

Lenovo System x3850 X5 server (7143B2G)

2x Intel Xeon E7-4820 (18M Cache, 2.00 GHz, 5.86 GT/s Intel QPI), 16GB DDR3, Hot Plug SATA/SAS SFF 2.5" HDD/SSD, Matrox G200eV 16MB DDR2, Gigabit Ethernet, 1975W, Rack 4U



Price details:

Price excl. VAT: 10,580.70 €

Eco fees: 0.07 €

VAT 21 %: 2,221.96 €

Product details:

Product code: 7143B2G

EAN:

Manufacturer: Lenovo

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12,802.73 €

* VAT included

The x3850 X5 server is the fifth generation of the Enterprise X-Architecture, delivering innovation with enhanced reliability and availability features to enable optimal performance for databases, enterprise applications, and virtualized environments. Environments that run around the clock to supply information world-wide require dependable servers with features that can tolerate a component failure without total shutdown.

The x3850 X5 server packs numerous fault-tolerant and high-availability features into a high-density, rack-optimized package that helps to significantly reduce the space needed to support massive network computing operations. A single x3850 X5 supports up to four of Intel's high-performance 10-core processors and up to 1.5 TB of memory. Two x3850 X5 servers can be connected together to form a single-system image with up to eight processors and up to 3 TB of RAM. This processing capacity is ideal for large-scale database or virtualization requirements.

The x3850 X5 is an ideal server for enterprise database and virtualization workloads. The x3850 X5 currently holds the #1 scores in five industry-standard benchmarks. This includes a four-socket TPC-C (database benchmark) result of over 2.3 million transactions per minute (27% better than the closest HP result) and world record TPC-H (business intelligence) price performance result.

Main specifications:

Processor

Processor frequency:	2 GHz
Processor family:	Intel Xeon E7
Processor model:	E7-4820
Processor cores:	8
Number of processors installed:	2
Processor cache type:	Smart Cache
Processor cache:	18 MB
System bus rate:	5.86 GT/s
Maximum number of SMP processors:	4
Processor socket:	LGA 1567 (Socket LS)
Motherboard chipset:	Intel 7500
Processor boost frequency:	2.266 GHz
Processor lithography:	32 nm
Processor threads:	16
Processor operating modes:	64-bit
Stepping:	A2
FSB Parity:	N
Bus type:	QPI
Processor codename:	Westmere EX
Tcase:	64 °C

Maximum internal memory supported by processor:	2648 GB
Memory types supported by processor:	DDR3-SDRAM
Memory clock speeds supported by processor:	800,978,1066,1333 MHz
Memory channels supported by processor:	Quad
ECC supported by processor:	Y
Execute Disable Bit:	Y
Thermal Monitoring Technologies:	Y
Processor package size:	49.17 mm
Supported instruction sets:	SSE4.1,SSE4.2
Processor code:	SLC3G
Scalability:	S4S
Embedded options available:	N
Thermal Design Power (TDP):	105 W
CPU multiplier (bus/core ratio):	15
Processor series:	Intel Xeon E7-4800
Conflict Free processor:	N

Memory

Internal memory:	16 GB
Internal memory type:	DDR3-SDRAM
Maximum internal memory:	1024 GB
Memory slots:	64 x DIMM
Memory clock speed:	1333 MHz
ECC:	Y
Memory layout (slots x size):	4 x 4 GB

Storage

RAID support:	Y
Maximum storage capacity:	12.8 TB
RAID levels:	1E
Number of hard drives supported:	8
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 BCM5709C

Ports & interfaces

USB 2.0 ports quantity:	6
VGA (D-Sub) ports quantity:	1
Ethernet LAN (RJ-45) ports:	1
Serial ports quantity:	1

Expansion slots

PCI Express x4 slots:	1
PCI Express x8 slots:	5
PCI Express slots version:	2.0

Design

Chassis type:	Rack (4U)
Optical drive type:	N

Performance

Operating system installed:	N
Compatible operating systems:	Windows Server 2008, 2008 R2 (Standard, Web, Enterprise, HPC, Datacenter) 64-bitWindows HPC Server 2008Windows Server 2003, 2003 R2 (Datacenter) 32/64-bitWindows SBS 2008 (Standard, Premium)RHEL 5 Server 64-bitRHEL 6 Server 64-bitSLES 10, 11 64-bitVMware vSphere Hypervisor 4.1

Processor special features

CPU configuration (max):	4
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):	
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:	N
Intel VT-x with Extended Page Tables (EPT):	Y
Intel Demand Based Switching:	N
Intel Clear Video Technology:	N
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID):	N
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:	53675

Power

Redundant power supply (RPS) support:	Y
Power supply:	1975 W
Power supply type:	AC/DC
Number of power supply units:	2
Number of main power supplies:	2

Certificates

Energy Star certified:	Y
Compliance industry standards:	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab

Weight & dimensions

Width:	444 mm
Depth:	712 mm
Height:	172.8 mm
Weight:	35300 g

Other features

Disk array controller:	ServeRAID-BR10i V2
Graphics adapter:	G200eV
Graphics adapter memory type:	GDDR2
Graphics adapter family:	Matrox

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