



Lenovo IdeaPad Z500 Intel® Core™ i7 i7-3520M Laptop 39,6 cm (15.6") 8 GB DDR3-SDRAM 1 TB HDD Wi-Fi 4 (802.11n) Windows 8 White

Brand : Lenovo

Product family: IdeaPad

Product code: MBYPUFR

Product name : Z500

15.6", 1366x768, 16:9, Intel Core i7-3520M, DDR3 8GB, HDD 1TB (5400RPM), Intel HD Graphics 4000, DVD+/-RW, Webcam, Fast Ethernet, Wi-Fi, Windows 8 (64-bit)

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15.6" Multimedia Laptop

The IdeaPad Z500 laptop changes the way you interact with your notebook PC. Carrying your entertainment hub with you has never been easier with the IdeaPad Z500 laptop. Great multimedia performance powered by Intel Core processors, surprising affordability, and bold style all combine to keep you smiling.

- Dolby Home Theater v4, with specialized stereo speakers with extra bass;
- Intelligent Touchpad optimized for Windows 8;
- Integrated 720p HD webcam and a dual digital array microphone for crystal clear webchat;
- HDMI out, two USB 2.0 ports, one USB 3.0 port;
- Lenovo Energy Management minimizes power use and protects battery life.



Design		Ports & interfaces	
Product type *	Laptop	Microphone connectivity	3.5 mm
Product colour *	White	Keyboard	
Form factor *	Clamshell	Pointing device	Touchpad
Display		Numeric keypad *	✓
Display diagonal *	39,6 cm (15.6")	Windows keys	✓
Display resolution *	1366 x 768 pixels	Software	
Touchscreen *	✗	Operating system architecture	64-bit
LED backlight	✓	Drivers included	✓
Native aspect ratio	16:9	Operating system installed *	Windows 8
Display brightness	220 cd/m²	Processor special features	
Processor		Intel® Wireless Display (Intel® WiDi)	✓
Processor manufacturer *	Intel	Intel® My WiFi Technology (Intel® MWT)	✓
Processor family *	Intel® Core™ i7	Intel Smart Connect Technology	✗
Processor generation	3rd gen Intel® Core™ i7	Intel® Anti-Theft Technology (Intel® AT)	✓
Processor model *	i7-3520M	Intel® Rapid Start Technology	✗
Processor cores	2	Intel® Smart Response Technology	✗
Processor threads	4	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor boost frequency	3,6 GHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor frequency *	2,9 GHz	Intel® Turbo Boost Technology	2.0
System bus rate	5 GT/s	Intel® Small Business Advantage (Intel® SBA)	✗
Processor cache	4 MB	Enhanced Intel SpeedStep Technology	✓
Processor cache type	Smart Cache	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor socket	BGA 1023	Intel Clear Video Technology	✗
Processor lithography	22 nm	Intel® InTru™ 3D Technology	✓
Processor operating modes	64-bit	Intel® Insider™	✓
Processor series	Intel Core i7-3500 Mobile series		
Processor codename	Ivy Bridge		
Bus type	DMI		
FSB Parity	✗		
Stepping	L1		
Thermal Design Power (TDP)	35 W		
Tjunction	105 °C		

Processor		Processor special features	
Maximum number of PCI Express lanes	16	Intel® Quick Sync Video Technology	✓
PCI Express slots version	3.0	Intel Flex Memory Access	✓
PCI Express configurations	1x8, 1x16, 2x4, 2x8	Intel® Smart Cache	✓
CPU multiplier (bus/core ratio)	29	Intel® AES New Instructions (Intel® AES-NI)	✓
ECC supported by processor	✗	Intel Trusted Execution Technology	✓
Memory		Intel Enhanced Halt State	✓
Internal memory *	8 GB	Intel VT-x with Extended Page Tables (EPT)	✓
Internal memory type	DDR3-SDRAM	Intel Demand Based Switching	✗
Memory slots	2x SO-DIMM	Intel® Secure Key	✓
Maximum internal memory *	16 GB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Storage		Intel 64	✓
Total storage capacity *	1 TB	Execute Disable Bit	✓
Storage media *	HDD	Idle States	✓
Number of hard drives installed	1	Thermal Monitoring Technologies	✓
Hard drive capacity	1 TB	Processor package size	37.5 x 37.5 (rPGA988B); 31.0 x 24.0 (BGA1023)
Hard drive speed	5400 RPM	Supported instruction sets	AVX
Hard drive size	2.5"	Processor code	SR0MU
Optical drive type *	DVD±RW	CPU configuration (max)	1
Card reader integrated	✓	Embedded options available	✗
Compatible memory cards	MMC, SD	Graphics & IMC lithography	22 nm
Graphics		Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card *	✓	Intel Identity Protection Technology version	1,00
On-board graphics card family	Intel® HD Graphics	Intel Secure Key Technology version	1,00
On-board graphics card model *	Intel® HD Graphics 4000	Intel Virtualization Technology (VT-x)	✓
On-board graphics card base frequency	650 MHz	Intel Dual Display Capable Technology	✓
On-board graphics card dynamic frequency (max)	1250 MHz	Intel FDI Technology	✓
On-board graphics card ID	0x166	Intel Rapid Storage Technology	✗
Audio		Intel Fast Memory Access	✓
Audio system	HD	Processor ARK ID	64893
Number of built-in speakers	2	Conflict-Free processor	✓
Built-in microphone	✓	Integrated 4G WiMAX	✓
Camera		Battery	
Front camera	✓	Number of battery cells	4
Front camera resolution	1280 x 720 pixels	Battery life (max)	3 h
Network		Power	
Wi-Fi	✓	DC-in jack	✓
Top Wi-Fi standard *	Wi-Fi 4 (802.11n)	Security	
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)	Cable lock slot	✓
Ethernet LAN	✓	Cable lock slot type	Kensington
Ethernet LAN data rates	10,100 Mbit/s	Weight & dimensions	
Bluetooth	✗	Width	375 mm
Data network	Not supported	Depth	263 mm
Cabling technology	10/100Base-T(X)	Height (rear)	2,54 cm
4G WiMAX	✗	Weight *	2,2 kg
Ports & interfaces		Packaging content	
USB 2.0 ports quantity *	2	AC adapter included *	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1	Cables included	AC
Ethernet LAN (RJ-45) ports	1		
HDMI ports quantity *	1		
DVI port	✗		
VGA (D-Sub) ports quantity	1		
S/PDIF out port	✗		

Ports & interfaces		Other features	
Microphone in	✗	64-bit computing	✓
Combo headphone/mic port	✓		
Docking connector	✗		
ExpressCard slot	✗		
CardBus PCMCIA slot type	✗		
SmartCard slot	✗		
Headphone connectivity	3.5 mm		

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