

**ASUS Vivobook S451LN-CA009H laptop Intel® Core™ i5 i5-4200U
35.6 cm (14") Touchscreen HD 4 GB DDR3L-SDRAM 500 GB HDD
NVIDIA® GeForce® 840M Windows 8.1 Gray, Stainless steel**



Brand : ASUS

Product family: Vivobook

Product code: S451LN-CA009H

Product name : S451LN-CA009H

Intel Core i5-4200U (1.6GHz, 3MB Cache), 4GB RAM, 500GB HDD, Intel HD Graphics 4400, NVIDIA GeForce GT 840M, WLAN 802.11 b/g/n, Gigabit Ethernet, HD Camera, Windows 8.1
ASUS Vivobook S451LN-CA009H. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-4200U, Processor frequency: 1.6 GHz. Display diagonal: 35.6 cm (14"), HD type: HD, Display resolution: 1366 x 768 pixels, Touchscreen. Internal memory: 4 GB, Internal memory type: DDR3L-SDRAM. Total storage capacity: 500 GB, Storage media: HDD. Operating system installed: Windows 8.1. Product color: Gray, Stainless steel

Design		Keyboard	
Product type *	Laptop	Pointing device	Touchpad
Product color *	Gray, Stainless steel	Numeric keypad *	✗
Form factor *	Clamshell	Windows keys	✓
Display		Software	
Touchscreen type	Capacitive	Operating system installed *	Windows 8.1
Display diagonal *	35.6 cm (14")	Processor special features	
Display resolution *	1366 x 768 pixels	Intel® Wireless Display (Intel® WiDi)	✓
Touchscreen *	✓	Intel® My WiFi Technology (Intel® MWT)	✓
HD type	HD	Intel Smart Connect Technology	✓
Touch technology	Multi-touch	Intel® Anti-Theft Technology (Intel® AT)	✓
LED backlight	✓	Intel® Identity Protection Technology (Intel® IPT)	✓
Native aspect ratio	16:9	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Display surface	Gloss	Intel® Turbo Boost Technology	2.0
Processor		Intel® Matrix Storage Technology (Intel® MST)	✗
Processor manufacturer *	Intel	Intel® High Definition Audio (Intel® HD Audio)	✓
Processor family *	Intel® Core™ i5	Enhanced Intel SpeedStep Technology	✓
Processor generation	4th gen Intel® Core™ i5	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor model *	i5-4200U	Intel® InTru™ 3D Technology	✓
Processor cores	2	Intel® Insider™	✓
Processor threads	4	Intel® Quick Sync Video Technology	✓
Processor boost frequency	2.6 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor frequency *	1.6 GHz	Intel Trusted Execution Technology	✗
Processor cache	3 MB	Intel Enhanced Halt State	✓
Processor cache type	Smart Cache	Intel VT-x with Extended Page Tables (EPT)	✓
Processor socket	BGA 1168		
Processor lithography	22 nm		
Processor operating modes	64-bit		
Processor series	Intel Core i5-4200 Mobile series		
Processor codename	Haswell		
Bus type	DMI2		
Stepping	C0		
Thermal Design Power (TDP)	15 W		
Tjunction	100 °C		

Processor		Processor special features	
Maximum number of PCI Express lanes	12	Intel® Secure Key	✓
PCI Express slots version	2.0	Intel TSX-NI	✗
PCI Express configurations	1x4, 2x4	Intel 64	✓
ECC supported by processor	✗	Execute Disable Bit	✓
Memory		Idle States	✓
Internal memory *	4 GB	Thermal Monitoring Technologies	✓
Internal memory type	DDR3L-SDRAM	Processor package size	40 x 24 x 1.5 mm
Memory form factor	On-board + SO-DIMM	Supported instruction sets	AVX 2.0
Memory slots	1x SO-DIMM	Processor code	SR170
Maximum internal memory *	12 GB	CPU configuration (max)	1
Storage		Embedded options available	✗
Total storage capacity *	500 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Storage media *	HDD	Intel Smart Connect Technology version	1.00
Optical drive type *	DVD Super Multi	Intel Identity Protection Technology version	1.00
Card reader integrated	✓	Intel Secure Key Technology version	1.00
Compatible memory cards	SD, MMC	Intel ME Firmware Version	9.5
Graphics		Intel TSX-NI version	0.00
Discrete graphics card model *	NVIDIA® GeForce® 840M	Intel Virtualization Technology (VT-x)	✓
Discrete graphics card memory	2 GB	Intel FDI Technology	✗
Discrete graphics memory type	GDDR3	Intel Rapid Storage Technology	✓
On-board graphics card *	✓	Processor ARK ID	75459
Discrete graphics card *	✓	Conflict-Free processor	✓
On-board graphics card model *	Intel® HD Graphics 4400	Battery	
On-board graphics card base frequency	200 MHz	Battery technology	Lithium Polymer (LiPo)
On-board graphics card dynamic frequency (max)	1000 MHz	Number of battery cells	2
Maximum on-board graphics card memory	1.74 GB	Battery capacity *	38 Wh
On-board graphics card ID	0xA16	Power	
Audio		AC adapter power	65 W
Built-in microphone	✓	AC adapter frequency	50 - 60 Hz
Camera		AC adapter input voltage	100 - 240 V
Front camera	✓	AC adapter output current	3.42 A
Network		AC adapter output voltage	19 V
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	10,1000,100 Mbit/s	Cable lock slot type	Kensington
Bluetooth	✓	Password protection	✓
Bluetooth version	4.0	Password protection type	HDD, User
Ports & interfaces		Weight & dimensions	
USB 2.0 ports quantity *	1	Width	348 mm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Depth	241.8 mm
Ethernet LAN (RJ-45) ports	1	Height	24.8 mm
HDMI ports quantity *	1	Weight *	2.2 kg
Combo headphone/mic port	✓		
Docking connector	✗		
Total number of SATA connectors	4		
Number of SATA III connectors	4		

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