

# Lenovo ThinkCentre M83 SFF Pro (10AH005XMB)

Intel Core i5-4590 (6M Cache, 3.3 GHz), 4GB DDR3, Intel HD Graphics 4600, 500GB HDD, Gigabit Ethernet, Windows 7 Pro 64-bit



## Price details:

Price excl. VAT: 1,051.04 €

Eco fees: 0.12 €

VAT 21 %: 220.74 €

## Product details:

Product code: 10AH005XMB

EAN: 0888772639792

Manufacturer: Lenovo

PDF generated on: 13 December, 2017



**1,271.90 €**

\* VAT included

## Small Form Factor Pro

The new small form factor (SFF) pro design features the compactness of the SFF with the expansion ability of a tower. The SFF desktops weigh in at 16.5 lbs and support both horizontal and vertical orientations.

## Platform Stability

The M83 desktop features Intel® Stable Image Platform Program (SIPP) and a 27-month life cycle with no planned hardware changes that affect the preloaded software image. Image stability for long-term deployments helps to reduce transition, qualification, and testing costs to ensure savings for your business.

## Multiple Monitor Display

Maximize productivity with independent display support for up to three monitors - or four via Mosaic Mode. The expanded work area and easier navigation between applications helps reduce errors and improve productivity as you extend your desktop across multiple monitors. (Requires second optional DisplayPort connectors.)

## Solid Security & Manageability

M83 desktops include some of the best security tools available in the industry, including USB ports disablement to help prevent data theft and network security risks against unauthorized use of storage devices. The Trusted Platform Module (TPM) encrypts data and key information like passwords and digital certificates, further securing applications, electronic transactions, and online communication. Plus the M83 desktop includes a chassis intrusion switch, which alerts against any unauthorized access attempts. Physical security through cable lock and Absolute® Computrace Support.

## Tool-Less Expandability

Upgrades are a cinch for IT staff, with convenient tool-free access to hardware. Especially beneficial when working with multiple desktops. And the M83 includes optional second HDD (2.5 inches) and dual graphic card support. Up to three hard drives and one slim ODD supported.

## Advanced Thermal Design

Our Intelligent Cooling Engine (ICE) 3.0 is designed to provide a balance between thermals and acoustics resulting in long desktop life. With two optimized settings, you choose the performance mode that best suits your work environment, prioritizing temperature or sound. Plus, ICE 3.0 allows for working in hotter temperatures and enables system monitoring with thermal alerts that preempt overheating possibilities.

## Green Leadership

Cisco® EnergyWise certification enables enterprise-level power monitoring and Lenovo Desktop Power Manager puts you in control of saving energy and keeping costs down. Plus, with ratings like ENERGY STAR 5.2, ULE Gold, and 92% efficiency with 80+ Platinum power supply unit (PSU), you can feel good about helping the planet and your bottom line.

## Priority Technical Support

You demand a lot from your system and Lenovo Services help you stay productive. Bypass basic troubleshooting support with direct access to advanced-level technicians to resolve issues quickly. Add Priority Technical Support to your purchase.

Main specifications:

## Processor

Processor frequency:	3.3 GHz
Processor family:	Intel Core i5-4xxx
Processor model:	i5-4590
Processor cores:	4
Number of processors installed:	1
Processor boost frequency:	3.7 GHz
Processor socket:	LGA 1150 (Socket H3)
Processor cache:	6 MB
Processor cache type:	Smart Cache
System bus rate:	5 GT/s
Processor threads:	4
PCI Express slots version:	3.0
Processor lithography:	22 nm
Processor operating modes:	32-bit,64-bit
Stepping:	C0
Bus type:	DMI
Processor codename:	Haswell
Thermal Design Power (TDP):	84 W
Processor series:	Intel Core i5-4500 Desktop series
FSB Parity:	N
Maximum number of PCI Express lanes:	16
PCI Express configurations:	1x16,2x8,1x8+2x4
Tcase:	72.72 °C
Maximum internal memory supported by processor:	32 GB
Conflict Free processor:	Y
Memory types supported by processor:	DDR3-SDRAM
Memory clock speeds supported by processor:	1333,1600 MHz
Memory bandwidth supported by processor (max):	25.6 GB/s
Memory channels supported by processor:	Dual
ECC supported by processor:	N

## Memory

Internal memory:	4 GB
Internal memory type:	DDR3-SDRAM
Maximum internal memory:	32 GB
Memory layout (slots x size):	1 x 4 GB
Memory slots:	4x DIMM
Memory clock speed:	1600 MHz

## Storage

Total storage capacity:	500 GB
Card reader integrated:	N
Storage media:	HDD
Number of storage drives installed:	1
Number of hard drives installed:	1
Hard drive capacity:	500 GB
Hard drive interface:	Serial ATA III
Hard drive speed:	7200 RPM
Hard drive size:	3.5 "

## Graphics

On-board graphics adapter:	Y
Discrete graphics adapter model:	Not available
On-board graphics adapter model:	Intel HD Graphics 4600
On-board graphics adapter family:	Intel HD Graphics
On-board graphics adapter base frequency:	350 MHz
On-board graphics adapter dynamic frequency (max):	1150 MHz
Maximum on-board graphics adapter memory:	1.024 GB
Number of displays supported (on-board graphics):	3
On-board graphics adapter DirectX version:	11.1
On-board graphics adapter ID:	0x412

## Optical drive

Optical drive type:	DVD±RW
Optical drives quantity:	1

## Networking

Ethernet LAN:	Y
Wi-Fi:	N
Ethernet LAN data rates:	10,100,1000 Mbit/s
Cabling technology:	10/100/1000Base-T(X)

#### Ports & interfaces

USB 2.0 ports quantity:	6
USB 3.0 (3.1 Gen 1) Type-A ports quantity:	4
VGA (D-Sub) ports quantity:	1
DVI port:	N
Ethernet LAN (RJ-45) ports:	1
Microphone in:	Y
Headphone outputs:	1
DisplayPorts quantity:	2
Serial ports quantity:	1

#### Design

Colour of product:	Black
Chassis type:	SFF
Placement supported:	Horizontal/Vertical
Water cooling system:	N
Intel segment tagging:	Enterprise,Professional

#### Performance

Product type:	PC
Motherboard chipset:	Intel Q85

#### Software

Operating system installed:	Windows 7 Professional
Operating system architecture:	64-bit
Recovery operating system:	Windows 8.1 Pro

#### Processor special features

Intel® vPro® Technology:	Y
Intel® Wireless Display (Intel® WiDi):	Y
Intel 64:	Y
Enhanced Intel SpeedStep Technology:	Y
Embedded options available:	N
Intel® InTru® 3D Technology:	Y
Intel® Insider®:	Y
Intel® Clear Video HD Technology (Intel® CVT HD):	N
Intel Clear Video Technology:	N
Intel VT-x with Extended Page Tables (EPT):	Y
Intel TSX-NI:	Y
Idle States:	Y
Thermal Monitoring Technologies:	Y
Intel Stable Image Platform Program (SIPP):	Y
Intel® AES New Instructions (Intel® AES-NI):	Y
Intel® Secure Key:	Y
Intel® OS Guard:	Y
Intel Trusted Execution Technology:	Y
Execute Disable Bit:	Y
Intel FDI Technology:	Y
Intel Flex Memory Access:	N
Intel Fast Memory Access:	N
Intel® Smart Cache:	Y
Intel Enhanced Halt State:	Y
Intel Demand Based Switching:	N
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID):	N
Processor package size:	37.5 mm
Supported instruction sets:	AVX 2.0,SSE4.1,SSE4.2
Processor code:	SR1QJ
Scalability:	1S
CPU configuration (max):	1
Graphics & IMC lithography:	22 nm
Thermal solution specification:	PCG 2013D
Intel Virtualization Technology for Directed I/O (VT-d):	Y
Intel Identity Protection Technology version:	1.00
Intel Stable Image Platform Program (SIPP) version:	1.00
Intel Secure Key Technology version:	1.00

Intel Virtualization Technology (VT-x): Y  
Intel Small Business Advantage (SBA) version: 1.00  
Intel TSX-NI version: 0.00  
Intel Dual Display Capable Technology: N  
Intel Rapid Storage Technology: N  
Processor ARK ID: 80815  
Intel® Turbo Boost Technology: 2.0  
Intel® Hyper Threading Technology (Intel® HT Technology): Y  
Intel® Quick Sync Video Technology: Y  
Intel® My WiFi Technology (Intel® MWT): Y  
Intel® Identity Protection Technology (Intel® IPT): Y  
Intel® Anti-Theft Technology (Intel® AT): Y

#### Power

Power supply: 240 W

#### Certificates

RoHS compliance: Y  
Energy Star certified: Y  
EPEAT compliance: Gold

#### Weight & dimensions

Width: 338 mm  
Depth: 375 mm  
Height: 102 mm  
Weight: 7800 g

#### Packaging content

Display included: N

#### Other features

Intel® Virtualization Technology (Intel® VT): VT-d, VT-x