



Lenovo Essential B470 Intel® Core™ i3 i3-2330M 35.6 cm (14") 2 GB DDR3-SDRAM 500 GB HDD Intel DOS

Brand : Lenovo Series : Essential Model : 59-312017
Product : B470

Lenovo Essential B470. Processor: Intel® Core™ i3, Model: i3-2330M, Frequency: 2.2 GHz. Display: 35.6 cm (14"), Resolution: 1366 x 768 pixels. Memory: 2 GB, Type: DDR3-SDRAM. Storage: 500 GB, Type: HDD, Interface: DVD±RW. Operating system: Intel® HD Graphics 3000. Operating system: DOS. Weight: 2.2 kg



Design		Ports & interfaces	
Product colour *	Black	ExpressCard slot	✗
Form factor *	Clamshell	CardBus PCMCIA slot type	✗
Housing material	Polycarbonate (PC)	SmartCard slot	✗
Display		Keyboard	
Display diagonal *	35.6 cm (14")	Pointing device	Touchpad
Display resolution *	1366 x 768 pixels	Numeric keypad *	✗
LED backlight	✓	Software	
Native aspect ratio	16:9	Operating system installed *	FreeDOS
Dual-screen	✗	Processor special features	
Processor		Intel® Wireless Display (Intel® WiDi)	✓
Processor manufacturer *	Intel	Intel® My WiFi Technology (Intel® MWT)	✓
Processor family *	Intel® Core™ i3	Intel® Anti-Theft Technology (Intel® AT)	✓
Processor generation	2nd gen Intel® Core™ i3	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor model *	i3-2330M	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cores	2	Intel® Turbo Boost Technology	✗
Processor threads	4	Enhanced Intel SpeedStep Technology	✓
Processor frequency *	2.2 GHz	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
System bus rate	5 GT/s	Intel Clear Video Technology	✗
Processor cache	3 MB	Intel® InTru™ 3D Technology	✓
Processor cache type	L3	Intel® Insider™	✓
Processor socket	BGA 1023	Intel® Quick Sync Video Technology	✓
Processor lithography	32 nm	Intel Flex Memory Access	✓
Processor operating modes	64-bit	Intel® Smart Cache	✓
Processor series	Intel Core i3-2300 Mobile Series	Intel® AES New Instructions (Intel® AES-NI)	✗
Processor codename	Sandy Bridge	Intel Trusted Execution Technology	✗
Bus type	DMI		
FSB Parity	✗		
Stepping	J1		
Thermal Design Power (TDP)	35 W		
Tjunction	85C ; 100C		
Maximum number of PCI Express lanes	16		
PCI Express slots version	2.0		

Processor		Processor special features	
PCI Express configurations	1x16, 2x8	Intel Enhanced Halt State	✓
Number of processors supported	1	Intel VT-x with Extended Page Tables (EPT)	✓
CPU multiplier (bus/core ratio)	22	Intel Demand Based Switching	✗
ECC supported by processor	✗	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Memory		Intel 64	✓
Internal memory *	2 GB	Execute Disable Bit	✓
Internal memory type	DDR3-SDRAM	Idle States	✓
Maximum internal memory *	8 GB	Thermal Monitoring Technologies	✓
Storage		Processor package size	37.5 x 37.5 (rPGA988B); 31 x 24 (BGA1023)
Total storage capacity *	500 GB	Supported instruction sets	AVX
Storage media *	HDD	Processor code	SR04J
Number of HDDs installed	1	CPU configuration (max)	1
HDD capacity	500 GB	Embedded options available	✗
HDD interface	SATA	Graphics & IMC lithography	32 nm
Optical drive type *	DVD±RW	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Card reader integrated	✓	Intel Identity Protection Technology version	1.00
Compatible memory cards	Memory Stick (MS), MMC, MS PRO, SD, SDHC, xD	Intel Virtualization Technology (VT-x)	✓
Graphics		Intel Dual Display Capable Technology	✓
Discrete graphics card model *	Not available	Intel FDI Technology	✓
On-board graphics card *	✓	Intel Rapid Storage Technology	✗
Discrete graphics card *	✗	Intel Fast Memory Access	✓
On-board graphics card family	Intel® HD Graphics	Processor ARK ID	53434
On-board graphics card model *	Intel® HD Graphics 3000	Conflict-Free processor	✗
On-board graphics card base frequency	650 MHz	Integrated 4G WiMAX	✓
On-board graphics card dynamic frequency (max)	1100 MHz	Battery	
On-board graphics card ID	0x116	Battery technology	Lithium-Ion (Li-Ion)
Audio		Number of battery cells	6
Audio system	HD	Battery life (max)	6 h
Number of built-in speakers	2	Power	
Speaker power	1.5 W	DC-in jack	✓
Built-in microphone	✓	Security	
Camera		Cable lock slot	✗
Front camera resolution (numeric)	0.3 MP	Fingerprint reader	✓
Network		Weight & dimensions	
Wi-Fi	✓	Width	340 mm
Networking features	Fast Ethernet	Depth	234.6 mm
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)	Height (front)	2.34 cm
Ethernet LAN	✓	Height (rear)	3.36 cm
Ethernet LAN data rates	10,100 Mbit/s	Weight *	2.2 kg
Bluetooth	✓	Packaging content	
Ports & interfaces		AC adapter included *	✓
USB 2.0 ports quantity *	3	Other features	
eSATA/USB 2.0 ports quantity	1	Infrared data port	✗
Ethernet LAN (RJ-45) ports	1	Graphics card family	Intel
HDMI ports quantity *	1	Display	LCD
DVI port	✗		
VGA (D-Sub) ports quantity	1		
Headphone outputs	1		
S/PDIF out port	✗		
Microphone in	✓		

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