ASUS

ASUS Vivobook S451LB-CA011H laptop Intel® Core™ i5 i5-4200U 35.6 cm (14") Touchscreen 4 GB DDR3-SDRAM 500 GB HDD NVIDIA® GeForce® GT 740M Windows 8 Black, Stainless steel

Brand : ASUS   **Product family:** Vivobook   **Product code:** S451LB-CA011H

Product name : S451LB-CA011H

Intel Core i5-4200U (3M Cache, 1.6GHz), 14.0" 16:9 HD (1366x768) touch, 4GB DDR3, 500GB HDD, Super-Multi DVD, Intel HD Graphics 4400 + NVIDIA GeForce GT 740M 2GB DDR3 VRAM, Gigabit Ethernet, WLAN 802.11 b/g/n, Bluetooth 4.0, HD WebCam, Windows 8
ASUS Vivobook S451LB-CA011H. 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"), Display resolution: 1366 x 768 pixels, Touchscreen. Internal memory: 4 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 500 GB, Storage media: HDD, Optical drive type: DVD Super Multi. Operating system installed: Windows 8. Product colour: Black, Stainless steel

Design	
Product type *	Laptop
Product colour *	Black, Stainless steel
Form factor *	Clamshell

Display	
Touchscreen type	Capacitive
Display diagonal *	35.6 cm (14")
Display resolution *	1366 x 768 pixels
Touchscreen *	✔
HD type	Not supported
Touch technology	Multi-touch
Native aspect ratio	16:9

Processor	
Processor manufacturer *	Intel
Processor family *	Intel® Core™ i5
Processor generation	4th gen Intel® Core™ i5
Processor model *	i5-4200U
Processor cores	2
Processor threads	4
Processor boost frequency	2.6 GHz
Processor frequency *	1.6 GHz
Processor cache	3 MB
Processor cache type	Smart Cache
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
FSB Parity	✘
Stepping	C0
Thermal Design Power (TDP)	15 W
Tjunction	100 °C
Maximum number of PCI Express lanes	12
PCI Express slots version	2.0
PCI Express configurations	1x4, 2x4
ECC supported by processor	✘

Ports & interfaces	
Number of SATA III connectors	4

Keyboard	
Pointing device	Touchpad
Numeric keypad *	✘
Windows keys	✔

Software	
Operating system installed *	Windows 8

Processor special features	
Intel® Wireless Display (Intel® WiDi)	✔
Intel® My WiFi Technology (Intel® MWT)	✔
Intel Smart Connect Technology	✔
Intel® Anti-Theft Technology (Intel® AT)	✔
Intel® Identity Protection Technology (Intel® IPT)	✔
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Turbo Boost Technology	2.0
Intel® Matrix Storage Technology (Intel® MST)	✘
Intel® High Definition Audio (Intel® HD Audio)	✔
Enhanced Intel SpeedStep Technology	✔
Intel® Clear Video HD Technology (Intel® CVT HD)	✔
Intel Clear Video Technology	✘
Intel® InTru™ 3D Technology	✔
Intel® Insider™	✔
Intel® Quick Sync Video Technology	✔
Intel Flex Memory Access	✘
Intel® AES New Instructions (Intel® AES-NI)	✔
Intel Trusted Execution Technology	✘
Intel Enhanced Halt State	✔
Intel VT-x with Extended Page Tables (EPT)	✔

Memory

Internal memory *	4 GB
Internal memory type	DDR3-SDRAM
Memory slots	1x SO-DIMM
Maximum internal memory *	8 GB

Storage

Total storage capacity *	500 GB
Storage media *	HDD
Number of HDDs installed	1
HDD capacity	500 GB
Optical drive type *	DVD Super Multi
Card reader integrated	✔
Compatible memory cards	SD, SDHC

Graphics

Discrete graphics card model *	NVIDIA® GeForce® GT 740M
Discrete graphics card memory	2 GB
Discrete graphics memory type	GDDR3
On-board graphics card *	✔
Discrete graphics card *	✔
On-board graphics card family	Intel® HD Graphics
On-board graphics card model *	Intel® HD Graphics 4400
On-board graphics card base frequency	200 MHz
On-board graphics card dynamic frequency (max)	1000 MHz
Maximum on-board graphics card memory	1.74 GB
On-board graphics card DirectX version	12
On-board graphics card ID	0xA16

Audio

Audio system	SonicMaster
Built-in microphone	✔

Camera

Front camera	✔

Network

Wi-Fi	✔
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)
Ethernet LAN	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth	✔
Bluetooth version	4.0
4G WiMAX	✘

Ports & interfaces

USB 2.0 ports quantity *	1
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1
DVI port	✘
S/PDIF out port	✘
Microphone in	✘
Combo headphone/mic port	✔
Docking connector	✘
ExpressCard slot	✘
CardBus PCMCIA slot type	✘
SmartCard slot	✘

Processor special features

Intel Demand Based Switching	✘
Intel® Secure Key	✔
Intel TSX-NI	✘
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✘
Intel 64	✔
Execute Disable Bit	✔
Idle States	✔
Thermal Monitoring Technologies	✔
Processor package size	40 x 24 x 1.5 mm
Supported instruction sets	AVX 2.0
Processor code	SR170
CPU configuration (max)	1
Embedded options available	✘
Intel Virtualization Technology for Directed I/O (VT-d)	✘
Intel Smart Connect Technology version	1.00
Intel Identity Protection Technology version	1.00
Intel Secure Key Technology version	1.00
Intel ME Firmware Version	9.5
Intel TSX-NI version	0.00
Intel Virtualization Technology (VT-x)	✔
Intel Dual Display Capable Technology	✘
Intel FDI Technology	✘
Intel Rapid Storage Technology	✔
Intel Fast Memory Access	✘
Processor ARK ID	75459
Conflict-Free processor	✔

Battery

Number of battery cells	4
Battery capacity *	46 Wh

Power

AC adapter power	65 W
AC adapter frequency	50 - 60 Hz
AC adapter input voltage	100 - 240 V
AC adapter output current	3.42 A
AC adapter output voltage	19 V
DC-in jack	✔

Security

Cable lock slot	✔
Cable lock slot type	Kensington
Password protection type	HDD, User

Weight & dimensions

Width	348 mm
Depth	241.8 mm
Height	24.8 mm
Weight *	2.2 kg

Other features

3D	✘

Ports & interfaces

Total number of SATA connectors   4

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