

**Fujitsu LIFEBOOK A531 Intel® Core™ i5 i5-2430M 39,6 cm (15.6")  
4 GB DDR3-SDRAM 500 GB HDD Windows 7 Professional** □□□□,  
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**Brand :** Fujitsu

**Product family:** LIFEBOOK

**Product code:**  
VFY:A5310MP403DE

**Product name :** A531



Design		Software	
Product colour *	Black, Silver	Operating system architecture	64-bit
Display		Drivers included	✓
Display diagonal *	39.6 cm (15.6")	Pre-installed software	Adobe Acrobat Reader, CyberLink YouCam, EasyGuide, Nero Essentials S, Norton Internet Security, Microsoft Office Starter
Display resolution *	1366 x 768 pixels		
Touchscreen *	✗	Trial software	Norton Internet Security
LED backlight	✓	Operating system installed *	Windows 7 Professional
Native aspect ratio	16:9	Processor special features	
Display surface	Matt	Intel® Wireless Display (Intel® WiDi)	✓
Display brightness	220 cd/m²	Intel® My WiFi Technology (Intel® MWT)	✓
Contrast ratio (typical)	400:1	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 *	i5-2430M	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	3 GHz	Intel® Insider™	✓
Processor frequency *	2.4 GHz	Intel® Quick Sync Video Technology	✓
System bus rate	5 GT/s	Intel Flex Memory Access	✓
Processor cache	3 MB		
Processor cache type	Smart Cache		
Processor socket	Socket 988		
Processor lithography	32 nm		
Processor operating modes	64-bit		
Processor series	Intel Core i5-2400 Mobile Series		

Processor		Processor special features	
Processor codename	Sandy Bridge	Intel® Smart Cache	✓
Bus type	DMI	Intel® AES New Instructions (Intel® AES-NI)	✓
FSB Parity	✗	Intel Trusted Execution Technology	✗
Stepping	J1	Intel Enhanced Halt State	✓
Thermal Design Power (TDP)	35 W	Intel VT-x with Extended Page Tables (EPT)	✓
Tjunction	100 °C	Intel Demand Based Switching	✗
Maximum number of PCI Express lanes	16	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
PCI Express slots version	2.0	Intel 64	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Execute Disable Bit	✓
CPU multiplier (bus/core ratio)	24	Idle States	✓
ECC supported by processor	✗	Thermal Monitoring Technologies	✓
Memory		Processor package size	37.5x37.5 (rPGA988B); 31 x 24 (BGA1023)
Internal memory *	4 GB	Supported instruction sets	AVX
Internal memory type	DDR3-SDRAM	Processor code	SR04W
Memory clock speed	1333 MHz	CPU configuration (max)	1
Memory slots	2x SO-DIMM	Embedded options available	✗
Memory slots (available)	1	Graphics & IMC lithography	32 nm
Maximum internal memory *	8 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Storage		Intel Identity Protection Technology version	1.00
Total storage capacity *	500 GB	Intel Virtualization Technology (VT-x)	✓
Storage media *	HDD	Intel Dual Display Capable Technology	✓
Number of HDDs installed	1	Intel FDI Technology	✓
HDD capacity	500 GB	Intel Rapid Storage Technology	✗
HDD interface	SATA	Intel Fast Memory Access	✓
HDD speed	5400 RPM	Processor ARK ID	53450
Optical drive type *	DVD Super Multi	Conflict-Free processor	✗
Card reader integrated	✓	Integrated 4G WiMAX	✓
Compatible memory cards	Memory Stick (MS), MS PRO, SD, SDHC	Battery	
Graphics		Number of battery cells	6
Discrete graphics card model *	Not available	Battery capacity	4400 mAh
On-board graphics card *	✓	Battery capacity *	48 Wh
Discrete graphics card *	✗	Battery life (max)	6 h
On-board graphics card family	Intel® HD Graphics	Power	
On-board graphics card model *	Intel® HD Graphics 3000	AC adapter power	65 W
On-board graphics card memory	1.695 GB	AC adapter input voltage	100 - 240 V
On-board graphics card base frequency	650 MHz	AC adapter output current	3.25 A
On-board graphics card dynamic frequency (max)	1200 MHz	AC adapter output voltage	20 V
On-board graphics card ID	0x116	DC-in jack	✓
Maximum resolution	1920 x 1200 pixels	Security	
Audio		Cable lock slot	✓
Audio system	Realtek ALC269 HD	Cable lock slot type	Kensington
Number of built-in speakers	2	Fingerprint reader	✗
Built-in subwoofer	✗	Trusted Platform Module (TPM)	✗
Built-in microphone	✓	Password protection type	BIOS, HDD
Camera		Operational conditions	
Front camera resolution (numeric)	1.3 MP	Operating temperature (T-T)	5 - 35 °C
Network		Storage temperature (T-T)	-15 - 60 °C
Wi-Fi	✓	Operating relative humidity (H-H)	20 - 85%
Networking features	Gigabit Ethernet		
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)		
Ethernet LAN	✓		
Bluetooth	✓		
Bluetooth version	2.1+EDR		

Network		Certificates	
Cabling technology	10/100/1000Base-T(X)	Wi-Fi certified	✓
Ports & interfaces		Certification	CE Marking, R&TTE, ENERGY STAR 5.0, RoHS, GOST
USB 2.0 ports quantity *	3	Weight & dimensions	
Ethernet LAN (RJ-45) ports	1	Width	378 mm
HDMI ports quantity *	1	Depth	252 mm
DVI port	✗	Height	36.5 mm
VGA (D-Sub) ports quantity	1	Weight *	2.5 kg
Headphone outputs	1	Packaging content	
S/PDIF out port	✗	AC adapter included *	✓
Microphone in	✓	Remote control included	✗
Docking connector	✗	Other features	
ExpressCard slot	✓	Infrared data port	✗
CardBus PCMCIA slot type	✗	Graphics card family	Intel
SmartCard slot	✗	Display	TFT
TV-out	✗	Power supply type	AC/DC
Performance		Compliance industry standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
Motherboard chipset	Intel® HM65 Express	Compatible operating systems	Microsoft Windows 7 Home Premium 64-bit, Windows 7 Home Basic (EM) 64-bit, Windows 7 Starter 32-bit
Keyboard		External display	✗
Keyboard keystroke	1.8 mm	Internal modem	✗
Keyboard key pitch	1.98 cm	TV tuner integrated	✗
Pointing device	Touchpad		
Numeric keypad *	✓		
Keyboard backlit	✗		
Spill-resistant keyboard	✓		
Full-size keyboard	✓		
Keyboard number of keys	106		
Windows keys	✓		
Keyboard layout	QWERTZ		

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