ASUS

ASUS A56CM-XX309H laptop Intel® Core™ i7 i7-3537U 39.6 cm (15.6") 8 GB DDR3-SDRAM 500 GB HDD NVIDIA® GeForce® GT 635M Windows 8 Black, Silver

Brand : ASUS

Product code: A56CM-XX309H

Product name : A56CM-XX309H

A56CM-XX309H - Intel Core i7-3537U (4M Cache, 2 GHz), 8GB DDR3, 500GB HDD, 15.6" 16:9 HD (1366x768), Gigabit Ethernet, WLAN 802.11 b/g/n, 2x USB 2.0, USB 3.0, HDMI, VGA, Windows 8, 2.3kg ASUS A56CM-XX309H. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-3537U, Processor frequency: 2 GHz. Display diagonal: 39.6 cm (15.6"), Display resolution: 1366 x 768 pixels. Internal memory: 8 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 500 GB, Storage media: HDD, Optical drive type: DVD Super Multi. On-board graphics card model: Intel® HD Graphics 4000. Operating system installed: Windows 8. Product colour: Black, Silver

Design

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

Display

Display diagonal *	39.6 cm (15.6")
Display resolution *	1366 x 768 pixels
Touchscreen *	✗
LED backlight	✔
Native aspect ratio	16:9

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i7
Processor generation	3rd gen Intel® Core™ i7
Processor model *	i7-3537U
Processor cores	2
Processor threads	4
Processor boost frequency	3.1 GHz
Processor frequency *	2 GHz
System bus rate	5 GT/s
Processor cache	4 MB
Processor cache type	Smart Cache
Processor socket	BGA 1023
Processor lithography	22 nm
Processor operating modes	64-bit
Processor series	Intel Core i7-3500 Mobile series
Processor codename	Ivy Bridge
Bus type	DMI
FSB Parity	✗

Ports & interfaces

SmartCard slot	✗

Performance

Motherboard chipset	Intel HM76 Express

Keyboard

Pointing device	Touchpad
Numeric keypad *	✔
Full-size keyboard	✔

Software

Operating system installed *	Windows 8

Processor special features

Intel® Wireless Display (Intel® WiDi)	✔
Intel® My WiFi Technology (Intel® MWT)	✔
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
Enhanced Intel SpeedStep Technology	✔
Intel® Clear Video HD Technology (Intel® CVT HD)	✔
Intel Clear Video Technology	✗
Intel® InTru™ 3D Technology	✔
Intel® Insider™	✔

Processor

Stepping	L1
Thermal Design Power (TDP)	17 W
Tjunction	105 °C
Maximum number of PCI Express lanes	16
PCI Express slots version	2.0
PCI Express configurations	1x8, 1x16, 2x4, 2x8
CPU multiplier (bus/core ratio)	20
ECC supported by processor	✘

Memory

Internal memory *	8 GB
Internal memory type	DDR3-SDRAM
Memory clock speed	1600 MHz
Memory layout (slots x size)	2 x 4 GB
Memory slots	2x 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
HDD interface	SATA
HDD size	2.5"
Optical drive type *	DVD Super Multi
Card reader integrated	✔
Compatible memory cards	SD

Graphics

Discrete graphics card model *	NVIDIA® GeForce® GT 635M
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 4000
On-board graphics card base frequency	350 MHz
On-board graphics card dynamic frequency (max)	1200 MHz
On-board graphics card ID	0x166

Audio

Audio system	SonicMaster Lite
Built-in speaker(s)	✔
Built-in microphone	✔

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	✘
Cabling technology	10/100/1000Base-T(X)

Ports & interfaces

USB 2.0 ports quantity *	2
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1
DVI port	✘

Processor special features

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	✔
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	31 x 24 (BGA1023)
Supported instruction sets	AVX
Processor code	SR0XG
CPU configuration (max)	1
Embedded options available	✘
Graphics & IMC lithography	22 nm
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Identity Protection Technology version	1.00
Intel Secure Key Technology version	1.00
Intel Virtualization Technology (VT-x)	✔
Intel Dual Display Capable Technology	✔
Intel FDI Technology	✔
Intel Rapid Storage Technology	✘
Intel Fast Memory Access	✔
Processor ARK ID	72054
Conflict-Free processor	✔
Integrated 4G WiMAX	✔

Battery

Battery capacity	2950 mAh
Battery capacity *	44 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	✘

Weight & dimensions

Width	380 mm
Depth	266 mm
Height (front)	2.1 cm
Height (rear)	2.1 cm
Weight *	2.3 kg

Ports & interfaces			Packaging content	
VGA (D-Sub) ports quantity	1		AC adapter included *	✔
S/PDIF out port	✘		Cables included	AC
Microphone in	✘		Manual	✔
Combo headphone/mic port	✔		Quick start guide	✔
ExpressCard slot	✘		Warranty card	✔
CardBus PCMCIA slot type	✘			

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