

## Lenovo System x3500 M5 server (5464H2G)

Xeon 12C E5-2670v3 120W 2.3GHz/2133MHz/30MB, 1x16GB, O/Bay HS 2.5in  
SATA/SAS, SR M5210, DVD-ROM, 900W p/s, Tower



### Price details:

Price excl. VAT: 4,077.07 €

Eco fees: 0.07 €

VAT 21 %: 856.20 €

### Product details:

Product code: 5464H2G

EAN: 0889488027194

Manufacturer: Lenovo

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**4,933.34 €**

\* VAT included

- Optimize your workloads with choice of flexible storage-based configurations, designed for infrastructure basics to business-critical applications
- Maximize uptime and minimize costs with industry-leading reliability features and tools.
- Safeguard enterprise data with built-in System x® Trusted Platform Assurance, an exclusive set of security features and practices, plus optional self-encrypting drives and IBM Security Key Lifecycle Manager or MegaRAID SafeStore encryption services, which is part of any M5200 Series RAID-5 upgrade.
- Achieve superior performance with Intel® Xeon® processors E5-2600 v3 series (up to 36 cores per server), end-to-end 12 Gbps RAID support for both devices and infrastructure
- Accelerate your graphics applications with up to two 300 W GPUs
- Run up to 131 percent greater java workload performance<sup>1</sup>, up to 61 percent greater virtualization performance<sup>2</sup>, and up to 59 percent greater database performance<sup>3</sup> per system than the previous generation
- Leverage tiered storage by using both high-performance 2.5-inch solid-state drives (SSDs) and large-capacity, less-frequently-accessed 3.5-inch hard disk drive (HDD) storage in the same server
- Reduce data center costs with smart energy-efficient features, including extended operating temperature, Titanium power supplies (up to 96 percent efficiency), active/standby\* power supply modes, and TruDDR4 Memory (with up to 45 percent improved energy use compared to DDR3)<sup>4</sup>
- Run more virtual machines and workloads with up to 50 percent more cores and cache and 2x more memory capacity than previous generation

### BIG PERFORMANCE

The new Lenovo® System x3500 M5 delivers big performance and storage flexibility in a small footprint. Choose from models with up to 32 2.5-inch or 12 3.5-inch drives. Leverage tiered storage with a combination of fast-access 2.5-inch and low-cost-per-terabyte 3.5-inch drives in the same server.

Deploy up to two Intel® Xeon® processors E5-2600 v3 series for up to 36 cores per server. Accelerate your graphics applications with up to two optional GPUs. With twice the memory, up to 131 percent greater performance<sup>1</sup>, and 50 percent more cores and cache than the previous generation, the x3500 M5 lets your workloads fly.

### SECURITY, RELIABILITY

The x3500 M5 integrates industry-leading security and reliability. System x® Trusted Platform Assurance establishes a solid security foundation for your workloads-from infrastructure to analytics. You can also deploy self-encrypting drives with optional key management software.

System x servers achieved the highest reliability of any x86 server.<sup>2</sup> Diagnostic tools such as Predictive Failure Analysis proactively monitor server sub-components to help reduce downtime and costs.

### Main specifications:

#### Processor

Processor frequency:	2.3 GHz
Processor family:	Intel Xeon E5 v3
Processor model:	E5-2670V3
Processor cores:	12
Number of processors installed:	1
Processor cache type:	Smart Cache
Processor cache:	30 MB
System bus rate:	9.6 GT/s
Processor manufacturer:	Intel
Compatible processor series:	Intel Xeon
Processor socket:	LGA 2011-v3
Processor boost frequency:	3.1 GHz
Processor lithography:	22 nm
Processor threads:	24
Processor operating modes:	64-bit
Stepping:	M1
FSB Parity:	N
Bus type:	QPI
Number of QPI links:	2
Processor codename:	Haswell
Tcase:	84.5 °C
Maximum internal memory supported by processor:	160 GB
Memory types supported by processor:	DDR4-SDRAM
Memory clock speeds supported by processor:	1600,1866,2133 MHz
Memory bandwidth supported by processor (max):	68 GB/s
Memory channels supported by processor:	Quad
ECC supported by processor:	Y
Execute Disable Bit:	Y
Idle States:	Y
Thermal Monitoring Technologies:	Y
Maximum number of PCI Express lanes:	40
PCI Express configurations:	x4, x8, x16
Processor package size:	52.5 mm
Supported instruction sets:	AVX 2.0
Scalability:	2S
Physical Address Extension (PAE):	46 bit
Embedded options available:	N
Thermal Design Power (TDP):	120 W
Processor series:	Intel Xeon E5-2600 v3
Conflict Free processor:	N

#### Memory

Internal memory:	16 GB
Maximum internal memory:	1500 GB
Memory slots:	24
ECC:	Y
Memory layout (slots x size):	1 x 16 GB

#### Storage

Hard drive size:	2.5/3.5 "
Hard drive interface:	Serial ATA III,Serial Attached SCSI (SAS)
RAID support:	Y
RAID levels:	0,1,5,6,10,50,60
S.M.A.R.T. support:	Y
Solid-state drive interface:	Serial ATA III,Serial Attached SCSI
Hot-swap:	Y

#### Networking

Ethernet LAN:	Y
Cabling technology:	10/100/1000Base-T(X)
Ethernet interface type:	Fast Ethernet,Gigabit Ethernet

#### Ports & interfaces

USB 2.0 ports quantity:	4
Ethernet LAN (RJ-45) ports:	5
USB 3.0 (3.1 Gen 1) Type-A ports quantity:	2

#### Expansion slots

PCI Express slots version:	3.0
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#### Design

Chassis type:	Tower
Optical drive type:	DVD-ROM
Redundant fans support:	Y
<b>Performance</b>	
Operating system installed:	N
Compatible operating systems:	Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, VMware vSphere
Trusted Platform Module (TPM):	Y
<b>Processor special features</b>	
CPU configuration (max):	2
Intel Rapid Storage Technology:	N
Enhanced Intel SpeedStep Technology:	Y
Intel® Identity Protection Technology (Intel® IPT):	N
Intel® Wireless Display (Intel® WiDi):	N
Intel Virtualization Technology for Directed I/O (VT-d):	Y
Intel® Anti-Theft Technology (Intel® AT):	N
Intel® Hyper Threading Technology (Intel® HT Technology):	Y
Intel® My WiFi Technology (Intel® MWT):	N
Intel® Turbo Boost Technology:	2.0
Intel® vPro® Technology:	Y
Intel® Quick Sync Video Technology:	N
Intel® InTru® 3D Technology:	N
Intel® Clear Video HD Technology (Intel® CVT HD):	N
Intel® Insider®:	N
Intel Flex Memory Access:	N
Intel® Smart Cache:	Y
Intel® AES New Instructions (Intel® AES-NI):	Y
Intel Trusted Execution Technology:	Y
Intel Enhanced Halt State:	Y
Intel VT-x with Extended Page Tables (EPT):	Y
Intel Demand Based Switching:	Y
Intel® Secure Key:	Y
Intel TSX-NI:	N
Intel® OS Guard:	Y
Intel Clear Video Technology:	N
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID):	Y
Intel 64:	Y
Intel Identity Protection Technology version:	0.00
Intel Secure Key Technology version:	1.00
Intel Virtualization Technology (VT-x):	Y
Intel TSX-NI version:	0.00
Intel Dual Display Capable Technology:	N
Intel FDI Technology:	N
Intel Fast Memory Access:	N
Processor ARK ID:	81709
<b>Power</b>	
Redundant power supply (RPS) support:	Y
Power supply:	900 W
Number of redundant power supplies supported:	2
Number of main power supplies:	1
<b>Weight &amp; dimensions</b>	
Width:	218 mm
Depth:	720 mm
Height:	440 mm

\*PLEASE NOTE: Every effort has been made to ensure the accuracy of all information contained herein. Lasystems makes no warranty expressed or implied with respect to accuracy of the information, including price, editorials or specifications. Lasystems or its suppliers shall not be liable for incidental, consequential or special damages arising from, or as a result of, any electronic transmission or the accuracy of the information contained herein, even if Lasystems has been advised of the possibility of such damages. Product and manufacturer names are used only for the purpose of identification.