



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

Product code: NYD66IX

Product name : X220

Intel Core i3-2350M (2.3 GHz), 4GB DDR3 RAM, 320GB SATA HDD (5400RPM), 12.5" HD 1366x768px, Intel HD Graphics 3000, Gigabit Ethernet, WLAN 802.11 b/g/n, 1300g, Windows 7 Professional, Black Lenovo ThinkPad X220. Processor type: Intel® Core™ i3, Processor: 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 software: Windows 7 Professional. Product colour: Black. Weight: 1,3 kg

Design		Ports & interfaces	
Product colour *	Black	TV-out	×
Display		Software	
Display diagonal *	31,8 cm (12.5")	Operating system architecture	64-bit
Display resolution *	1366 x 768 pixels	Operating system software *	Windows 7 Professional
LED backlight	✓	Processor special features	
Native aspect ratio	16:9	Intel Wireless Display (WiDi) Technology	✓
Processor		Intel My WiFi Technology	✓
Processor manufacturer *	Intel	Intel Anti-Theft Technology	✓
Processor type *	Intel® Core™ i3	Intel Identity Protection Technology	✓
Processor generation	2nd gen Intel® Core™ i3	Intel Hyper-Threading Technology	✓
Processor *	i3-2350M	Intel Turbo Boost Technology	×
Processor number of cores	2	Enhanced Intel SpeedStep Technology	✓
Processor threads	4	Intel Clear Video HD Technology	✓
Processor frequency *	2,3 GHz	Intel Clear Video Technology	×
System bus data transfer rate	5 GT/s	Intel® InTru™ 3D Technology	✓
Processor cache	3 MB	Intel® Insider™	✓
Processor cache type	Smart Cache	Intel® Quick Sync Video Technology	✓
Processor socket	Socket 988	Intel Flex Memory Access	✓
Processor lithography	32 nm	Intel Smart Cache	✓
Processor operating modes	64-bit	Intel AES New Instructions	×
Processor series	Intel Core i3-2300 Mobile Series	Intel Trusted Execution Technology	×
Processor codename	Sandy Bridge	Intel Enhanced Halt State	✓
Bus type	DMI	Intel VT-x with Extended Page Tables (EPT)	✓
FSB Parity	×	Intel Demand Based Switching	×
Stepping	J1	Intel Clear Video Technology for MID	×
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 64	✓
CPU multiplier (bus/core ratio)	23	Execute Disable Bit	✓
ECC supported by processor	✗	Idle States	✓
Memory		Thermal Monitoring Technologies	✓
Internal memory *	4 GB	Processor package size	37.5 x 37.5 (rPGA988B); 31 x 24 (BGA1023)
Internal memory type	DDR3-SDRAM	Supported instruction sets	AVX
Memory speed	1333 MHz	Processor code	SR0DN
Memory slots	2x SO-DIMM	CPU configuration (max)	1
Maximum memory *	8 GB	Embedded options available	✗
Storage		Graphics & IMC lithography	32 nm
Total storage capacity *	320 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Storage media *	HDD	Intel Identity Protection Technology version	1,00
Number of HDDs installed	1	Intel Virtualization Technology (VT-x)	✓
Hard drive capacity	320 GB	Intel Dual Display Capable Technology	✓
Hard drive rotational speed	5400 RPM	Intel FDI Technology	✓
Hard drive size	2.5"	Intel Rapid Storage Technology	✗
Optical drives *	✗	Intel Fast Memory Access	✓
Card reader integrated	✓	Processor ARK ID	53438
Graphics		Conflict-Free processor	✗
On-board graphics card *	✓	Integrated 4G WiMAX	✓
On-board graphics card family	Intel® HD Graphics	Battery	
On-board graphics card model *	Intel® HD Graphics 3000	Battery technology	Lithium-Ion (Li-Ion)
On-board graphics card base frequency	650 MHz	Power	
On-board graphics card dynamic frequency (max)	1150 MHz	DC-in jack	✓
On-board graphics card ID	0x116	Security	
Network		Cable lock slot	✗
Wi-Fi	✓	Weight & dimensions	
Top Wi-Fi standard *	Wi-Fi 4 (802.11n)	Width	300,5 mm
Wi-Fi standards	802.11a, 802.11g, Wi-Fi 4 (802.11n)	Depth	200,6 mm
Ethernet LAN connection	✓	Height	30,5 mm
Bluetooth	✗	Weight *	1,3 kg
Cabling technology	10/100/1000Base-T(X)	Packaging content	
Ports & interfaces		AC adapter included *	✓
USB 2.0 ports quantity *	2	Other features	
Ethernet LAN (RJ-45) ports	1	LightScribe	✗
DisplayPorts quantity	1	Infrared data port	✗
DVI port	✗	Graphics card family	Intel
VGA (D-Sub) ports quantity	1	Display	LED
Headphone outputs	1		
Microphone in	✓		
Docking connector	✗		
ExpressCard slot	✓		
CardBus PCMCIA slot type	✗		

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