

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: 0.08 €

VAT 21 %: 856.20 €

Product details:

Product code: 5464H2G

EAN: 0889488027194

Manufacturer: Lenovo

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4,933.35 €

* 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:	E5-2670V3
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:	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
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® 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
Power	
Redundant power supply (RPS) support:	Y
Power supply:	900 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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