

## Lenovo System x3500 M5 server (5464G3G)

Xeon 10C E5-2650v3 105W 2.3GHz/2133MHz/25MB, 1x16GB, O/Bay HS 2.5in  
SATA/SAS, SR M5210, DVD-ROM, 750W p/s, Rack



### Price details:

Price excl. VAT: 3,541.47 €

Eco fees: 0.08 €

VAT 21 %: 743.73 €

### Product details:

Product code: 5464G3G

EAN: 4053162605619

Manufacturer: Lenovo

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**4,285.28 €**

\* 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: E5-2650V3  
Processor cores: 10  
Number of processors installed: 1  
Processor cache type: Smart Cache  
Processor cache: 25 MB  
System bus rate: 9.6 GT/s  
Processor manufacturer: Intel  
Compatible processor series: Xeon  
Processor socket: LGA 2011-v3  
Processor boost frequency: 3 GHz  
Processor lithography: 22 nm  
Processor threads: 20  
Processor operating modes: 64-bit  
Stepping: M1  
FSB Parity: N  
Bus type: QPI  
Number of QPI links: 2  
Processor codename: Haswell  
Tcase: 78.9 °C  
Maximum internal memory supported by processor: 60 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  
Processor code: SR1YA  
Scalability: 2S  
Physical Address Extension (PAE): 46 bit  
Embedded options available: N  
Thermal Design Power (TDP): 105 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

#### Design

Chassis type:	Rack (5U)
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 Clear Video Technology:	N
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID):	N
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:	81705
<b>Power</b>	
Redundant power supply (RPS) support:	Y
Power supply:	750 W
Number of redundant power supplies supported:	2
Number of main power supplies:	1
<b>Weight &amp; dimensions</b>	
Width:	423 mm
Depth:	706 mm
Height:	218 mm

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