

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: 0.08 €

VAT 21 %: 757.50 €

Product details:

Product code: 794554G

EAN: 5051045061612

Manufacturer: Lenovo

PDF generated on: 13 December, 2017



4,364.64 €

* 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:	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
----------------------------------	-------

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

*PLEASE NOTE: Every effort has been made to ensure the accuracy of all information contained herein. Lasystems makes no warranty expressed or implied with respect to accuracy of the information, including price, editorials or specifications. Lasystems or its suppliers shall not be liable for incidental, consequential or special damages arising from, or as a result of, any electronic transmission or the accuracy of the information contained herein, even if Lasystems has been advised of the possibility of such damages. Product and manufacturer names are used only for the purpose of identification.