



Lenovo ThinkPad X220 Intel® Core™ i3 i3-2350M 31,8 cm (12.5") 4 GB DDR3-SDRAM 320 GB HDD Wi-Fi 4 (802.11n) Windows 7 Professional Black



Brand : Lenovo

Product family: ThinkPad

Article code: NYD66IX

Product name : X220

Lenovo ThinkPad X220. Processor family: Intel® Core™ i3, Processor model: i3-2350M, Processor frequency: 2,3 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 3000. Operating system installed: Windows 7 Professional. Product color: Black. Weight: 1,3 kg

Design		Software	
Product color *	Black	Operating system architecture	64-bit
Display		Operating system installed *	Windows 7 Professional
Display diagonal *	31,8 cm (12.5")	Processor special features	
Display resolution *	1366 x 768 pixels	Intel® Wireless Display (Intel® WiDi)	✓
LED backlight	✓	Intel® My WiFi Technology (Intel® MWT)	✓
Native aspect ratio	16:9	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™ i3	Intel® Turbo Boost Technology	✗
Processor generation	2nd gen Intel® Core™ i3	Enhanced Intel SpeedStep Technology	✓
Processor model *	i3-2350M	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor cores	2	Intel Clear Video Technology	✗
Processor threads	4	Intel® InTru™ 3D Technology	✓
Processor frequency *	2,3 GHz	Intel® Insider™	✓
System bus rate	5 GT/s	Intel® Quick Sync Video Technology	✓
Processor cache	3 MB	Intel Flex Memory Access	✓
Processor cache type	Smart Cache	Intel® Smart Cache	✓
Processor socket	Socket 988	Intel® AES New Instructions (Intel® AES-NI)	✗
Processor lithography	32 nm	Intel Trusted Execution Technology	✗
Processor operating modes	64-bit	Intel Enhanced Halt State	✓
Processor series	Intel Core i3-2300 Mobile Series	Intel VT-x with Extended Page Tables (EPT)	✓
Processor codename	Sandy Bridge	Intel Demand Based Switching	✗
Bus type	DMI		
FSB Parity	✗		
Stepping	J1		
Thermal Design Power (TDP)	35 W		
Tjunction	85 °C		
Maximum number of PCI Express lanes	16		
PCI Express slots version	2.0		

Processor		Processor special features	
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
CPU multiplier (bus/core ratio)	23	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 x 24 (BGA1023)
Memory clock speed	1333 MHz	Supported instruction sets	AVX
Memory slots	2x SO-DIMM	Processor code	SR0DN
Maximum internal memory *	8 GB	CPU configuration (max)	1
Storage		Embedded options available	✗
Total storage capacity *	320 GB	Graphics & IMC lithography	32 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	320 GB	Intel Virtualization Technology (VT-x)	✓
HDD speed	5400 RPM	Intel Dual Display Capable Technology	✓
HDD size	2.5"	Intel FDI Technology	✓
Optical drive type *	✗	Intel Rapid Storage Technology	✗
Card reader integrated	✓	Intel Fast Memory Access	✓
Graphics		Processor ARK ID	53438
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 3000	Battery	
On-board graphics card base frequency	650 MHz	Battery technology	Lithium-Ion (Li-Ion)
On-board graphics card dynamic frequency (max)	1150 MHz	Power	
On-board graphics card ID	0x116	DC-in jack	✓
Network		Security	
Wi-Fi	✓	Cable lock slot	✗
Top Wi-Fi standard *	Wi-Fi 4 (802.11n)	Weight & dimensions	
Wi-Fi standards	802.11a, 802.11g, Wi-Fi 4 (802.11n)	Width	300,5 mm
Ethernet LAN	✓	Depth	200,6 mm
Bluetooth	✗	Height	30,5 mm
Cabling technology	10/100/1000Base-T(X)	Weight *	1,3 kg
Ports & interfaces		Packaging content	
USB 2.0 ports quantity *	2	AC adapter included *	✓
Ethernet LAN (RJ-45) ports	1	Other features	
DisplayPorts quantity	1	LightScribe	✗
DVI port	✗	Infrared data port	✗
VGA (D-Sub) ports quantity	1	Graphics card family	Intel
Headphone outputs	1	Display	LED
Microphone in	✓		
Docking connector	✗		
ExpressCard slot	✓		
CardBus PCMCIA slot type	✗		
TV-out	✗		

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