✗		
Microphone in	✓		
CardBus PCMCIA slot type	✗		

Ports & interfaces		Other features	
SmartCard slot	✗	Infrared data port	✗
Keyboard		Graphics card family	Intel
Pointing device	ThinkPad UltraNav		
Numeric keypad *	✗		
Keyboard backlit	✓		

Catalog Object Cloud



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