



**Lenovo Essential G770 Intel® Core™ i5 i5-2410M 43.9 cm (17.3")
HD+ 6 GB DDR3-SDRAM 750 GB HDD AMD Radeon HD 6650M
Windows 7 Home Premium Black, Brown**

Brand : Lenovo

Product family: Essential

Product code: 10372KU

Product name : G770

Essential G770, 17.3" TFT 1600 x 900 px, 16:9, 220 cd/m², 500:1, Intel Core i5-2410M (3M Cache, 2.30 GHz), 6GB DDR3, 750GB HDD, Blu-Ray DVD Combo, Intel HD 3000, AMD Radeon HD 6650M 1GB DDR3, Fast Ethernet, 802.11b/g/n, Bluetooth 2.1+EDR, 2MP Webcam, 4 x USB 2.0, D-Sub, HDMI, 90 W, 3000 g, Black/Brown, Windows 7 Home Premium 64-bit

Lenovo Essential G770. Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-2410M, Processor frequency: 2.3 GHz. Display diagonal: 43.9 cm (17.3"), HD type: HD+, Display resolution: 1600 x 900 pixels. Internal memory: 6 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 750 GB, Storage media: HDD, Optical drive type: Blu-Ray DVD Combo. On-board graphics card model: Intel® HD Graphics 3000. Operating system installed: Windows 7 Home Premium. Product color: Black, Brown



Design		Keyboard	
Product color *	Black, Brown	Pointing device	Touchpad
Form factor *	Clamshell	Numeric keypad *	✓
Display		Full-size keyboard	✓
Display diagonal *	43.9 cm (17.3")	Windows keys	✓
Display resolution *	1600 x 900 pixels	Software	
Touchscreen *	✗	Operating system architecture	64-bit
HD type	HD+	Operating system installed *	Windows 7 Home Premium
LED backlight	✓	Processor special features	
Native aspect ratio	16:9	Intel® Wireless Display (Intel® WiDi)	✓
Display brightness	220 cd/m ²	Intel® My WiFi Technology (Intel® MWT)	✓
Contrast ratio (typical)	500:1	Intel® Anti-Theft Technology (Intel® AT)	✓
Processor		Intel® Identity Protection Technology (Intel® IPT)	✓
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor family *	Intel® Core™ i5	Intel® Turbo Boost Technology	2.0
Processor generation	2nd gen Intel® Core™ i5	Enhanced Intel SpeedStep Technology	✓
Processor model *	i5-2410M	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor cores	2	Intel Clear Video Technology	✗
Processor threads	4	Intel® InTru™ 3D Technology	✓
Processor boost frequency	2.9 GHz	Intel® Insider™	✗
Processor frequency *	2.3 GHz	Intel® Quick Sync Video Technology	✓
System bus rate	5 GT/s	Intel Flex Memory Access	✓
Processor cache	3 MB	Intel® Smart Cache	✓
Processor cache type	Smart Cache		
Processor socket	BGA 1023		
Processor lithography	32 nm		
Processor operating modes	64-bit		
Processor series	Intel Core i5-2400 Mobile Series		
Processor codename	Sandy Bridge		
Bus type	DMI		

Processor		Processor special features	
FSB Parity	✗	Intel® AES New Instructions (Intel® AES-NI)	✗
Stepping	J1	Intel Trusted Execution Technology	✗
Thermal Design Power (TDP)	35 W	Intel Enhanced Halt State	✓
Tjunction	100 °C	Intel VT-x with Extended Page Tables (EPT)	✓
Maximum number of PCI Express lanes	16	Intel Demand Based Switching	✗
PCI Express slots version	2.0	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
PCI Express configurations	1x8, 1x16, 2x4, 2x8	Intel 64	✓
CPU multiplier (bus/core ratio)	23	Execute Disable Bit	✓
ECC supported by processor	✗	Idle States	✓
Memory		Thermal Monitoring Technologies	✓
Internal memory *	6 GB	Processor package size	37.5x37.5 (rPGA988B); 31 x 24 (BGA1023)
Internal memory type	DDR3-SDRAM	Supported instruction sets	AVX
Memory clock speed	1333 MHz	Embedded options available	✗
Memory layout (slots x size)	1 x 2 + 1 x 4 GB	Graphics & IMC lithography	32 nm
Memory slots	2x SO-DIMM	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Maximum internal memory *	8 GB	Intel Identity Protection Technology version	1.00
Storage		Intel Virtualization Technology (VT-x)	✓
Total storage capacity *	750 GB	Intel Dual Display Capable Technology	✓
Storage media *	HDD	Intel FDI Technology	✓
Number of HDDs installed	1	Intel Rapid Storage Technology	✗
HDD capacity	750 GB	Intel Fast Memory Access	✓
HDD interface	SATA	Processor ARK ID	52224
HDD speed	5400 RPM	Conflict-Free processor	✗
HDD size	2.5"	Integrated 4G WiMAX	✓
Optical drive type *	Blu-Ray DVD Combo	Battery	
Card reader integrated	✓	Battery technology	Lithium-Ion (Li-Ion)
Compatible memory cards	Memory Stick (MS), MMC, MS PRO, SD, xD	Number of battery cells	6
Graphics		Battery life (max)	4.5 h
Discrete graphics card model *	AMD Radeon HD 6650M	Power	
Discrete graphics memory type	GDDR3	AC adapter power	90 W
On-board graphics card *	✓	Power auto-sensing	✓
Discrete graphics card *	✓	DC-in jack	✓
On-board graphics card family	Intel® HD Graphics	Security	
On-board graphics card model *	Intel® HD Graphics 3000	Cable lock slot	✓
On-board graphics card base frequency	650 MHz	Password protection type	HDD, Supervisor, User
On-board graphics card dynamic frequency (max)	1200 MHz	Certificates	
On-board graphics card ID	0x116	Compliance certificates	RoHS
Number of discrete graphics cards	1	Sustainability	
Audio		Sustainability certificates	EPEAT Gold, ENERGY STAR
Audio system	Conexant CX20671	Weight & dimensions	
Built-in speaker(s)	✓	Width	416 mm
Number of built-in speakers	2	Depth	272 mm
Speaker power	2 W	Height (front)	3.61 cm
Built-in microphone	✓	Height (rear)	4.49 cm
Optical drive		Width (imperial)	41.6 cm (16.4")
Labelflash	✗	Depth (imperial)	27.2 cm (10.7")
Network		Height (front) (imperial)	3.61 cm (1.42")
Wi-Fi	✓	Height (rear) (imperial)	4.5 cm (1.77")
Networking features	Fast Ethernet		
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)		
Wi-Fi data rate (max)	150 Mbit/s		
Ethernet LAN	✓		
Ethernet LAN data rates	10,100 Mbit/s		

Network		Weight & dimensions	
Bluetooth	✓	Weight *	3 kg
Bluetooth version	2.1+EDR	Packaging content	
Cabling technology	10/100Base-T(X)	AC adapter included *	✓
Network connection type	RJ-45	Cables included	AC
Ports & interfaces		Manual	✓
USB 2.0 ports quantity *	4	Quick start guide	✓
Ethernet LAN (RJ-45) ports	1	Other features	
HDMI ports quantity *	1	LightScribe	✗
DVI port	✗	Infrared data port	✗
VGA (D-Sub) ports quantity	1	Graphics card family	AMD, Intel
Headphone outputs	1	3D	✗
S/PDIF out port	✗	Swivel webcam	✗
Microphone in	✓	Display	TFT
ExpressCard slot	✗	Power supply type	AC/DC
CardBus PCMCIA slot type	✗	Compliance industry standards	IEEE 802.3, IEEE 802.3u
SmartCard slot	✗	Wake-on-LAN ready	✓
Headphone connectivity	3.5 mm	Ethernet interface type	Fast Ethernet
Microphone connectivity	3.5 mm	Plug and Play	✓
TV-out	✗	Volume control	Digital
Performance		HD-Ready	✓
Motherboard chipset	Intel® HM65 Express		



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