

## Lenovo System x3650 M5 server (8871EYG)

1x E5-2637 v4 4C 3.5GHz 15MB 2400MHz 135W, 1x 16GB DDR4, RAID M5210, 8x 2.5" HS, 4x GbE, 1x 1500W HS



### Price details:

Price excl. VAT: 3,672.63 €

Eco fees: 0.00 €

VAT 21 %: 771.25 €

### Product details:

Product code: 8871EYG

EAN: 0889488407545

Manufacturer: Lenovo

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**4,443.88 €**

\* VAT included

### System x3650 M5

- Tackle enterprise workloads with power, efficiency and reliability
- Choose from flexible storage configurations for workload-optimized performance
- Reduce unplanned downtime and minimize costs
- Safeguard enterprise data with built-in System x® Trusted Platform Assurance, plus optional self-encrypting drives and IBM Security Key Lifecycle Manager
- Gain superior performance with Intel Xeon E5-2600 v3 processors (up to 36 cores per server), end-to-end 12 Gbps RAID support-devices and infrastructure-up to four RAID adapters, and up to two 300 W GPUs
- Run up to 131 percent greater java workload performance, up to 61 percent greater virtualization performance, and up to 59 percent greater database performance per system than the previous generation
- Reduce data center costs with smart energy-efficient features, including unique 40°C operating temperature, 80 PLUS® Titanium power supplies (up to 96 percent efficiency), active/standby power supply modes, dual fan zone design, and TruDDR4 Memory (up to 45 percent lower energy use over DDR3)
- Run more virtual machines and workloads with up to 50 percent more cores and cache and 2x more memory capacity per system than previous generation

With the powerful, versatile new 2U two-socket System x3650 M5 rack server, you can run even more workloads, 24/7, and gain faster business insights. Integrated with up to two Intel E5-2600 v3 series CPUs and industry-leading two-socket storage capacity, the x3650 M5 fast forwards your business. You can select from an impressive array of storage configurations (up to 26 drive bays) that optimize diverse workloads from Cloud to Big Data.

### Main specifications:

#### Processor

|                                 |                  |
|---------------------------------|------------------|
| Processor frequency:            | 3.5 GHz          |
| Processor family:               | Intel Xeon E5 v4 |
| Processor model:                | E5-2637V4        |
| Processor cores:                | 4                |
| Number of processors installed: | 1                |
| Processor cache type:           | Smart Cache      |
| Processor cache:                | 15 MB            |
| System bus rate:                | 9.6 GT/s         |
| Processor socket:               | LGA 2011-v3      |
| Processor boost frequency:      | 3.7 GHz          |
| Processor lithography:          | 14 nm            |
| Processor threads:              | 8                |
| Processor operating modes:      | 64-bit           |
| Stepping:                       | R0               |
| Bus type:                       | QPI              |
| Number of QPI links:            | 2                |

Processor codename: Broadwell  
 Tcase: 75 °C  
 Maximum internal memory supported by processor: 1536 GB  
 Memory types supported by processor: DDR4-SDRAM  
 Memory clock speeds supported by processor: 1600,1866,2133,2400 MHz  
 Memory bandwidth supported by processor (max): 70.8 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  
 Processor package size: 52.5 x 51 mm  
 Supported instruction sets: AVX 2.0  
 Processor code: SR2P3  
 Scalability: 2S  
 Physical Address Extension (PAE): Y  
 Physical Address Extension (PAE): 46 bit  
 Embedded options available: N  
 Thermal Design Power (TDP): 135 W  
 Conflict Free processor: Y

#### Memory

Internal memory: 16 GB  
 Internal memory type: DDR4-SDRAM  
 Maximum internal memory: 1536 GB  
 Memory slots: 24  
 Memory layout (slots x size): 1 x 16 GB

#### Storage

RAID support: Y  
 Maximum storage capacity: 147.6 TB  
 Hot-Plug support: Y  
 Hot-swap: Y  
 Supported storage drive interfaces: SAS,Serial ATA

#### Graphics

Maximum graphics adapter memory: 16 MB  
 On-board graphics adapter: Y

#### Networking

Ethernet LAN: Y  
 Cabling technology: 10/100/1000Base-T(X)  
 Ethernet interface type: Gigabit Ethernet

#### Ports & interfaces

USB 2.0 ports quantity: 1  
 VGA (D-Sub) ports quantity: 1  
 Ethernet LAN (RJ-45) ports: 4  
 USB 3.0 (3.1 Gen 1) Type-A ports quantity: 2

#### Expansion slots

PCI Express x8 (Gen 3.x) slots: 8  
 PCI Express slots version: 3.0

#### Design

Chassis type: Rack (2U)  
 Optical drive type: N  
 Rack mounting: Y  
 Redundant fans support: Y  
 Rack rails: Y

#### Performance

Operating system installed: N  
 Compatible operating systems: Microsoft Windows Server Red Hat Enterprise LinuxSUSE Linux Enterprise ServerVMware vSphere  
 Trusted Platform Module (TPM): Y  
 On-site support: Y  
 Trusted Platform Module (TPM) version: 2.0  
 Integrated BMC with IPMI: Y

#### Processor special features

|  |       |
|--|-------|
| CPU configuration (max):                                 | 2     |
| Enhanced Intel SpeedStep Technology:                     | Y     |
| Intel® Identity Protection Technology (Intel® IPT):      | Y     |
| Intel Virtualization Technology for Directed I/O (VT-d): | Y     |
| Intel® Hyper Threading Technology (Intel® HTT):          | Y     |
| Intel® Turbo Boost Technology:                           | 2.0   |
| Intel Flex Memory Access:                                | N     |
| 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:  | Y     |
| Intel® OS Guard:   | Y     |
| Intel 64:  | Y     |
| Intel Virtualization Technology (VT-x):                  | Y     |
| Processor ARK ID:  | 92983 |

#### Power

|                                       |        |
|---------------------------------------|--------|
| Redundant power supply (RPS) support: | Y      |
| Power supply:                         | 1500 W |

#### Operational conditions

|                                    |            |
|------------------------------------|------------|
| Operating temperature (T-T):       | 5 - 40 °C  |
| Storage temperature (T-T):         | 5 - 45 °C  |
| Operating relative humidity (H-H): | 8 - 85 %   |
| Storage relative humidity (H-H):   | 8 - 85 %   |
| Operating altitude:                | 0 - 3050 m |

#### Certificates

|                        |   |
|------------------------|---|
| Energy Star certified: | Y |
|------------------------|---|

#### Weight & dimensions

|         |         |
|---------|---------|
| Width:  | 446 mm  |
| Depth:  | 800 mm  |
| Height: | 87 mm   |
| Weight: | 19000 g |

#### Technical details

|   |   |
|---|---|
| Internal I/O Expansion Module x8 Gen 3: | 3 |
| Integrated LAN:                         | Y |
| Number of 2.5" bays:                    | 8 |

#### Other features

|                          |         |
|--------------------------|---------|
| Graphics adapter:        | G200eR2 |
| Graphics adapter family: | Matrox  |