

Lenovo System x3650 M3 server (794554G)

x3650 M3, 2 x Intel Xeon E5645 (12M Cache, 2.40 GHz, 5.86 GT/s Intel QPI), 2 x 4GB DDR3, 16 x 2.5" SAS/SATA/SSD HDD, Hot-Swap, 2 x RJ-45, Gigabit Ethernet, 4 x USB 2.0, Rack/2U



Price details:

Price excl. VAT: 3,607.06 €

Eco fees: 0.07 €

VAT 21 %: 757.50 €

Product details:

Product code: 794554G

EAN: 5051045061612

Manufacturer: Lenovo

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4,364.63 €

* VAT included

Highlights:

- Improve cost-effectiveness with higher performance per watt.
- Simplify management and serviceability with flexible design.
- Manage risk with resilient architectures and virtualized environments.

Packed with innovation

The IBM System x3650 M3 provides outstanding performance for your mission-critical applications. Its energy-efficient design supports more cores, memory and data capacity in a scalable 2U package that's easy to service and manage. With more computing power per watt and the latest Intel® Xeon® processors, you can reduce costs while maintaining speed and availability.

Simplify management and serviceability

The x3650 M3 offers a flexible, scalable design and simple upgrade path to 16 HDDs or SSDs, and 192 GB of memory. Comprehensive systems management tools such as advanced diagnostics, a cable management arm and the ability to control resources from a single point make it easy to deploy, integrate, service and manage.

Product features

- Power-optimized performance that leverages the speed of new Intel processors with more capacity and memory.
- Innovative, energy-smart 2U design to help lower operational costs.
- Energy-efficient design with UDIMMs, 40 W processing and UEFI BIOS.
- Better serviceability with a highly scalable, flexible design that is easy to deploy, integrate, service and manage.
- Easier risk management with resilient architectures and virtualized environments.

Hardware summary

- 2U chassis.
- Up to two 3.46 GHz six-core (3.60 GHz four-core) Intel Xeon 5600 series processors with QuickPath Interconnect technology, up to 1333 MHz memory access speed.
- Up to 192 GB RDIMMs or 48 GB UDIMMs high-performance, new-generation DDR-3 memory.
- Internal storage flexibility with up to sixteen 2.5" hot-swap SAS/SATA HDDs or SSDs.
- Up to four PCIe slots.
- Low 675 W design and up to 94% efficient power supplies, six cooling fan modules, new UEFI BIOS, altimeter monitored by Integrated Management Module and IBM Systems Director Active Energy Manager.
- NEBS 1/ETSI equivalent compliance for both AC and DC power supplies (model dependent).
- Compliance with 80-PLUS® and ENERGY STAR® energy-efficiency standards (model dependent).
- VMware ESXi embedded hypervisor support with optional 2 GB USB key for virtualization.

Main specifications:

Processor

Processor frequency:	2.4 GHz
Processor family:	Intel Xeon 5000
Processor model:	E5645
Processor cores:	6
Number of processors installed:	2
Processor cache type:	Smart Cache
Processor cache:	12 MB
System bus rate:	5.86 GT/s
Maximum number of SMP processors:	2
Compatible processor series:	Intel Xeon
Processor socket:	Socket B (LGA 1366)
Motherboard chipset:	Intel 5520
Processor boost frequency:	2.67 GHz
Processor lithography:	32 nm
Processor threads:	12
Processor operating modes:	64-bit
Stepping:	B1
FSB Parity:	N
Bus type:	QPI
Number of QPI links:	2
Processor codename:	Westmere EP
Tcase:	76.2 °C
Maximum internal memory supported by processor:	288 GB
Memory types supported by processor:	DDR3-SDRAM
Memory clock speeds supported by processor:	800,1066,1333 MHz
Memory bandwidth supported by processor (max):	32 GB/s
Memory channels supported by processor:	Triple
ECC supported by processor:	Y
Execute Disable Bit:	N
Idle States:	Y
Thermal Monitoring Technologies:	N
Processor package size:	42.5 mm
Supported instruction sets:	SSE4.2
Physical Address Extension (PAE):	40 bit
Embedded options available:	Y
Thermal Design Power (TDP):	80 W
CPU multiplier (bus/core ratio):	18
Processor series:	Intel Xeon 5600 series
Conflict Free processor:	N

Memory

Internal memory:	8 GB
Internal memory type:	DDR3-SDRAM
Maximum internal memory:	192 GB
Memory slots:	18 x DIMM
Memory clock speed:	1333 MHz
ECC:	Y
Memory layout (slots x size):	2 x 4 GB

Storage

Hard drive size:	2.5 "
RAID support:	Y
Maximum storage capacity:	16 TB
RAID levels:	10
Number of hard drives supported:	16
Hot-swap:	Y

Graphics

Maximum graphics adapter memory:	16 MB
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Networking

Ethernet LAN:	Y
Networking features:	Gigabit Ethernet
Wake-on-LAN ready:	Y
LAN controller:	Broadcom BCM5709S

Ports & interfaces

USB 2.0 ports quantity:	4
VGA (D-Sub) ports quantity:	2
Ethernet LAN (RJ-45) ports:	2

Serial ports quantity:	1
Expansion slots	
PCI Express x8 slots:	4
Design	
Chassis type:	Rack (2U)
Optical drive type:	N
Performance	
Compatible operating systems:	Windows Server 2008, 2008 R2 (32/64-bit)Windows Server 2003, 2003 R2 (32/64-bit)RHEL 5 (32/64-bit)RHEL 6 (32/64-bit)SLES 10, 11 (32/64-bit)VMware vSphere Hypervisor 4.1Sun Solaris 10
Processor special features	
CPU configuration (max):	2
Intel Rapid Storage Technology:	N
Enhanced Intel SpeedStep Technology:	Y
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:	Y
Intel® vPro® Technology:	N
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® 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 Clear Video Technology:	N
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID):	Y
Intel 64:	Y
Intel Virtualization Technology (VT-x):	Y
Intel Dual Display Capable Technology:	N
Intel FDI Technology:	N
Intel Fast Memory Access:	N
Processor ARK ID:	48768
Power	
Redundant power supply (RPS) support:	N
Power supply:	460 W
Power supply type:	AC/DC
Number of power supply units:	2
Operational conditions	
Operating temperature (T-T):	10 - 32 °C
Operating altitude:	914.4 - 2133 m
Certificates	
Energy Star certified:	Y
Compliance industry standards:	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
Weight & dimensions	
Width:	443.6 mm
Depth:	798 mm
Height:	85.4 mm
Weight:	24900 g
Other features	
Disk array controller:	LSI 1068
Mac compatibility:	N
Graphics adapter:	G200eV
Graphics adapter memory type:	GDDR2
Graphics adapter family:	Matrox

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