



## 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		Keyboard	
Product type *	Laptop	Pointing device	Touchpad
Product colour *	White	Numeric keypad *	✓
Form factor *	Clamshell	Windows keys	✓
Display		Software	
Display diagonal *	39,6 cm (15.6")	Operating system architecture	64-bit
Display resolution *	1366 x 768 pixels	Drivers included	✓
Touchscreen *	✗	Operating system installed *	Windows 8
LED backlight	✓	Processor special features	
Native aspect ratio	16:9	Intel® Wireless Display (Intel® WiDi)	✓
Display brightness	220 cd/m²	Intel® My WiFi Technology (Intel® MWT)	✓
Processor		Intel Smart Connect Technology	✗
Processor manufacturer *	Intel	Intel® Anti-Theft Technology (Intel® AT)	✓
Processor family *	Intel® Core™ i7	Intel® Rapid Start Technology	✗
Processor generation	3rd gen Intel® Core™ i7	Intel® Smart Response Technology	✗
Processor model *	i7-3520M	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor cores	2	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor threads	4	Intel® Turbo Boost Technology	2.0
Processor boost frequency	3,6 GHz	Intel® Small Business Advantage (Intel® SBA)	✗
Processor frequency *	2,9 GHz	Enhanced Intel SpeedStep Technology	✓
System bus rate	5 GT/s	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor cache	4 MB	Intel Clear Video Technology	✗
Processor cache type	Smart Cache	Intel® InTru™ 3D Technology	✓
Processor socket	BGA 1023	Intel® Insider™	✓
Processor lithography	22 nm	Intel® Quick Sync Video Technology	✓
Processor operating modes	64-bit	Intel Flex Memory Access	✓
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® Smart Cache	✓
PCI Express slots version	3.0	Intel® AES New Instructions (Intel® AES-NI)	✓
PCI Express configurations	1x8, 1x16, 2x4, 2x8	Intel Trusted Execution Technology	✓
CPU multiplier (bus/core ratio)	29	Intel Enhanced Halt State	✓
ECC supported by processor	✗	Intel VT-x with Extended Page Tables (EPT)	✓
Memory		Intel Demand Based Switching	✗
Internal memory *	8 GB	Intel® Secure Key	✓
Internal memory type	DDR3-SDRAM	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Memory slots	2x SO-DIMM	Intel 64	✓
Maximum internal memory *	16 GB	Execute Disable Bit	✓
Storage		Idle States	✓
Total storage capacity *	1 TB	Thermal Monitoring Technologies	✓
Storage media *	HDD	Processor package size	37.5 x 37.5 (rPGA988B); 31.0 x 24.0 (BGA1023)
Number of HDDs installed	1	Supported instruction sets	AVX
HDD capacity	1 TB	Processor code	SR0MU
HDD speed	5400 RPM	CPU configuration (max)	1
HDD size	2.5"	Embedded options available	✗
Optical drive type *	DVD±RW	Graphics & IMC lithography	22 nm
Card reader integrated	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Compatible memory cards	MMC, SD	Intel Identity Protection Technology version	1,00
Graphics		Intel Secure Key Technology version	1,00
On-board graphics card *	✓	Intel Virtualization Technology (VT-x)	✓
On-board graphics card family	Intel® HD Graphics	Intel Dual Display Capable Technology	✓
On-board graphics card model *	Intel® HD Graphics 4000	Intel FDI Technology	✓
On-board graphics card base frequency	650 MHz	Intel Rapid Storage Technology	✗
On-board graphics card dynamic frequency (max)	1250 MHz	Intel Fast Memory Access	✓
On-board graphics card ID	0x166	Processor ARK ID	64893
Audio		Conflict-Free processor	✓
Audio system	HD	Integrated 4G WiMAX	✓
Number of built-in speakers	2	Battery	
Built-in microphone	✓	Number of battery cells	4
Camera		Battery life (max)	3 h
Front camera	✓	Power	
Front camera resolution	1280 x 720 pixels	DC-in jack	✓
Network		Security	
Wi-Fi	✓	Cable lock slot	✓
Top Wi-Fi standard *	Wi-Fi 4 (802.11n)	Cable lock slot type	Kensington
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)	Weight & dimensions	
Ethernet LAN	✓	Width	375 mm
Ethernet LAN data rates	10,100 Mbit/s	Depth	263 mm
Bluetooth	✗	Height (rear)	2,54 cm
Data network	Not supported	Weight *	2,2 kg
Cabling technology	10/100Base-T(X)	Packaging content	
4G WiMAX	✗	AC adapter included *	✓
Ports & interfaces		Cables included	AC
USB 2.0 ports quantity *	2	Other features	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1	64-bit computing	✓
Ethernet LAN (RJ-45) ports	1		
HDMI ports quantity *	1		
DVI port	✗		
VGA (D-Sub) ports quantity	1		
S/PDIF out port	✗		

Ports & interfaces

Microphone in	✗
Combo headphone/mic port	✓
Docking connector	✗
ExpressCard slot	✗
CardBus PCMCIA slot type	✗
SmartCard slot	✗
Headphone connectivity	3.5 mm
Microphone connectivity	3.5 mm

## Catalog Object Cloud



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