



## Lenovo ThinkPad X201 Intel® Core™ i5 i5-580M Laptop 30,7 cm (12.1") 4 GB DDR3-SDRAM 320 GB HDD Windows 7 Professional Μαύρος (Μαύρο)

**Brand :** Lenovo

**Product family:** ThinkPad

**Article code:** NUVQ7MD

**Product name :** X201

Lenovo ThinkPad X201. Τύπος προϊόντος: Laptop, Τύπος μορφής: Clamshell. Τύπος επεξεργαστή: Intel® Core™ i5, Προδιαγραφές επεξεργαστή: i5-580M, Συχνότητα επεξεργαστή: 2,66 GHz. Μέγεθος οθόνης: 30,7 cm (12.1"), Βήμα εικονοστοιχείων: 1280 x 800 εικονοστοιχεία. Εσωτερική μνήμη: 4 GB, Τύπος μνήμης: DDR3-SDRAM. Εσωτερική μονάδα σκληρού δίσκου: 320 GB, Μέσα αποθήκευσης: HDD. Μοντέλο ενσωματωμένου προσαρμογέα γραφικών: Intel® HD Graphics. Εγκατεστημένο λειτουργικό σύστημα: Windows 7 Professional. Χρώμα προϊόντος: Μαύρος (Μαύρο). Βάρος: 1,1 kg



Design		Keyboard	
Product type *	Laptop	Pointing device	ThinkPad UltraNav
Product colour *	Black	Numeric keypad *	✗
Form factor *	Clamshell	Keyboard backlit	✗
Housing material	Plastic	Spill-resistant keyboard	✓
Display		Windows keys	✓
Display diagonal *	30.7 cm (12.1")	Software	
Display resolution *	1280 x 800 pixels	Operating system architecture	64-bit
Touchscreen *	✗	Drivers included	✓
HD type	Not supported	Operating system installed *	Windows 7 Professional
LED backlight	✓	Processor special features	
Native aspect ratio	16:10	Intel® Wireless Display (Intel® WiDi)	✗
Display brightness	250 cd/m <sup>2</sup>	Intel® My WiFi Technology (Intel® MWT)	✗
Dual-screen	✗	Intel® Anti-Theft Technology (Intel® AT)	✗
Contrast ratio (typical)	300:1	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor		Intel® Turbo Boost Technology	1.0
Processor manufacturer *	Intel	Intel® Small Business Advantage (Intel® SBA)	✗
Processor family *	Intel® Core™ i5	Enhanced Intel SpeedStep Technology	✓
Processor generation	Intel® Core™ i5	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor model *	i5-580M	Intel Clear Video Technology	✓
Processor cores	2	Intel® InTru™ 3D Technology	✗
Processor threads	4	Intel® Insider™	✗
Processor boost frequency	3.33 GHz	Intel® Quick Sync Video Technology	✗
Processor frequency *	2.66 GHz	Intel Flex Memory Access	✓
System bus rate	2.5 GT/s		
Processor cache	3 MB		
Processor cache type	Smart Cache		
Processor socket	BGA 1288		
Processor lithography	32 nm		
Processor operating modes	64-bit		
Processor series	Intel Core i5-500 Mobile Series		

Processor		Processor special features	
Processor codename	Arrandale	Intel® AES New Instructions (Intel® AES-NI)	✓
Bus type	DMI	Intel Trusted Execution Technology	✓
FSB Parity	✗	Intel Enhanced Halt State	✓
Stepping	K0	Intel VT-x with Extended Page Tables (EPT)	✓
Thermal Design Power (TDP)	35 W	Intel Demand Based Switching	✗
Tjunction	105 °C	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Maximum number of PCI Express lanes	16	Intel 64	✓
PCI Express slots version	2.0	Execute Disable Bit	✓
PCI Express configurations	1x16	Idle States	✓
Number of Processing Die Transistors	382 M	Thermal Monitoring Technologies	✓
Processing Die size	81 mm <sup>2</sup>	Processor package size	rPGA 37.5x 37.5, BGA 34x28
CPU multiplier (bus/core ratio)	20	Supported instruction sets	SSE4.1/4.2
ECC supported by processor	✗	Processor code	SLC29
Memory		Physical Address Extension (PAE)	36 bit
Internal memory *	4 GB	CPU configuration (max)	1
Internal memory type	DDR3-SDRAM	Embedded options available	✗
Memory clock speed	1066 MHz	Graphics & IMC lithography	45 nm
Memory slots	2x SO-DIMM	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Maximum internal memory *	8 GB	Intel Virtualization Technology (VT-x)	✓
Storage		Intel Dual Display Capable Technology	✓
Total storage capacity *	320 GB	Intel FDI Technology	✓
Storage media *	HDD	Intel Rapid Storage Technology	✗
Number of HDDs installed	1	Intel Fast Memory Access	✓
HDD capacity	320 GB	Processor ARK ID	49652
HDD interface	SATA	Conflict-Free processor	✗
HDD speed	7200 RPM	Battery	
Optical drive type *	✗	Battery technology	Lithium-Ion (Li-Ion)
Card reader integrated	✓	Number of battery cells	6
Compatible memory cards	Memory Stick (MS), MMC, MS PRO, SD, SDHC	Battery life (max)	6.6 h
Graphics		Power	
Discrete graphics card model *	Not available	AC adapter power	65 W
On-board graphics card *	✓	AC adapter frequency	50 - 60 Hz
Discrete graphics card *	✗	AC adapter input voltage	100 - 240 V
On-board graphics card family	Intel® HD Graphics	DC-in jack	✓
On-board graphics card model *	Intel® HD Graphics	Security	
On-board graphics card base frequency	500 MHz	Cable lock slot	✓
On-board graphics card dynamic frequency (max)	766 MHz	Cable lock slot type	IBM
Audio		Fingerprint reader	✓
Audio system	High Definition Audio	Trusted Platform Module (TPM)	✓
Number of built-in speakers	2	Password protection type	BIOS
Speaker power	2 W	Operational conditions	
Built-in subwoofer	✗	Operating temperature (T-T)	5 - 35 °C
Network		Storage temperature (T-T)	5 - 43 °C
Wi-Fi	✓	Operating relative humidity (H-H)	5 - 85%
Wi-Fi standards	802.11a, 802.11g, Wi-Fi 4 (802.11n)	Storage relative humidity (H-H)	5 - 95%
Ethernet LAN	✓	Operating altitude	0 - 2438 m
Ethernet LAN data rates	10,100,1000 Mbit/s	Certificates	
Bluetooth	✓	Compliance certificates	RoHS
Bluetooth version	2.1+EDR	Sustainability	
Cabling technology	10/100/1000Base-T(X)	Sustainability certificates	EPEAT Gold, ENERGY STAR
4G WiMAX	✗		
Networking standards	IEEE 802.11a, IEEE 802.11g, IEEE 802.11n		

Network		Weight & dimensions	
4G LTE	✗	Width	295 mm
Ports & interfaces		Depth	210 mm
USB 2.0 ports quantity *	3	Height (front)	2.07 cm
Ethernet LAN (RJ-45) ports	1	Height (rear)	2.87 cm
DVI port	✗	Weight *	1.1 kg
Mini DisplayPort/Thunderbolt combo port	✗	Packaging content	
VGA (D-Sub) ports quantity	1	AC adapter included *	✓
LAN/VGA combo port	✗	Remote control included	✗
Headphone outputs	1	Manual	✓
S/PDIF out port	✗	Quick start guide	✓
Microphone in	✓	Other features	
ExpressCard slot	✓	LightScribe	✗
CardBus PCMCIA slot type	✗	TV tuner integrated	✗
Modem (RJ-11) ports	1	64-bit computing	✓
Headphone connectivity	3.5 mm		
Microphone connectivity	3.5 mm		
Performance			
Motherboard chipset	Intel® QM57 Express		
Orientation sensor	✗		
Accelerometer	✗		
Proximity sensor	✗		

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