

Lenovo System x3500 M5 server (5464E2G)

Xeon 6C E5-2609v3 85W 1.9GHz/1600MHz/15MB, 1x8GB, O/Bay HS 3.5in SATA/SAS, SR M1215, Multi-Burner, 550W p/s, Tower



Price details:

Price excl. VAT: 2,129.22 €

Eco fees: 0.08 €

VAT 21 %: 447.15 €

Product details:

Product code: 5464E2G

EAN: 4056572666348

Manufacturer: Lenovo

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2,576.45 €

* 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: | 1.9 GHz |
| Processor family: | Intel Xeon E5 v3 |
| Processor model: | E5-2609V3 |
| Processor cores: | 6 |
| Number of processors installed: | 1 |
| Processor cache type: | Smart Cache |
| Processor cache: | 15 MB |
| System bus rate: | 6.4 GT/s |
| Processor manufacturer: | Intel |
| Compatible processor series: | Xeon |
| Processor socket: | LGA 2011-v3 |
| Processor lithography: | 22 nm |
| Processor threads: | 6 |
| Processor operating modes: | 64-bit |
| Stepping: | M1 |
| FSB Parity: | N |
| Bus type: | QPI |
| Number of QPI links: | 2 |
| Processor codename: | Haswell |
| Tcase: | 70.9 °C |
| Maximum internal memory supported by processor: | 1500 GB |
| Memory types supported by processor: | DDR4-SDRAM |
| Memory clock speeds supported by processor: | 1600,1866,2133 MHz |
| Memory bandwidth supported by processor (max): | 51 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): | 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: | 8 GB |
| Maximum internal memory: | 1500 GB |
| Memory slots: | 24 |
| ECC: | Y |
| Memory layout (slots x size): | 1 x 8 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 Super Multi DL |
| 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): | N |
| Intel® My WiFi Technology (Intel® MWT): | N |
| Intel® Turbo Boost Technology: | N |
| 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: | 81897 |
| 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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