ASUS R510LDV-CJ1101H laptop Intel® Core™ i5 i5-4210U 39,6 cm (15.6") HD 4 GB DDR3L-SDRAM 1 TB HDD NVIDIA® GeForce® GT 820M Windows 8.1 Grey, Silver

Brand : ASUS

Product name : R510LDV-CJ1101H

Product code: R510LDV-CJ1101H

Intel Core i5-4210U (1.7GHz, 3MB Cache), 4GB DDR3, 1000GB HDD, Intel HD Graphics 4400 + NVIDIA GeForce GT 820M WLAN 802.11 b/g, Gigabit Ethernet, Windows 8.1
ASUS R510LDV-CJ1101H. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-4210U, Processor frequency: 1,7 GHz. Display diagonal: 39,6 cm (15.6"), HD type: HD, Display resolution: 1366 x 768 pixels. Internal memory: 4 GB, Internal memory type: DDR3L-SDRAM. Total storage capacity: 1 TB, Storage media: HDD. On-board graphics card model: Intel® HD Graphics 4400. Operating system installed: Windows 8.1. Product colour: Grey, Silver

Design

Product type *	Laptop
Product colour *	Grey, Silver
Form factor *	Clamshell

Display

Display diagonal *	39,6 cm (15.6")
Display resolution *	1366 x 768 pixels
Touchscreen *	✗
HD type	HD
LED backlight	✔
Native aspect ratio	16:9

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i5
Processor generation	4th gen Intel® Core™ i5
Processor model *	i5-4210U
Processor cores	2
Processor threads	4
Processor boost frequency	2,7 GHz
Processor frequency *	1,7 GHz
System bus rate	5 GT/s
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	D0
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	4x1, 2x4
ECC supported by processor	✗

Keyboard

Pointing device	Touchpad
Numeric keypad *	✔
Windows keys	✔

Software

Operating system installed *	Windows 8.1

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® Smart Cache	✔
Intel® AES New Instructions (Intel® AES-NI)	✔
Intel Trusted Execution Technology	✗
Intel Enhanced Halt State	✔
Intel VT-x with Extended Page Tables (EPT)	✔
Intel Demand Based Switching	✗
Intel® Secure Key	✔

Memory

Internal memory *	4 GB
Internal memory type	DDR3L-SDRAM
Memory clock speed	1600 MHz
Maximum internal memory *	8 GB

Storage

Total storage capacity *	1 TB
Storage media *	HDD
Number of hard drives installed	1
Hard drive capacity	1 TB
Hard drive speed	5400 RPM
Card reader integrated	✔
Compatible memory cards	SD, SDHC, SDXC

Graphics

Discrete graphics card model *	NVIDIA® GeForce® GT 820M
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
Ethernet LAN	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth	✔
Bluetooth version	4.0

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	✘
VGA (D-Sub) ports quantity	1
S/PDIF out port	✘
Microphone in	✘
Combo headphone/mic port	✔
Docking connector	✘
ExpressCard slot	✘
CardBus PCMCIA slot type	✘
SmartCard slot	✘

Processor special features

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, SSE4.1, SSE4.2
Processor code	SR1EF
CPU configuration (max)	1
Embedded options available	✘
UART	✔
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	81016
Conflict-Free processor	✔

Battery

Number of battery cells	4
Battery capacity *	37 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	✔
Password protection type	BIOS, User

Weight & dimensions

Width	380 mm
Depth	251 mm
Height (front)	2,48 cm
Height (rear)	3,17 cm
Weight *	2,3 kg

Other features

Intel® Virtualization Technology (Intel® VT)	VT-x

Ports & interfaces

Total number of SATA connectors	4
Number of SATA III connectors	4

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