

## 64GB Computer memory DDR4 for Lenovo System x3850 X6 (6241) (DDR4) LRDIMM



**199,75 EUR**

plus VAT

**237,70 EUR**

incl. VAT

immediately available

<https://www.phs-memory.com>

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### Your benefits

- ✓ verified quality memory
- ✓ 5 years warranty  
Warranty details see last page
- ✓ 100% compatible
- ✓ free support on our hotline
- ✓ fast delivery

## PHS-memory® - computer memory with 100% quality

- many years of IT competence
- Free support for optimal configuration and product selection
- High availability through professional warehouse management
- Fast delivery in throughout Europe
- Short response times and professional order processing due to full digitalization throughout the entire process with complete traceability
- Incoming goods inspection include checks of the DRAMs, PCBs and the programmed SPDs in order to exclude possible errors (Controlled BOM).
- PHS-memory® brand memories guarantee 100% compatibility to the specified system.
- PHS-memory® memories can be used together with existing memories in the device - depends on to the configuration rules of the system.
- The "fallback option" in the SPD of PHS-memory® allows DRAMs with higher clock rates to be operated together with older memory modules with lower clock rates within the system.
- Products with unique serial number for service and warranty
- Pre-sales and after-sales support by technically trained personnel

## Memory Specification



|                           |                         |
|---------------------------|-------------------------|
| Memory size               | 64GB                    |
| Memory technology         | DDR4                    |
| ECC support               | ja                      |
| JEDEC Norm                | PC4-19200               |
| DRAM Organization         | 4Gx4                    |
| Rank                      | 2Rx4                    |
| Type                      | LRDIMM (ECC LR DIMM)    |
| Number of pins            | 288 Pin DIMM            |
| Memory data transfer rate | 2400MHz @ CL17          |
| Voltage                   | 1,2 Volt                |
| Speciality                | -, DDP                  |
| Board dimensions          | 133,35 x 31,25 (LxB mm) |
| Operating temperature     | 0° C - 85° C            |
| Storage temperature       | -40° C - +95° C         |
| RoHS compliant            | Yes                     |
| SKU                       | SP189223                |
| EAN                       | 4055069578164           |

Note: The module specified in this datasheet is one of several possible configurations available under this part number.  
Some details may differ from the specifications described here and the illustration, but have no negative influence on the functionality.

## System Specifications

The memory is 100% compatible with this system:

|                                 |                                                                                                               |
|---------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>System manufacturer</b>      | Lenovo                                                                                                        |
| <b>Device type</b>              | Server                                                                                                        |
| <b>Device family</b>            | IBM System x                                                                                                  |
| <b>Device series</b>            | x3850 X6 Serie                                                                                                |
| <b>Device name</b>              | System x3850 X6 (6241) (DDR4)                                                                                 |
| <b>Maximum memory*</b>          | 12TB / 6TB according to manufacturer                                                                          |
| <b>Number of memory sockets</b> | 96                                                                                                            |
| <b>Annotation</b>               | RDIMM and LRDIMM can not be mixed. Only those memory slots can be used where the respective CPU is available. |

\* The specifications for the maximum memory upgrade may differ from those of the manufacturer Lenovo. Often the information given in the manual for the maximum memory upgrade is not up to date. New memory technologies, bios updates or newer software versions often allow the use of memory modules with a higher capacity than specified by the manufacturer with the same performance and stability.

## Information on memory allocation

### Which memory configuration is possible?

Gerne supports Sie unser memoryteam bei der Wahl des richtigen Computer memorys and Konfiguration Ihres Gerätes.

### Principles of memory assembly

- Eine CPU ist with 2 memorycontrollern ausgestattet. Jeder memorycontroller verfügt über 2 SMI (Scalable Memory Interface) with until zu 6 memory memory slotsn. Sowith kann eine CPU until zu 24 RAM memory adressieren (2 Controller x 2 SMI x 6 DIMM memory slots)
- Registered DIMM and Load Reduced LRDIMM memory modules must not be mixed
- Bei einer Aufrüstung sollten Sie deshalb wissen, welche memory bereits vorhanden sind or komplett with LRDIMMcomputer memory upgrade.
- memorysteckplätze for die kein Prozessor vorhanden ist dürfen nicht bestückt werden

### Memory configuration for good system performance

- When equipped with 8 DIMMs (1 DimmPerChannel) , 16 DIMMs (2 DPC) or 24 DIMMs (3 DPC) per CPU, interleaving is optimally supported via the memory controllers and memory channels. This enables maximum performance in independent mode and lockstep mode.
- Um die angestrebte capacity zu erreichen können Sie with folgenden Formeln die richtigen memorykapazitäten and die richtige Count erwithteln:
  - Für die Size der memory: gewünschte capacity in GB / (8 memory Channel x DimmsProChannel (1 DPC, 2 DPC or 3 DPC) x Count der CPUs) = DIMM capacity in GB
  - Für die Count der memory: gewünschte capacity in GB / DIMM capacity in GB
  - Beispiel: gewünschte capacity = 1536GB im 3 DPC Mode with 4 CPUs
  - Size der memory: 1536GB / (8 x 3 x 4) = 16GB pro DIMM

- Count der memory:  $1536\text{GB} / 16\text{GB} = 96$  DIMMs
- Bestückungen with 2 DIMMs, 6 DIMMs or 10 DIMMs pro CPU sind theoretisch möglich aber nicht empfehlenswert.
- Wenn mehr als eine CPU vorhanden sind, sollten die memory pro CPU identisch (gespiegelt zur anderen CPU) bestückt werden

### Partnumber / Feature Code DDR4 Compute Book:

00WH302 ATX1 / ATXR  
00WH306 ATX2 / ATXS  
00WH310 ATX3 / ATXT  
00WH314 ATX4 / ATXU  
00KH384 ATWZ / ATYF  
00WH322 ATX6 / ATXW  
00WH318 ATX5 / ATXV  
00WH326 ATX7 / ATXX  
00WH330 ATX8 / ATXY  
00WH334 ATX9 / ATXZ  
00WH342 ATXB / ATY1  
00WH346 ATXC / ATY2  
00ML950 AS84 / AS8U  
00ML954 AS85 / AS8V  
00ML958 AS86 / AS8W  
00ML962 AS87 / AS8X  
00ML970 AS88 / AS8Y  
00FP696 AS7S / AS8G  
00ML974 AS89 / AS8Z  
00ML978 AS8A / AS90  
00ML986 AS8C / AS92  
00ML982 AS8B / AS91  
00ML990 AS8D / AS93  
00ML994 AS8E / AS94

## Information on memory installation

- Turn off the system
- Remove the plug of the power supply unit (if connected)
- Remove the battery, according to the user manual of the system
- Always ground yourself before touching electronic components
- Protect the memory module from static voltages:
  - Do not touch the gold pins of the memory module
  - Only touch the sides of the memory module
  - Use a grounding strap and/or ESD glove if possible

General installation instructions are supplied by E-Mail.

## Further memory options for Lenovo System x3850 X6 (6241) (DDR4)

| Size  | SKU      | Technology | Type                     | Number of pins | Brand       | Reference no. |
|-------|----------|------------|--------------------------|----------------|-------------|---------------|
| 8GB   | SP189231 | DDR4       | RDIMM (ECC Registered)   | 288 Pin DIMM   | PHS-memory® |               |
| 16GB  | SP189225 | DDR4       | RDIMM (ECC Registered)   | 288 Pin DIMM   | PHS-memory® |               |
| 32GB  | SP189229 | DDR4       | RDIMM (ECC Registered)   | 288 Pin DIMM   | PHS-memory® |               |
| 64GB  | SP464821 | DDR4       | RDIMM (ECC Registered)   | 288 Pin DIMM   | PHS-memory® |               |
| 64GB  | SP189223 | DDR4       | LRDIMM (ECC LR DIMM)     | 288 Pin DIMM   | PHS-memory® |               |
| 128GB | SP464820 | DDR4       | LRDIMM (ECC LR DIMM) 3DS | 288 Pin DIMM   | PHS-memory® |               |

## PHS-memory® warranty

Every PHS-memory® is equipped with a 5-years-warranty of perfect operation. If the RAM module is defective or fails within 5 years of purchase when used properly, you will receive an appropriate RAM module free of charge. If a suitable memory module is no longer available, we will refund the purchase price.

For more information on warranty and service please visit <https://www.phs-memory.com/-W5Y>



## Contact Information

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