



Lenovo ThinkCentre M82 Intel® Core™ i3 i3-3220 4 GB DDR3-SDRAM 500 GB Windows 7 Professional SFF PC Black

Brand : Lenovo

Product family: ThinkCentre

Article code: 3306F1U

Product name : M82

Lenovo ThinkCentre M82. Processor frequency: 3,3 GHz, Processor family: Intel® Core™ i3, Processor model: i3-3220. Internal memory: 4 GB, Internal memory type: DDR3-SDRAM, Memory clock speed: 1600 MHz. Total storage capacity: 500 GB, Optical drive type: DVD±RW. On-board graphics card model: Intel® HD Graphics 2500. Operating system installed: Windows 7 Professional, Operating system architecture: 64-bit. Power supply: 240 W. Chassis type: SFF. Product type: PC. Product color: Black



Processor		Performance	
Processor manufacturer *	Intel	Built-in speaker(s)	✓
Processor family *	Intel® Core™ i3	Product type *	PC
Processor generation	3rd gen Intel® Core™ i3	Software	
Processor model *	i3-3220	Operating system architecture	64-bit
Processor cores	2	Operating system installed *	Windows 7 Professional
Processor threads	4	Trial software	Norton Internet Security
Processor frequency *	3,3 GHz	Processor special features	
Processor socket	LGA 1155 (Socket H2)	Intel® Wireless Display (Intel® WiDi)	✓
Processor cache	3 MB	Intel 64	✓
Processor cache type	Smart Cache	Enhanced Intel SpeedStep Technology	✓
System bus rate	5 GT/s	Embedded options available	✓
Bus type	DMI	Intel® InTru™ 3D Technology	✓
FSB Parity	✗	Intel® Insider™	✓
Processor lithography	22 nm	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor operating modes	64-bit	Intel Clear Video Technology	✗
Processor series	Intel Core i3-3200 Desktop Series	Intel VT-x with Extended Page Tables (EPT)	✓
Processor codename	Ivy Bridge	Idle States	✓
Thermal Design Power (TDP)	55 W	Thermal Monitoring Technologies	✓
Tcase	65,3 °C	Intel® AES New Instructions (Intel® AES-NI)	✗
PCI Express slots version	2.0	Intel® Secure Key	✗
PCI Express configurations	1x16, 2x8	Intel Trusted Execution Technology	✗
Number of processors installed	1	Execute Disable Bit	✓
CPU multiplier (bus/core ratio)	33	Intel FDI Technology	✓
Maximum internal memory supported by processor	32 GB	Intel Flex Memory Access	✓
Memory types supported by processor	DDR3-SDRAM	Intel Fast Memory Access	✓
Memory clock speeds supported by processor	1333,1600 MHz		
Memory bandwidth supported by processor (max)	25,6 GB/s		
ECC supported by processor	✓		

Memory		Processor special features	
Internal memory *	4 GB	Intel Enhanced Halt State	✓
Maximum internal memory *	32 GB	Intel Demand Based Switching	✗
Internal memory type	DDR3-SDRAM	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Memory layout (slots x size)	1 x 4 GB	Processor package size	37.5 x 37.5 mm
Memory slots	4x DIMM	Supported instruction sets	AVX, SSE4.1, SSE4.2
Memory clock speed	1600 MHz	CPU configuration (max)	1
Memory channels	Dual-channel	Thermal solution specification	PCG 2011C
Storage		Intel Virtualization Technology for Directed I/O (VT-d)	✗
Total storage capacity *	500 GB	Intel Identity Protection Technology version	1,00
Optical drive type *	DVD±RW	Intel Secure Key Technology version	0,00
Number of HDDs installed	1	Intel Virtualization Technology (VT-x)	✓
HDD capacity	500 GB	Intel Dual Display Capable Technology	✗
HDD interface	SATA III	Intel Rapid Storage Technology	✗
HDD speed	7200 RPM	Processor ARK ID	65693
Card reader integrated	✗	Intel® Turbo Boost Technology	✗
Graphics		Intel® Hyper Threading Technology (Intel® HT Technology)	✓
On-board graphics card *	✓	Intel® Quick Sync Video Technology	✓
Discrete graphics card model *	Not available	Intel® My WiFi Technology (Intel® MWT)	✓
On-board graphics card family	Intel® HD Graphics	Intel® Identity Protection Technology (Intel® IPT)	✓
On-board graphics card model *	Intel® HD Graphics 2500	Intel® Anti-Theft Technology (Intel® AT)	✓
On-board graphics card base frequency	650 MHz	Conflict-Free processor	✓
On-board graphics card dynamic frequency (max)	1050 MHz	Power	
Number of displays supported (on-board graphics)	3	Power supply *	240 W
On-board graphics card ID	0x152	Certificates	
Network		Compliance certificates	RoHS
Ethernet LAN *	✓	Weight & dimensions	
Ethernet LAN data rates	10,100,1000 Mbit/s	Width *	338 mm
Cabling technology	10/100/1000Base-T(X)	Depth *	385 mm
Wi-Fi *	✗	Height *	100 mm
Bluetooth	✗	Weight *	7,5 kg
Wake-on-LAN ready	✓	Packaging content	
Ports & interfaces		Mouse included	✓
USB 2.0 ports quantity *	4	Keyboard included	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4	Display	
VGA (D-Sub) ports quantity	1	Display included *	✗
DVI port	✗	Other features	
DisplayPorts quantity	1	Optical drives quantity	1
Ethernet LAN (RJ-45) ports	1	Keyboard number of keys	104
Microphone in	✓	Windows keys	✓
Headphone outputs	1	HDD user password	✓
Line-out	✓	Speakers	✓
Line-in	✓	Built-in microphone	✓
S/PDIF out port	✗	Graphics card family	Intel
DC-in jack	✓	Ethernet interface type	Gigabit Ethernet
SmartCard slot	✗	Headphone connectivity	3.5 mm
Serial ports quantity	1	Microphone connectivity	3.5 mm
Design		Intel segment tagging	Enterprise, Professional
Chassis type *	SFF	BD interface type	SATA
Cable lock slot	✓		
Cable lock slot type	Kensington		
Product color *	Black		
Performance			

Performance

Motherboard chipset	Intel Q75 Express
Audio system	HD

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