



Lenovo IdeaCentre K450 Intel® Core™ i7 i7-4770 16 GB DDR3-SDRAM 2 TB HDD NVIDIA® GeForce® GTX 660 Windows 8 Tower PC Black, Stainless steel

Brand : Lenovo

Product family: IdeaCentre

Product code: 57316348

Product name : K450

Core i7-4770 (8M Cache, 3.4GHz), 16GB DDR3, NVIDIA GeForce GTX 660 1.5GB, 2TB HDD, Gigabit Ethernet, Windows 8 64-Bit
Lenovo IdeaCentre K450. Processor frequency: 3,4 GHz, Processor family: Intel® Core™ i7, Processor model: i7-4770. Internal memory: 16 GB, Internal memory type: DDR3-SDRAM, Memory clock speed: 1600 MHz. Total storage capacity: 2 TB, Storage media: HDD, Optical drive type: DVD±RW. On-board graphics card model: Intel® HD Graphics 4600, Discrete graphics card model: NVIDIA® GeForce® GTX 660. Operating system installed: Windows 8, Operating system architecture: 64-bit. Chassis type: Tower. Product type: PC



Processor		Performance	
Processor manufacturer *	Intel	Product type *	PC
Processor family *	Intel® Core™ i7	Software	
Processor generation	4th gen Intel® Core™ i7	Operating system architecture	64-bit
Processor model *	i7-4770	Operating system installed *	Windows 8
Processor cores	4	Processor special features	
Processor threads	8	Intel® Wireless Display (Intel® WiDi)	✓
Processor boost frequency	3,9 GHz	Intel 64	✓
Processor frequency *	3,4 GHz	Enhanced Intel SpeedStep Technology	✓
Processor socket	LGA 1150 (Socket H3)	Embedded options available	✗
Processor cache	8 MB	Intel® InTru™ 3D Technology	✓
Processor cache type	Smart Cache	Intel® Insider™	✓
System bus rate	5 GT/s	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Bus type	DMI2	Intel Clear Video Technology	✗
FSB Parity	✗	Intel VT-x with Extended Page Tables (EPT)	✓
Processor lithography	22 nm	Intel TSX-NI	✗
Processor operating modes	64-bit	Idle States	✓
Processor series	Intel Core i7-4700 Desktop series	Thermal Monitoring Technologies	✓
Processor codename	Haswell	Intel Stable Image Platform Program (SIPP)	✓
Thermal Design Power (TDP)	84 W	Intel® AES New Instructions (Intel® AES-NI)	✓
Tcase	72,72 °C	Intel® Secure Key	✓
PCI Express slots version	3.0	Intel® OS Guard	✓
Maximum number of PCI Express lanes	16	Intel Trusted Execution Technology	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Execute Disable Bit	✓
Number of processors installed	1	Intel FDI Technology	✓
Number of QPI links	1	Intel Flex Memory Access	✗
Stepping	C0	Intel Fast Memory Access	✗
Maximum internal memory supported by processor	32 GB	Intel® Smart Cache	✓
Memory types supported by processor	DDR3-SDRAM	Intel Enhanced Halt State	✓
Memory clock speeds supported by processor	1333,1600 MHz	Intel Demand Based Switching	✗
Memory bandwidth supported by processor (max)	25,6 GB/s		
ECC supported by processor	✗		
Memory voltage supported by processor	1,5 V		

Memory		Processor special features	
Internal memory *	16 GB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Maximum internal memory *	32 GB	Processor package size	37.5 x 37.5 mm
Internal memory type	DDR3-SDRAM	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Memory slots	4x DIMM	Processor code	SR149
Memory clock speed	1600 MHz	Scalability	1S
Memory channels	Dual-channel	CPU configuration (max)	1
Storage		Graphics & IMC lithography	22 nm
Total storage capacity *	2 TB	Thermal solution specification	PCG 2013D
Storage media *	HDD	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Optical drive type *	DVD±RW	Intel Identity Protection Technology version	1,00
Card reader integrated	✓	Intel Stable Image Platform Program (SIPP) version	1,00
Compatible memory cards	CF, Memory Stick (MS), MicroDrive, MMC, MS PRO, SD, SDHC, SDXC	Intel Secure Key Technology version	1,00
Graphics		Intel Virtualization Technology (VT-x)	✓
On-board graphics card *	✓	Intel Small Business Advantage (SBA) version	1,00
Discrete graphics card model *	NVIDIA® GeForce® GTX 660	Intel TSX-NI version	0,00
Discrete graphics card memory	1,536 GB	Intel Dual Display Capable Technology	✗
On-board graphics card family	Intel® HD Graphics	Intel Rapid Storage Technology	✗
On-board graphics card model *	Intel® HD Graphics 4600	Processor ARK ID	75122
On-board graphics card base frequency	350 MHz	Intel® Turbo Boost Technology	2.0
On-board graphics card dynamic frequency (max)	1200 MHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Maximum on-board graphics card memory	2 GB	Intel® Quick Sync Video Technology	✓
Number of displays supported (on-board graphics)	3	Intel® My WiFi Technology (Intel® MWT)	✓
On-board graphics card DirectX version	11.2/12	Intel® Identity Protection Technology (Intel® IPT)	✓
On-board graphics card OpenGL version	4.3	Intel® Anti-Theft Technology (Intel® AT)	✓
On-board graphics card ID	0x412	Conflict-Free processor	✓
Network		Weight & dimensions	
Ethernet LAN *	✓	Width *	181 mm
Ethernet LAN data rates	10,100,1000 Mbit/s	Depth *	456,6 mm
Cabling technology	10/100/1000Base-T(X)	Height *	400 mm
Wi-Fi *	✗	Weight *	11,2 kg
Ports & interfaces		Packaging content	
USB 2.0 ports quantity *	6	Mouse included	✗
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Keyboard included	✗
VGA (D-Sub) ports quantity	1	Display	
DVI port	✓	Display included *	✗
HDMI ports quantity *	1	Other features	
Ethernet LAN (RJ-45) ports	1	Optical drives quantity	1
Microphone in	✓	Cooling type	Active
Headphone outputs	1		
Design			
Chassis type *	Tower		
Placement supported	Vertical		
Product colour *	Black, Stainless steel		

Catalog Object Cloud



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