

Lenovo System x3500 M5 server (5464C4G)

Xeon 6C E5-2620v3 85W 2.4GHz/1866MHz/15MB, 1x16GB, O/Bay HS 3.5in SATA/SAS, SR M1215, DVD-ROM, 550W p/s, Tower



Price details:

Price excl. VAT: 2,874.71 €

Eco fees: 0.08 €

VAT 21 %: 603.71 €

Product details:

Product code: 5464C4G

EAN: 0889488027637

Manufacturer: Lenovo

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3,478.50 €

* 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: | 2.4 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: | 768 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: | 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® 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): 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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