



## Lenovo ThinkPad X250 Intel® Core™ i7 i7-5600U Laptop 31.8 cm (12.5") Full HD 8 GB DDR3L-SDRAM 512 GB SSD Wi-Fi 5 (802.11ac) Windows 7 Professional Black

**Brand :** Lenovo

**Product family:** ThinkPad

**Product code:** 20CM001RGE

**Product name :** X250

ThinkPad X250, 31.75 cm (12.5 ") , 1920 x 1080, IPS, i7-5600U, 8GB DDR3L 1600MHz, 512GB SSD, HD Graphics 5500, Gigabit Ethernet, 802.11a/b/g/n/ac, Bluetooth 4.0, Sierra EM7345, Smart Card Reader, USB 3.0, Mini DisplayPort, SD/SDHC/SDXC/MMC, 23Wh + 23Wh, Windows 7 Professional 64-bit (Windows 8.1)

Lenovo ThinkPad X250. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor: i7-5600U, Processor frequency: 2.6 GHz. Display diagonal: 31.8 cm (12.5"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 8 GB, Internal memory type: DDR3L-SDRAM. Total storage capacity: 512 GB, Storage media: SSD. Mobile network generation: 4G. Operating system installed: Windows 7 Professional. Product colour: Black



Design		Keyboard	
Product type *	Laptop	Pointing device	ThinkPad UltraNav
Product colour *	Black	Numeric keypad *	✗
Form factor *	Clamshell	Keyboard backlight	✓
Housing material	Glass fibre, Plastic	Spill-resistant keyboard	✓
Display		Windows keys	✓
Display diagonal *	31.8 cm (12.5")	Software	
Display resolution *	1920 x 1080 pixels	Operating system architecture	64-bit
Touchscreen *	✗	Operating system installed *	Windows 7 Professional
HD type	Full HD	Processor special features	
Panel type	IPS	Intel® Wireless Display (Intel® WiDi)	✓
LED backlight	✓	Intel® My WiFi Technology (Intel® MWT)	✗
Native aspect ratio	16:9	Intel® Anti-Theft Technology (Intel® AT)	✗
Display brightness	400 cd/m²	Intel® Smart Response Technology	✓
Contrast ratio (typical)	700:1	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor		Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor manufacturer *	Intel	Intel® Turbo Boost Technology	2.0
Processor family *	Intel® Core™ i7	Intel® Small Business Advantage (Intel® SBA)	✓
Processor generation	5th gen Intel® Core™ i7	Enhanced Intel SpeedStep Technology	✓
Processor model *	i7-5600U	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	3.2 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	4 MB		
Processor cache type	L3		
Processor socket	BGA 1168		
Processor lithography	14 nm		
Processor operating modes	32-bit, 64-bit		
Processor series	Intel Core i7-5600 Mobile Series		
Processor codename	Broadwell		

Processor		Processor special features	
Bus type	DMI2	Intel® Smart Cache	✓
FSB Parity	✗	Intel® AES New Instructions (Intel® AES-NI)	✓
Stepping	F0	Intel Trusted Execution Technology	✓
Thermal Design Power (TDP)	15 W	Intel Enhanced Halt State	✓
Configurable TDP-down	7.5 W	Intel VT-x with Extended Page Tables (EPT)	✓
Configurable TDP-down frequency	0.6 GHz	Intel Demand Based Switching	✗
Tjunction	105 °C	Intel® Secure Key	✓
Maximum number of PCI Express lanes	12	Intel TSX-NI	✓
PCI Express slots version	2.0	Intel Stable Image Platform Program (SIPP)	✓
PCI Express configurations	4x1, 2x4	Intel® OS Guard	✓
ECC supported by processor	✗	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Memory		Intel 64	✓
Internal memory *	8 GB	Execute Disable Bit	✓
Internal memory type	DDR3L-SDRAM	Idle States	✓
Memory clock speed	1600 MHz	Thermal Monitoring Technologies	✓
Memory form factor	SO-DIMM	Processor package size	40 x 24 x 1.3 mm
Memory layout (slots x size)	1 x 8 GB	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Memory slots	1x SO-DIMM	Processor code	SR23V
Maximum internal memory *	8 GB	CPU configuration (max)	1
Storage		Embedded options available	✗
Total storage capacity *	512 GB	Graphics & IMC lithography	14 nm
Storage media *	SSD	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Number of SSDs installed	1	Intel Identity Protection Technology version	1.00
SSD capacity	512 GB	Intel Smart Response Technology version	1.00
SSD interface	SATA III	Intel Stable Image Platform Program (SIPP) version	1.00
Optical drive type *	✗	Intel Secure Key Technology version	1.00
Card reader integrated	✓	Intel Small Business Advantage (SBA) version	1.00
Compatible memory cards	MMC, SD, SDHC, SDXC	Intel TSX-NI version	1.00
Graphics		Intel Virtualization Technology (VT-x)	✓
Discrete graphics card model *	Not available	Intel Dual Display Capable Technology	✗
On-board graphics card *	✓	Intel FDI Technology	✓
Discrete graphics card *	✗	Intel Rapid Storage Technology	✗
On-board graphics card family	Intel® HD Graphics	Intel Fast Memory Access	✓
On-board graphics card model *	Intel® HD Graphics 5500	Processor ARK ID	85215
On-board graphics card base frequency	300 MHz	Conflict-Free processor	✓
On-board graphics card dynamic frequency (max)	950 MHz	Battery	
Maximum on-board graphics card memory	16 GB	Battery technology	Lithium-Ion (Li-Ion)
On-board graphics card DirectX version	11.2	Number of battery cells	3+3
On-board graphics card ID	0x1616	Battery capacity *	23 Wh
Maximum resolution	3840 x 2160 pixels	Battery life (max)	10.7 h
Graphics card Open GL support	✓	Power	
Audio		AC adapter power	45 W
Audio system	Dolby Advanced Audio	DC-in jack	✓
Number of built-in speakers	2	Security	
Speaker power	1.5 W	Cable lock slot	✓
Built-in microphone	✓	Fingerprint reader	✓
Camera		Trusted Platform Module (TPM)	✓
Front camera	✓		
Network			
Mobile network generation	4G		
2G standards	Edge, GPRS, GSM		
3G standards	HSPA		

Network		Certificates	
4G standard	LTE	Wi-Fi certified	✓
Wi-Fi	✓	Compliance certificates	RoHS
Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)	Certification	GREENGUARD
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)	Sustainability	
Mobile network connection *	✓	Sustainability certificates	EPEAT Gold, ENERGY STAR
Ethernet LAN	✓	Weight & dimensions	
Ethernet LAN data rates	10,100,1000 Mbit/s	Width	305.5 mm
Bluetooth	✓	Depth	208.5 mm
Bluetooth version	4.0	Height	20.3 mm
WWAN	Installed	Weight *	1.42 kg
Ports & interfaces		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	Power cord included	✓
Mini DisplayPorts quantity	1	Other features	
DVI port	✗	LightScribe	✗
VGA (D-Sub) ports quantity	1	3D	✗
S/PDIF out port	✗	Maximum internal memory (64-bit)	8 GB
Combo headphone/mic port	✓	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Docking connector	✓	Intel segment tagging	Home office, Small Business
ExpressCard slot	✗		
CardBus PCMCIA slot type	✗		
SmartCard slot	✓		
USB Sleep-and-Charge	✓		
USB Sleep-and-Charge ports	1		
Performance			
Motherboard chipset	Intel SoC		
GPS (satellite)	✓		

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