



## Lenovo IdeaPad Z70-80 Intel® Core™ i7 i7-5500U Laptop 43,9 cm (17.3") Full HD 8 GB DDR3L-SDRAM 1 TB Hybrid-HDD NVIDIA® GeForce® 840M Windows 8.1 Black

**Brand :** Lenovo

**Product family:** IdeaPad

**Product code:** 80FG0039MT

**Product name :** Z70-80



Intel Core i7-5500U (2.4 GHz), 8GB RAM, 1000GB SSHD, 17.3" FHD LED (1920x1080), Intel HD Graphics 5500 + NVIDIA GeForce 840M, Windows 8.1 64

Lenovo IdeaPad Z70-80. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-5500U, Processor frequency: 2,4 GHz. Display diagonal: 43,9 cm (17.3"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 8 GB, Internal memory type: DDR3L-SDRAM. Total storage capacity: 1 TB, Storage media: Hybrid-HDD, Optical drive type: DVD±RW. Operating system installed: Windows 8.1. Product colour: Black

Design		Ports & interfaces	
Product type *	Laptop	CardBus PCMCIA slot type	✗
Product colour *	Black	SmartCard slot	✗
Form factor *	Clamshell	<b>Keyboard</b>	
Market positioning	Business	Pointing device	Touchpad
Display		Numeric keypad *	✓
Display diagonal *	43,9 cm (17.3")	Full-size keyboard	✓
Display resolution *	1920 x 1080 pixels	Windows keys	✓
Touchscreen *	✗	Software	
HD type	Full HD	Operating system architecture	64-bit
LED backlight	✓	Operating system installed *	Windows 8.1
Native aspect ratio	16:9	Processor special features	
Dual-screen	✗	Intel® Wireless Display (Intel® WiDi)	✓
Processor		Intel® My WiFi Technology (Intel® MWT)	✗
Processor manufacturer *	Intel	Intel® Anti-Theft Technology (Intel® AT)	✗
Processor family *	Intel® Core™ i7	Intel® Smart Response Technology	✓
Processor generation	5th gen Intel® Core™ i7	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor model *	i7-5500U	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cores	2	Intel® Turbo Boost Technology	2.0
Processor threads	4	Intel® Small Business Advantage (Intel® SBA)	✓
Processor boost frequency	3 GHz	Enhanced Intel SpeedStep Technology	✓
Processor frequency *	2,4 GHz	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
System bus rate	5 GT/s	Intel Clear Video Technology	✓
Processor cache	4 MB	Intel® InTru™ 3D Technology	✓
Processor cache type	L3	Intel® Insider™	✓
Processor socket	BGA 1168	Intel® Quick Sync Video Technology	✓
Processor lithography	14 nm	Intel Flex Memory Access	✓
Processor operating modes	32-bit, 64-bit		
Processor series	Intel Core i7-5500 Mobile Series		
Processor codename	Broadwell		
Bus type	DMI2		
FSB Parity	✗		
Stepping	F0		
Thermal Design Power (TDP)	15 W		

Processor		Processor special features	
Configurable TDP-down	7,5 W	Intel® Smart Cache	✓
Configurable TDP-down frequency	0,6 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
Tjunction	105 °C	Intel Trusted Execution Technology	✗
Maximum number of PCI Express lanes	12	Intel Enhanced Halt State	✓
PCI Express slots version	2.0	Intel VT-x with Extended Page Tables (EPT)	✓
PCI Express configurations	4x1, 2x4	Intel Demand Based Switching	✗
ECC supported by processor	✗	Intel® Secure Key	✓
Memory		Intel TSX-NI	✗
Internal memory *	8 GB	Intel Stable Image Platform Program (SIPP)	✗
Internal memory type	DDR3L-SDRAM	Intel® OS Guard	✓
Memory clock speed	1600 MHz	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Memory form factor	SO-DIMM	Intel 64	✓
Memory slots	2x SO-DIMM	Execute Disable Bit	✓
Maximum internal memory *	16 GB	Idle States	✓
Storage		Thermal Monitoring Technologies	✓
Total storage capacity *	1 TB	Processor package size	40 x 24 x 1.3 mm
Storage media *	Hybrid-HDD	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Hard drive speed	5400 RPM	Processor code	SR23W
Hybrid hard drive (H-HDD) capacity	1 TB	CPU configuration (max)	1
Hybrid hard drive (H-HDD) cache memory	8 GB	Embedded options available	✗
Hard drive size	2.5"	Graphics & IMC lithography	14 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	MMC, SD	Intel Smart Response Technology version	1,00
Graphics		Intel Stable Image Platform Program (SIPP) version	0,00
Discrete graphics card model *	NVIDIA® GeForce® 840M	Intel Secure Key Technology version	1,00
Discrete graphics card memory	2 GB	Intel Small Business Advantage (SBA) version	1,00
On-board graphics card *	✓	Intel TSX-NI version	0,00
Discrete 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 5500	Intel FDI Technology	✓
On-board graphics card base frequency	300 MHz	Intel Rapid Storage Technology	✗
On-board graphics card dynamic frequency (max)	950 MHz	Intel Fast Memory Access	✓
Maximum on-board graphics card memory	16 GB	Processor ARK ID	85214
On-board graphics card DirectX version	11.2	Conflict-Free processor	✓
On-board graphics card ID	0x1616	Battery	
Audio		Battery technology	Lithium Polymer (LiPo)
Audio system	Dolby Home Theater	Number of battery cells	4
Number of built-in speakers	2	Battery capacity *	41 Wh
Speakers manufacturer	JBL	Battery life (max)	4 h
Built-in microphone	✓	Power	
Camera		DC-in jack	✓
Front camera	✓	Security	
Front camera resolution	1280 x 720 pixels	Cable lock slot	✓
Network		Weight & dimensions	
Wi-Fi	✓	Width	418 mm
Wi-Fi standards	Wi-Fi 5 (802.11ac)	Depth	283 mm
Ethernet LAN	✓		
Ethernet LAN data rates	10,100,1000 Mbit/s		
Bluetooth	✓		
Bluetooth version	4.0		

Ports & interfaces		Weight & dimensions	
USB 2.0 ports quantity *	2	Height	25,2 mm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1	Weight *	3 kg
Ethernet LAN (RJ-45) ports	1	Packaging content	
HDMI ports quantity *	1	AC adapter included *	✓
DVI port	✗	Manual	✓
VGA (D-Sub) ports quantity	1	Power cord included	✓
Headphone outputs	1	Other features	
S/PDIF out port	✗	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Microphone in	✓		
Combo headphone/mic port	✓		
Docking connector	✗		
ExpressCard slot	✗		



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