



Lenovo ThinkPad X230i Intel® Core™ i3 i3-3110M Laptop 31,8 cm (12.5") 4 GB DDR3-SDRAM 320 GB HDD Windows 7 Professional Black

Brand : Lenovo

Product family: ThinkPad

Article code: NZC7PGE

Product name : X230i



Lenovo ThinkPad X230i. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i3, Processor model: i3-3110M, Processor frequency: 2,4 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: 320 GB, Storage media: HDD. On-board graphics card model: Intel® HD Graphics 4000. Operating system installed: Windows 7 Professional. Product color: Black. Weight: 1,34 kg

Design		Performance	
Product type *	Laptop	Motherboard chipset	Intel HM77 Express
Product color *	Black	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	Full-size keyboard	✓
Touchscreen *	✗	Windows keys	✓
LED backlight	✓	Software	
Native aspect ratio	16:9	Operating system architecture	64-bit
Processor		Recovery operating system	Windows 8 Pro
Processor manufacturer *	Intel	Operating system installed *	Windows 7 Professional
Processor family *	Intel® Core™ i3	Processor special features	
Processor generation	3rd gen Intel® Core™ i3	Intel® Wireless Display (Intel® WiDi)	✓
Processor model *	i3-3110M	Intel® My WiFi Technology (Intel® MWT)	✓
Processor cores	2	Intel® Anti-Theft Technology (Intel® AT)	✓
Processor threads	4	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor frequency *	2,4 GHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
System bus rate	5 GT/s	Intel® Turbo Boost Technology	✗
Processor cache	3 MB	Enhanced Intel SpeedStep Technology	✓
Processor cache type	Smart Cache	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor socket	BGA 1023	Intel Clear Video Technology	✗
Processor lithography	22 nm	Intel® InTru™ 3D Technology	✓
Processor operating modes	64-bit	Intel® Insider™	✓
Processor series	Intel Core i3-3100 Mobile Series	Intel® Quick Sync Video Technology	✓
Processor codename	Ivy Bridge	Intel Flex Memory Access	✓
Bus type	DMI	Intel® Smart Cache	✓
FSB Parity	✗	Intel® AES New Instructions (Intel® AES-NI)	✗
Stepping	L1		
Thermal Design Power (TDP)	35 W		
Tjunction	90 °C		
Maximum number of PCI Express lanes	16		
PCI Express slots version	2.0		
PCI Express configurations	1x16, 2x8, 1x8+2x4		
Number of processors supported	1		

Processor		Processor special features	
CPU multiplier (bus/core ratio)	24	Intel Trusted Execution Technology	✗
ECC supported by processor	✗	Intel Enhanced Halt State	✓
Memory		Intel VT-x with Extended Page Tables (EPT)	✓
Internal memory *	4 GB	Intel Demand Based Switching	✗
Internal memory type	DDR3-SDRAM	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Memory clock speed	1600 MHz	Intel 64	✓
Memory slots	2x SO-DIMM	Execute Disable Bit	✓
Maximum internal memory *	16 GB	Idle States	✓
Storage		Thermal Monitoring Technologies	✓
Total storage capacity *	320 GB	Processor package size	37.5 x 37.5 (rPGA988B); 31 x 24 (BGA1023)
Storage media *	HDD	Supported instruction sets	AVX
Number of HDDs installed	1	Processor code	SR0N2
HDD capacity	320 GB	CPU configuration (max)	1
HDD interface	SATA	Embedded options available	✗
Optical drive type *	✗	Graphics & IMC lithography	22 nm
Card reader integrated	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Compatible memory cards	MMC, SD, SDHC, SDXC	Intel Identity Protection Technology version	1,00
Graphics		Intel Virtualization Technology (VT-x)	✓
On-board graphics card *	✓	Intel Dual Display Capable Technology	✓
On-board graphics card family	Intel® HD Graphics	Intel FDI Technology	✓
On-board graphics card model *	Intel® HD Graphics 4000	Intel Rapid Storage Technology	✗
On-board graphics card base frequency	650 MHz	Intel Fast Memory Access	✓
On-board graphics card dynamic frequency (max)	1000 MHz	Processor ARK ID	65700
On-board graphics card ID	0x166	Conflict-Free processor	✓
Audio		Integrated 4G WiMAX	✓
Audio system	Dolby Advanced v2	Power	
Built-in speaker(s)	✓	DC-in jack	✓
Number of built-in speakers	2	Security	
Built-in microphone	✓	Cable lock slot	✓
Camera		Cable lock slot type	Kensington
Front camera	✓	Certificates	
Network		Compliance certificates	RoHS
Wi-Fi	✓	Sustainability	
Wi-Fi standards	802.11b, 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
Cabling technology	10/100/1000Base-T(X)	Height (front)	1,9 cm
Built-in Wi-Fi switch	✓	Height (rear)	2,66 cm
Ports & interfaces		Weight *	1,34 kg
USB 2.0 ports quantity *	1	Packaging content	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	AC adapter included *	✓
Ethernet LAN (RJ-45) ports	1	Manual	✓
Mini DisplayPorts quantity	1	Quick start guide	✓
DVI port	✗	Other features	
VGA (D-Sub) ports quantity	1	LightScribe	✗
S/PDIF out port	✗		
Microphone in	✗		
Combo headphone/mic port	✓		
ExpressCard slot	✓		
CardBus PCMCIA slot type	✗		
SmartCard slot	✗		

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