



Lenovo Essential G50-70 Intel® Core™ i5 i5-4210U Laptop 39.6 cm (15.6") 4 GB DDR3L-SDRAM 1 TB HDD AMD Radeon R5 M230 Black

Brand : Lenovo

Product family: Essential

Product code: 59440034

Product name : G50-70

Intel Core i5-4210U (3M Cache, up to 2.70 GHz), 4GB DDR3L 1600MHz, 1TB HDD, 15.6" HD (1366x768), Intel HD Graphics 4400 + AMD Radeon R5 M230, Wi-Fi 802.11 b/g/n, Bluetooth 4.0, HD Webcam, No OS
Lenovo Essential G50-70. 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"), Display resolution: 1366 x 768 pixels. Internal memory: 4 GB, Internal memory type: DDR3L-SDRAM. Total storage capacity: 1 TB, Storage media: HDD, Optical drive type: DVD±RW. On-board graphics card model: Intel® HD Graphics 4400, Discrete graphics card model: AMD Radeon R5 M230. Product colour: Black



Design		Ports & interfaces	
Product type *	Laptop	Number of SATA III connectors	4
Product colour *	Black	Keyboard	
Form factor *	Clamshell	Pointing device	Touchpad
Display		Numeric keypad *	✓
Display diagonal *	39.6 cm (15.6")	Full-size keyboard	✓
Display resolution *	1366 x 768 pixels	Windows keys	✓
Touchscreen *	✗	Software	
LED backlight	✓	Operating system installed *	✗
Native aspect ratio	16:9	Processor special features	
Display surface	Gloss	Intel® Wireless Display (Intel® WiDi)	✓
Display brightness	200 cd/m²	Intel® My WiFi Technology (Intel® MWT)	✗
Contrast ratio (typical)	500:1	Intel Smart Connect Technology	✓
Processor		Intel® Anti-Theft Technology (Intel® AT)	✓
Processor manufacturer *	Intel	Intel® Rapid Start Technology	✗
Processor family *	Intel® Core™ i5	Intel® Smart Response Technology	✗
Processor generation	4th gen Intel® Core™ i5	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor model *	i5-4210U	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cores	2	Intel® Turbo Boost Technology	2.0
Processor threads	4	Intel® Small Business Advantage (Intel® SBA)	✗
Processor boost frequency	2.7 GHz	Intel® Matrix Storage Technology (Intel® MST)	✗
Processor frequency *	1.7 GHz	Intel® High Definition Audio (Intel® HD Audio)	✓
System bus rate	5 GT/s	Intel® Active Management Technology (Intel® AMT)	✗
Processor cache	3 MB	Enhanced Intel SpeedStep Technology	✓
Processor cache type	Smart Cache	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor socket	BGA 1168	Intel Clear Video Technology	✗
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		

Processor		Processor special features	
Maximum number of PCI Express lanes	12	Intel® InTru™ 3D Technology	✓
PCI Express slots version	2.0	Intel® Insider™	✓
PCI Express configurations	4x1, 2x4	Intel® Quick Sync Video Technology	✓
ECC supported by processor	✗	Intel Flex Memory Access	✗
Memory		Intel® Smart Cache	✓
Internal memory *	4 GB	Intel® AES New Instructions (Intel® AES-NI)	✓
Internal memory type	DDR3L-SDRAM	Intel Trusted Execution Technology	✗
Memory clock speed	1600 MHz	Intel Enhanced Halt State	✓
Memory form factor	SO-DIMM	Intel VT-x with Extended Page Tables (EPT)	✓
Memory layout (slots x size)	1 x 4 GB	Intel Demand Based Switching	✗
Memory slots	2x SO-DIMM	Intel® Secure Key	✓
Maximum internal memory *	16 GB	Intel TSX-NI	✗
Storage		Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Total storage capacity *	1 TB	Intel 64	✓
Storage media *	HDD	Execute Disable Bit	✓
Number of HDDs installed	1	Idle States	✓
HDD capacity	1 TB	Thermal Monitoring Technologies	✓
HDD interface	SATA	Processor package size	40 x 24 x 1.5 mm
HDD size	2.5"	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Optical drive type *	DVD±RW	Processor code	SR1EF
Card reader integrated	✓	CPU configuration (max)	1
Compatible memory cards	MMC, SD	Embedded options available	✗
Graphics		UART	✓
Discrete graphics card model *	AMD Radeon R5 M230	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Discrete graphics memory type	GDDR3	Intel Smart Connect Technology version	1.00
On-board graphics card *	✓	Intel Identity Protection Technology version	1.00
Discrete graphics card *	✓	Intel Secure Key Technology version	1.00
On-board graphics card family	Intel® HD Graphics	Intel ME Firmware Version	9.5
On-board graphics card model *	Intel® HD Graphics 4400	Intel TSX-NI version	0.00
On-board graphics card base frequency	200 MHz	Intel Virtualization Technology (VT-x)	✓
On-board graphics card dynamic frequency (max)	1000 MHz	Intel Dual Display Capable Technology	✗
Maximum on-board graphics card memory	1.74 GB	Intel FDI Technology	✗
On-board graphics card DirectX version	12	Intel Rapid Storage Technology	✓
On-board graphics card ID	0xA16	Intel Fast Memory Access	✗
Number of discrete graphics cards supported	1	Processor ARK ID	81016
Number of discrete graphics cards installed	1	Conflict-Free processor	✓
Audio		Battery	
Audio system	Dolby Advanced Audio 2	Battery technology	Lithium-Ion (Li-Ion)
Number of built-in speakers	2	Battery life (max)	4 h
Speaker power	1.5 W	Power	
Built-in microphone	✓	AC adapter power	65 W
Camera		AC adapter frequency	50 - 60 Hz
Front camera	✓	AC adapter input voltage	100 - 240 V
Front camera resolution (numeric)	1 MP	DC-in jack	✓
Front camera resolution	1280 x 720 pixels	Security	
Network		Cable lock slot	✗
Wi-Fi	✓	Password protection	✓
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)		
Ethernet LAN	✓		
Ethernet LAN data rates	10,100,1000 Mbit/s		
Bluetooth	✓		

Network		Weight & dimensions	
Bluetooth version	4.0	Width	384 mm
Ports & interfaces		Depth	265 mm
USB 2.0 ports quantity *	2	Height	25 mm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1	Weight *	2.5 kg
Ethernet LAN (RJ-45) ports	1	Packaging content	
HDMI ports quantity *	1	AC adapter included *	✓
DVI port	✗	Manual	✓
VGA (D-Sub) ports quantity	1	Power cord included	✓
S/PDIF out port	✗	Other features	
Microphone in	✗	Maximum internal memory (64-bit)	16 GB
Combo headphone/mic port	✓	Intel® Virtualization Technology (Intel® VT)	VT-x
Docking connector	✗		
ExpressCard slot	✗		
CardBus PCMCIA slot type	✗		
SmartCard slot	✗		
Total number of SATA connectors	4		

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