



## ASUS N56VZ-S4033V i7-3610QM 39.6 cm (15.6") Full HD Intel® Core™ i7 8 GB DDR3-SDRAM 750 GB HDD NVIDIA® GeForce® GT 650M Windows 7 Home Premium Black, Silver

Brand : ASUS

Product code: 90N9IC442S3871VL123

Product name : N56VZ-S4033V



Intel Core i7-3610QM (6M Cache, 2.3 GHz), 8GB DDR3, 750GB HDD, GeForce GT 650M 2GB DDR3, Blu-Ray DVD Combo, 15.6" Full HD (1920x1080) LED Backlight, 802.11 b/g/n, Gigabit Ethernet, 2700g, Black/Silver, Windows 7 Home Premium

ASUS N56VZ-S4033V. Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor: i7-3610QM, Processor frequency: 2.3 GHz. Display diagonal: 39.6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 8 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 750 GB, Storage media: HDD, Optical drive: Blu-Ray DVD Combo. On-board graphics card model: Intel® HD Graphics 4000. Operating system installed: Windows 7 Home Premium. Product colour: Black, Silver



Design		Ports & interfaces	
Product colour *	Black, Silver	Headphone connectivity	3.5 mm
Form factor *	Clamshell	Microphone connectivity	3.5 mm
<b>Display</b>		TV-out	✗
Display diagonal *	39.6 cm (15.6")	<b>Keyboard</b>	
Display resolution *	1920 x 1080 pixels	Pointing device	Touchpad
HD type	Full HD	Numeric keypad *	✓
LED backlight	✓	Full-size keyboard	✓
Native aspect ratio	16:9	<b>Software</b>	
<b>Processor</b>		Drivers included	✓
Processor manufacturer *	Intel	Operating system installed *	Windows 7 Home Premium
Processor generation	3rd gen Intel® Core™ i7	<b>Processor special features</b>	
Processor *	i7-3610QM	Intel Wireless Display (WiDi) Technology	✓
Processor family *	Intel® Core™ i7	Intel My WiFi Technology	✓
Processor frequency *	2.3 GHz	Intel Anti-Theft Technology	✓
Processor boost frequency	3.3 GHz	Intel Identity Protection Technology	✓
Processor number of cores	4	Intel Hyper-Threading Technology	✓
Processor threads	8	Intel Turbo Boost Technology	2.0
System bus data transfer rate	5 GT/s	Enhanced Intel SpeedStep Technology	✓
Processor cache	6 MB	Intel Clear Video HD Technology	✓
Processor cache type	Smart Cache	Intel Clear Video Technology	✗
Processor socket	Socket G2	Intel® InTru™ 3D Technology	✓
Processor lithography	22 nm	Intel® Insider™	✓
Processor operating modes	64-bit	Intel® Quick Sync Video Technology	✓
Processor series	Intel Core i7-3600 Mobile series	Intel Flex Memory Access	✓
Processor codename	Ivy Bridge	Intel AES New Instructions	✓
Bus type	DMI	Intel Trusted Execution Technology	✗
FSB Parity	✗		
Chipset	Intel HM76 Express		

Processor		Processor special features	
Thermal Design Power (TDP)	45 W	Intel Enhanced Halt State	✓
Tjunction	105 C	Intel VT-x with Extended Page Tables (EPT)	✓
Maximum number of PCI Express lanes	16	Intel Demand Based Switching	✗
PCI Express slots version	3.0	Intel® Secure Key	✓
PCI Express configurations	1x16, 2x8	Intel Clear Video Technology for MID	✗
CPU multiplier (bus/core ratio)	23	Intel 64	✓
ECC supported by processor	✗	Execute Disable Bit	✓
<b>Memory</b>		Idle States	✓
Internal memory *	8 GB	Thermal Monitoring Technologies	✓
Internal memory type	DDR3-SDRAM	Processor package size	37.5 x 37.5 (rPGA988B)
Memory clock speed	1600 MHz	Supported instruction sets	AVX
Memory slots	2x SO-DIMM	CPU configuration (max)	1
Memory, maximum *	8 GB	Embedded options available	✗
<b>Storage</b>		Graphics & IMC lithography	22 nm
Total storage capacity *	750 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Storage media *	HDD	Intel Identity Protection Technology version	1.00
Number of HDDs installed	1	Intel Secure Key Technology version	1.00
Hard drive capacity	750 GB	Intel Virtualization Technology (VT-x)	✓
Hard drive interface	SATA	Intel Dual Display Capable Technology	✓
Hard drive size	2.5"	Intel FDI Technology	✓
Optical drive *	Blu-Ray DVD Combo	Intel Rapid Storage Technology	✗
Card reader integrated	✓	Intel Fast Memory Access	✓
Compatible memory cards	Memory Stick (MS), MMC, MS PRO, SD	Processor ARK ID	64899
<b>Graphics</b>		Conflict-Free processor	✓
Discrete graphics card model *	NVIDIA® GeForce® GT 650M	Integrated 4G WiMAX	✓
On-board graphics card *	✓	<b>Battery</b>	
Discrete graphics card *	✓	Number of battery cells	6
On-board graphics card family	Intel® HD Graphics	Battery capacity	5200 mAh
On-board graphics card model *	Intel® HD Graphics 4000	Battery capacity *	56 Wh
On-board graphics card base frequency	650 MHz	<b>Power</b>	
On-board graphics card dynamic frequency (max)	1100 MHz	AC adapter power	120 W
On-board graphics card ID	0x166	AC adapter frequency	50 - 60 Hz
Discrete graphics card memory	2 GB	AC adapter input voltage	100 - 240 V
Discrete graphics memory type	GDDR3	AC adapter output current	6.3 A
<b>Audio</b>		AC adapter output voltage	19 V
Audio system	HD	<b>Security</b>	
Number of built-in speakers	2	Cable lock slot	✓
Speakers manufacturer	Bang & Olufsen	Cable lock slot type	Kensington
Built-in subwoofer	✓	Password protection type	BIOS, HDD, User
Built-in microphone	✓	<b>Weight &amp; dimensions</b>	
<b>Network</b>		Width	380 mm
Wi-Fi	✓	Depth	255 mm
Network interface	Gigabit Ethernet	Height (front)	2.7 cm
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)	Height (rear)	3.4 cm
Ethernet LAN connection	✓	Weight *	2.7 kg
Ethernet LAN data rates	10,100,1000 Mbit/s	<b>Packaging content</b>	
Bluetooth	✗	Manual	✓
Cabling technology	10/100/1000Base-T(X)	Quick start guide	✓
<b>Ports &amp; interfaces</b>		<b>Other features</b>	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4	Wireless	802.11 b/g/n
Ethernet LAN (RJ-45) ports	1	AC adapter included	✓
HDMI ports quantity *	1	Infrared data port	✗
DVI port	✗	Graphics card family	Intel, NVIDIA
VGA (D-Sub) ports quantity	1	Display	TFT

Ports & interfaces		Other features	
Headphone outputs	1	Power supply type	AC/DC
S/PDIF out port	✓	Compliance industry standards	IEEE 802.3/802.3u/802.3ab
Microphone in	✓	HDD user password	✓
Line-in	✓		
Charging port type	DC-in jack		
ExpressCard slot	✗		
CardBus PCMCIA slot type	✗		
SmartCard slot	✗		

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