



Lenovo Essential G500 Intel® Core™ i5 i5-3230M Laptop 39,6 cm (15.6") HD 8 GB DDR3-SDRAM 1 TB HDD AMD Radeon HD 8750M Windows 8 Black

Brand : Lenovo

Product family: Essential

Product code: 59371092

Product name : G500

Intel Core i5-3230M, 8GB DDR3, 1000GB SATA, SuperMulti DVD, 15.6" 1366 x 768 LED, AMD Mobility Radeon HD 8750M 2GB, Fast Ethernet, WLAN 802.11bgn, Windows 8
Lenovo Essential G500. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-3230M, Processor frequency: 2,6 GHz. Display diagonal: 39,6 cm (15.6"), HD type: HD, Display resolution: 1366 x 768 pixels. Internal memory: 8 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 1 TB, Storage media: HDD, Optical drive type: DVD Super Multi. Operating system installed: Windows 8. Product colour: Black



Design		Keyboard	
Product type *	Laptop	Full-size keyboard	✓
Product colour *	Black	Software	
Form factor *	Clamshell		
Display		Operating system architecture	64-bit
		Operating system installed *	Windows 8
Display diagonal *		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® Anti-Theft Technology (Intel® AT)	✓
Display number of colours	16.78 million colours	Intel® Identity Protection Technology (Intel® IPT)	✓
LED backlight	✓	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Native aspect ratio	16:9	Intel® Turbo Boost Technology	2.0
Processor		Intel® Matrix Storage Technology (Intel® MST)	✗
		Intel® High Definition Audio (Intel® HD Audio)	✗
Processor manufacturer *	Intel	Intel® Active Management Technology (Intel® AMT)	✗
Processor family *	Intel® Core™ i5	Enhanced Intel SpeedStep Technology	✓
Processor generation	3rd gen Intel® Core™ i5	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor model *	i5-3230M	Intel Clear Video Technology	✗
Processor cores	2	Intel® InTru™ 3D Technology	✓
Processor threads	4	Intel® Insider™	✓
Processor boost frequency	3,2 GHz	Intel® Quick Sync Video Technology	✓
Processor frequency *	2,6 GHz	Intel Flex Memory Access	✓
System bus rate	5 GT/s	Intel® Smart Cache	✓
Processor cache	3 MB	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cache type	Smart Cache	Intel Trusted Execution Technology	✗
Processor socket	BGA 1023	Intel Enhanced Halt State	✓
Processor lithography	22 nm		
Processor operating modes	64-bit		
Processor series	Intel Core i5-3200 Mobile series		
Processor codename	Ivy Bridge		
Bus type	DMI		
FSB Parity	✗		
Stepping	L1		
Thermal Design Power (TDP)	35 W		
Tjunction	105 °C		
Maximum number of PCI Express lanes	16		

Processor		Processor special features	
PCI Express slots version	3.0	Intel VT-x with Extended Page Tables (EPT)	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel Demand Based Switching	✗
CPU multiplier (bus/core ratio)	26	Intel® Secure Key	✓
ECC supported by processor	✗	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Memory		Intel 64	✓
Internal memory *	8 GB	Execute Disable Bit	✓
Internal memory type	DDR3-SDRAM	Idle States	✓
Memory form factor	SO-DIMM	Thermal Monitoring Technologies	✓
Memory slots	2x SO-DIMM	Processor package size	31 x 24 (BGA1023)
Maximum internal memory *	16 GB	Supported instruction sets	AVX
Storage		Processor code	SR0WX
Total storage capacity *	1 TB	CPU configuration (max)	1
Storage media *	HDD	Embedded options available	✗
Number of hard drives installed	1	Graphics & IMC lithography	22 nm
Hard drive capacity	1 TB	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Hard drive interface	SATA	Intel Identity Protection Technology version	1,00
Hard drive speed	5400 RPM	Intel Secure Key Technology version	1,00
Hard drive size	2.5"	Intel Virtualization Technology (VT-x)	✓
Optical drive type *	DVD Super Multi	Intel Dual Display Capable Technology	✓
Card reader integrated	✓	Intel FDI Technology	✓
Compatible memory cards	MMC, SD, SDHC, SDXC	Intel Rapid Storage Technology	✗
Graphics		Intel Fast Memory Access	✓
Discrete graphics card model *	AMD Radeon HD 8750M	Processor ARK ID	72056
Discrete graphics card memory	2 GB	Conflict-Free processor	✓
On-board graphics card *	✓	Integrated 4G WiMAX	✓
Discrete graphics card *	✓	Battery	
On-board graphics card family	Intel® HD Graphics	Battery technology	Lithium-Ion (Li-Ion)
On-board graphics card model *	Intel® HD Graphics 4000	Number of battery cells	6
On-board graphics card memory	1,65 GB	Battery life (max)	5 h
On-board graphics card base frequency	650 MHz	Power	
On-board graphics card dynamic frequency (max)	1100 MHz	AC adapter frequency	50 - 60 Hz
On-board graphics card ID	0x166	AC adapter input voltage	100 - 240 V
Number of discrete graphics cards supported	1	AC adapter output voltage	19 V
Number of discrete graphics cards installed	1	Power auto-sensing	✓
Audio		DC-in jack	✓
Audio system	Dolby Advanced Audio	Security	
Number of built-in speakers	2	Cable lock slot	✓
Built-in microphone	✓	Password protection	✓
Camera		Operational conditions	
Front camera	✓	Operating temperature (T-T)	5 - 35 °C
Front camera resolution	1280 x 720 pixels	Storage temperature (T-T)	-15 - 60 °C
Network		Operating relative humidity (H-H)	20 - 85%
Wi-Fi	✓	Storage relative humidity (H-H)	10 - 90%
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)	Operating altitude	0 - 3050 m
Ethernet LAN	✓	Non-operating altitude	0 - 4570 m
Ethernet LAN data rates	10,100 Mbit/s	Weight & dimensions	
Bluetooth	✓	Width	377 mm
Bluetooth version	4.0	Depth	250 mm
WWAN	Not installed	Height	34 mm
Ports & interfaces		Weight *	2,6 kg
USB 2.0 ports quantity *	1		
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2		

Ports & interfaces		Packaging content	
Ethernet LAN (RJ-45) ports	1	AC adapter included *	✓
HDMI ports quantity *	1	Manual	✓
DVI port	✗	Quick start guide	✓
VGA (D-Sub) ports quantity	1	Warranty card	✓
Headphone outputs	1	Power cord included	✓
S/PDIF out port	✗	Other features	
Microphone in	✓	LightScribe	✗
Combo headphone/mic port	✗	Disc types supported	CD, DVD
Docking connector	✗	3D	✗
ExpressCard slot	✗	Maximum internal memory (64-bit)	16 GB
CardBus PCMCIA slot type	✗	TV tuner integrated	✗
SmartCard slot	✗		
Keyboard			
Pointing device	Touchpad		
Numeric keypad *	✓		
Island-style keyboard	✓		



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