

## Lenovo System x3500 M5 server (5464C2G)

Xeon 6C E5-2620v3 85W 2.4GHz/1866MHz/15MB, 1x16GB, O/Bay HS 2.5in SATA/SAS, SR M1215, DVD-ROM, 550W p/s, Tower



### Price details:

Price excl. VAT: 2,841.92 €

Eco fees: 0.07 €

VAT 21 %: 596.82 €

### Product details:

Product code: 5464C2G

EAN: 4053162605558

Manufacturer: Lenovo

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# 3,438.81 €

\* 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:	2.4 GHz
Processor family:	Intel Xeon E5 v3
Processor model:	E5-2620V3
Processor cores:	6
Number of processors installed:	1
Processor cache type:	Smart Cache
Processor cache:	15 MB
System bus rate:	8 GT/s
Processor manufacturer:	Intel
Compatible processor series:	Xeon
Processor socket:	LGA 2011-v3
Processor boost frequency:	3.2 GHz
Processor lithography:	22 nm
Processor threads:	12
Processor operating modes:	64-bit
Stepping:	R2
FSB Parity:	N
Bus type:	QPI
Number of QPI links:	2
Processor codename:	Haswell
Tcase:	72.6 °C
Maximum internal memory supported by processor:	160 GB
Memory types supported by processor:	DDR4-SDRAM
Memory clock speeds supported by processor:	1600,1866 MHz
Memory bandwidth supported by processor (max):	59 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
Processor code:	SR207
Scalability:	2S
Physical Address Extension (PAE):	Y
Physical Address Extension (PAE):	46 bit
Embedded options available:	Y
Thermal Design Power (TDP):	85 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: Tower  
Optical drive type: DVD-ROM  
Redundant fans support: Y

#### Performance

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

#### Processor special features

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® HTT): 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): 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: 83352

#### Power

Redundant power supply (RPS) support: Y  
Power supply: 550 W  
Number of redundant power supplies supported: 2  
Number of main power supplies: 1

#### Weight & dimensions

Width: 218 mm  
Depth: 720 mm  
Height: 440 mm

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