

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: 0.07 €

VAT 21 %: 743.72 €

Product details:

Product code: 5464G3G

EAN: 4053162605619

Manufacturer: Lenovo

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4,285.26 €

* 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 performance¹, up to 61 percent greater virtualization performance², and up to 59 percent greater database performance³ 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)⁴
- 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 performance¹, 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.² 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: Intel 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
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® 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
Power	
Redundant power supply (RPS) support:	Y
Power supply:	750 W
Number of redundant power supplies supported:	2
Number of main power supplies:	1
Weight & dimensions	
Width:	423 mm
Depth:	706 mm
Height:	218 mm

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