



## Lenovo IdeaPad S310 Intel® Core™ i5 i5-4200U Laptop 33,8 cm (13.3") 4 GB DDR3L-SDRAM 500 GB HDD FreeDOS Aluminium, Brown

**Brand :** Lenovo

**Product family:** IdeaPad

**Article code:** 59388555

**Product name :** S310

Lenovo IdeaPad S310. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-4200U, Processor frequency: 1,6 GHz. Display diagonal: 33,8 cm (13.3"), Display resolution: 1366 x 768 pixels. Internal memory: 4 GB, Internal memory type: DDR3L-SDRAM. Total storage capacity: 500 GB, Storage media: HDD. On-board graphics card model: Intel® HD Graphics 4400. Operating system installed: FreeDOS. Product color: Aluminium, Brown. Weight: 1,8 kg



Design		Processor special features	
Product type *	Laptop	Intel® Wireless Display (Intel® WiDi)	✓
Product color *	Aluminium, Brown	Intel® My WiFi Technology (Intel® MWT)	✓
Form factor *	Clamshell	Intel Smart Connect Technology	✓
Display		Intel® Anti-Theft Technology (Intel® AT)	✓
Display diagonal *	33,8 cm (13.3")	Intel® Rapid Start Technology	✗
Display resolution *	1366 x 768 pixels	Intel® Smart Response Technology	✗
LED backlight	✓	Intel® Identity Protection Technology (Intel® IPT)	✓
Native aspect ratio	16:9	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Display brightness	200 cd/m²	Intel® Turbo Boost Technology	2.0
Processor		Intel® Small Business Advantage (Intel® SBA)	✗
Processor manufacturer *	Intel	Intel® Matrix Storage Technology (Intel® MST)	✗
Processor family *	Intel® Core™ i5	Intel® High Definition Audio (Intel® HD Audio)	✓
Processor generation	4th gen Intel® Core™ i5	Intel® Active Management Technology (Intel® AMT)	✗
Processor model *	i5-4200U	Enhanced Intel SpeedStep Technology	✓
Processor cores	2	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor threads	4	Intel Clear Video Technology	✗
Processor boost frequency	2,6 GHz	Intel® InTru™ 3D Technology	✓
Processor frequency *	1,6 GHz	Intel® Insider™	✓
Processor cache	3 MB	Intel® Quick Sync Video Technology	✓
Processor cache type	Smart Cache	Intel Flex Memory Access	✗
Processor socket	BGA 1168	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor lithography	22 nm		
Processor operating modes	64-bit		
Processor series	Intel Core i5-4200 Mobile series		
Processor codename	Haswell		
Bus type	DMI2		
FSB Parity	✗		
Stepping	C0		
Thermal Design Power (TDP)	15 W		
Tjunction	100 °C		

Processor		Processor special features	
Maximum number of PCI Express lanes	12	Intel Trusted Execution Technology	✗
PCI Express slots version	2.0	Intel Enhanced Halt State	✓
PCI Express configurations	1x4, 2x4	Intel VT-x with Extended Page Tables (EPT)	✓
ECC supported by processor	✗	Intel Demand Based Switching	✗
Memory		Intel® Secure Key	✓
Internal memory *	4 GB	Intel TSX-NI	✗
Internal memory type	DDR3L-SDRAM	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Memory clock speed	1600 MHz	Intel 64	✓
Maximum internal memory *	8 GB	Execute Disable Bit	✓
Storage		Idle States	✓
Total storage capacity *	500 GB	Thermal Monitoring Technologies	✓
Storage media *	HDD	Processor package size	40 x 24 x 1.5 mm
Number of HDDs installed	1	Supported instruction sets	AVX 2.0
HDD capacity	500 GB	Processor code	SR170
HDD interface	SATA	CPU configuration (max)	1
HDD size	2.5"	Embedded options available	✗
Optical drive type *	✗	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Card reader integrated	✓	Intel Smart Connect Technology version	1,00
Graphics		Intel Identity Protection Technology version	1,00
On-board graphics card *	✓	Intel Secure Key Technology version	1,00
On-board graphics card family	Intel® HD Graphics	Intel ME Firmware Version	9.5
On-board graphics card model *	Intel® HD Graphics 4400	Intel TSX-NI version	0,00
On-board graphics card base frequency	200 MHz	Intel Virtualization Technology (VT-x)	✓
On-board graphics card dynamic frequency (max)	1000 MHz	Intel Dual Display Capable Technology	✗
Maximum on-board graphics card memory	1,74 GB	Intel FDI Technology	✗
On-board graphics card DirectX version	12	Intel Rapid Storage Technology	✓
On-board graphics card ID	0xA16	Intel Fast Memory Access	✗
Audio		Processor ARK ID	75459
Audio system	Dolby Advanced Audio 2	Conflict-Free processor	✓
Number of built-in speakers	2	Battery	
Speaker power	1,5 W	Battery technology	Lithium-Ion (Li-Ion)
Built-in microphone	✓	Number of battery cells	4
Camera		Battery life (max)	5 h
Front camera	✓	Power	
Network		AC adapter power	65 W
Wi-Fi	✓	DC-in jack	✓
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)	Security	
Ethernet LAN	✓	Cable lock slot	✗
Ethernet LAN data rates	10,100 Mbit/s	Password protection	✓
Bluetooth	✓	Weight & dimensions	
Bluetooth version	4.0	Width	330,8 mm
Ports & interfaces		Depth	230,2 mm
USB 2.0 ports quantity *	1	Height (front)	8 mm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Height (rear)	2,2 cm
Ethernet LAN (RJ-45) ports	1	Weight *	1,8 kg
HDMI ports quantity *	1	Packaging content	
DVI port	✗	AC adapter included *	✓
S/PDIF out port	✗	Manual	✓
Microphone in	✗	Power cord included	✓
Combo headphone/mic port	✓		

Ports & interfaces		Other features	
Docking connector	✗	LightScribe	✗
ExpressCard slot	✗	Maximum internal memory (64-bit)	8 GB
CardBus PCMCIA slot type	✗	Intel® Virtualization Technology (Intel® VT)	VT-x
SmartCard slot	✗		
Total number of SATA connectors	4		
Number of SATA III connectors	4		
Keyboard			
Pointing device	Touchpad		
Numeric keypad *	✗		
Full-size keyboard	✓		
Windows keys	✓		
Software			
Operating system installed *	FreeDOS		

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