



Lenovo IdeaPad Y50-70 Intel® Core™ i7 i7-4720HQ Laptop 39.6 cm (15.6") Full HD 16 GB DDR3L-SDRAM 1 TB Hybrid-HDD NVIDIA® GeForce® GTX 860M Windows 8.1 Black

Brand : Lenovo

Product family: IdeaPad

Product code: 59441402

Product name : Y50-70

15.6" LED Full HD 1920 x 1080, Intel Core i7-4720HQ (6M Cache, 2.6 GHz), 16GB DDR3L, nVidia GeForce GTX860M 4GB, 1000GB H-HDD, Gigabit Ethernet, WLAN, Bluetooth 4.0, Windows 8.1 64-bit + External DVD+/-RW

Lenovo IdeaPad Y50-70. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor: i7-4720HQ, Processor frequency: 2.6 GHz. Display diagonal: 39.6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 16 GB, Internal memory type: DDR3L-SDRAM. Total storage capacity: 1 TB, Storage media: Hybrid-HDD. On-board graphics card model: Intel® HD Graphics 4600. Operating system installed: Windows 8.1. Product colour: Black



Design		Ports & interfaces	
Product type *	Laptop	S/PDIF out port	✓
Product colour *	Black	Microphone in	✗
Form factor *	Clamshell	Combo headphone/mic port	✓
Market positioning	Gaming	Docking connector	✗
Display		ExpressCard slot	✗
Display diagonal *	39.6 cm (15.6")	CardBus PCMCIA slot type	✗
Display resolution *	1920 x 1080 pixels	SmartCard slot	✗
Touchscreen *	✗	USB Sleep-and-Charge	✓
HD type	Full HD	USB Sleep-and-Charge ports	1
Panel type	IPS	Performance	
LED backlight	✓	Chipset	Intel® HM87
Native aspect ratio	16:9	Keyboard	
Display surface	Gloss	Pointing device	Touchpad
Processor		Numeric keypad *	✓
Processor manufacturer *	Intel	Keyboard backlit	✓
Processor family *	Intel® Core™ i7	Windows keys	✓
Processor generation	4th gen Intel® Core™ i7	Software	
Processor *	i7-4720HQ	Operating system architecture	64-bit
Processor number of cores	4	Operating system installed *	Windows 8.1
Processor threads	8	Processor special features	
Processor boost frequency	3.6 GHz	Intel Wireless Display (WiDi) Technology	✓
Processor frequency *	2.6 GHz	Intel My WiFi Technology	✗
System bus data transfer rate	5 GT/s	Intel Anti-Theft Technology	✓
Processor cache	6 MB	Intel Identity Protection Technology	✓
Processor cache type	L3		
Processor socket	BGA 1364		
Processor lithography	22 nm		

Processor		Processor special features	
Processor operating modes	64-bit	Intel Hyper-Threading Technology	✓
Processor series	Intel Core i7-4700 Mobile series	Intel Turbo Boost Technology	✗
Processor codename	Haswell	Enhanced Intel SpeedStep Technology	✓
Bus type	DMI2	Intel® Built-in Visuals Technology	✓
FSB Parity	✗	Intel HD Graphics	✓
Stepping	C0	Intel Clear Video HD Technology	✓
Thermal Design Power (TDP)	47 W	Intel Clear Video Technology	✗
Tjunction	100 °C	Intel® InTru™ 3D Technology	✓
Maximum number of PCI Express lanes	16	Intel® Insider™	✓
PCI Express slots version	3.0	Intel® Quick Sync Video Technology	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel Flex Memory Access	✗
ECC supported by processor	✗	Intel® Smart Cache	✓
Memory		Intel AES New Instructions	✓
Internal memory *	16 GB	Intel Trusted Execution Technology	✗
Internal memory type	DDR3L-SDRAM	Intel Enhanced Halt State	✓
Memory clock speed	1600 MHz	Intel VT-x with Extended Page Tables (EPT)	✓
Memory form factor	SO-DIMM	Intel Demand Based Switching	✗
Memory layout (slots x size)	2 x 8 GB	Intel® Secure Key	✓
Memory slots	2x SO-DIMM	Intel TSX-NI	✗
Memory, maximum *	16 GB	Intel Clear Video Technology for MID	✗
Storage		Intel 64	✓
Total storage capacity *	1 TB	Execute Disable Bit	✓
Storage media *	Hybrid-HDD	Idle States	✓
Hybrid-HDD capacity	1 TB	Thermal Monitoring Technologies	✓
Hybrid-HDD cache memory	8 GB	Processor package size	37.5 x 32 x 1.6 mm
Hard drive size	2.5"	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Optical drive *	✗	Processor code	SR1Q8
Card reader integrated	✓	CPU configuration (max)	1
Compatible memory cards	MMC, SD, SDHC, SDXC	Embedded options available	✗
Graphics		Intel Virtualization Technology for Directed I/O (VT-d)	✓
Discrete graphics card model *	NVIDIA® GeForce® GTX 860M	Intel Identity Protection Technology version	1.00
Discrete graphics card memory	4 GB	Intel Secure Key Technology 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 4600	Intel FDI Technology	✓
On-board graphics card base frequency	400 MHz	Intel Rapid Storage Technology	✗
On-board graphics card dynamic frequency (max)	1200 MHz	Intel Fast Memory Access	✗
Maximum on-board graphics card memory	1.74 GB	Processor ARK ID	78934
On-board graphics card DirectX version	11.2/12	Conflict-Free processor	✓
On-board graphics card OpenGL version	4.3	Battery	
On-board graphics card ID	0x416	Number of battery cells	4
Graphics card Open GL support	✓	Battery life (max)	5 h
Audio		Power	
Audio system	Dolby Advanced Audio V2	DC-in jack	✓
Number of built-in speakers	2	Certificates	
Speakers manufacturer	JBL	Compliance certificates	RoHS
Built-in microphone	✓	Sustainability	
Camera		Sustainability certificates	EPEAT Gold, ENERGY STAR
Front camera	✓		
Network			
Wi-Fi	✓		

Network		Weight & dimensions	
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)	Width	387 mm
Ethernet LAN connection	✓	Depth	264 mm
Ethernet LAN data rates	10,100,1000 Mbit/s	Height (front)	1.55 cm
Bluetooth	✓	Height (rear)	2.3 cm
Bluetooth version	4.0	Weight *	2.4 kg
Ports & interfaces		Packaging content	
USB 2.0 ports quantity *	1	AC adapter included *	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Other features	
Ethernet LAN (RJ-45) ports	1	LightScribe	✗
HDMI ports quantity *	1		
DVI port	✗		

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