

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: 0.08 €

VAT 21 %: 2,221.96 €

Product details:

Product code: 7143B2G

EAN:

Manufacturer: Lenovo

PDF generated on: 11 December, 2017



12,802.74 €

* 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
----------------------------------	-------

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

*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.