

## 32GB Computer memory DDR3 for Lenovo Flex System x240 8737 (E5-2600 Prozessor) LRDIMM



**phs** memory®

**51,68 EUR**

plus VAT

**61,50 EUR**

incl. VAT

immediately available

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Version: 29.07.2025 18:09

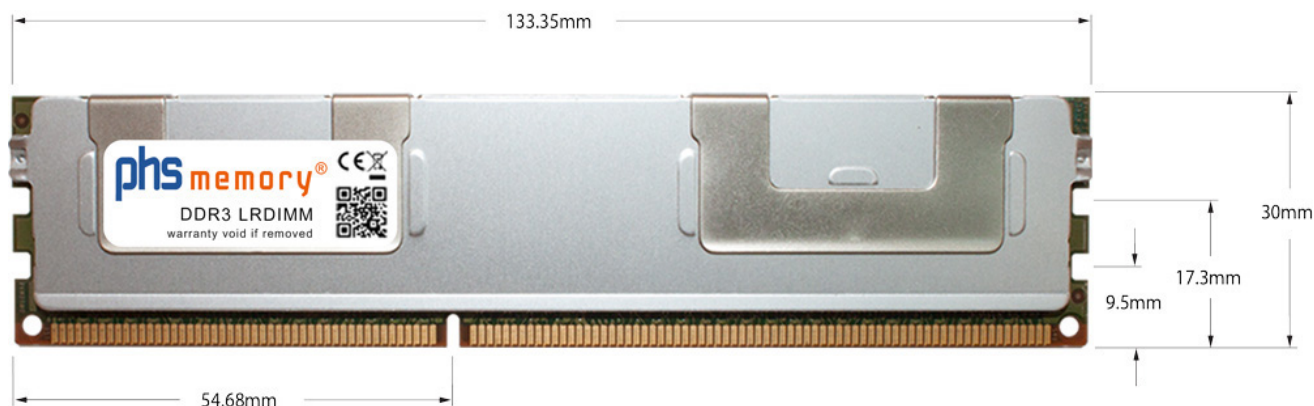
### Your benefits

- ✓ 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               | 32GB                 |
| Memory technology         | DDR3                 |
| ECC support               | ja                   |
| JEDEC Norm                | PC3L-12800L          |
| DRAM Organization         | 2Gx4                 |
| Rank                      | 4Rx4 (4DRx4 DDP)     |
| Type                      | LRDIMM (ECC LR DIMM) |
| Number of pins            | 240 Pin DIMM         |
| Memory data transfer rate | 1600MHz @ CL11       |
| Voltage                   | 1,35 Volt            |
| Speciality                | DDP                  |
| Board dimensions          | 133,35 x 30 (LxB mm) |
| Operating temperature     | 0° C - 85° C         |
| Storage temperature       | -40° C - +95° C      |
| RoHS compliant            | Yes                  |
| SKU                       | SP189272             |
| EAN                       | 4055069578553        |

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 sytem:

|                          |                                                                                                                                                                                                                                              |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System manufacturer      | Lenovo                                                                                                                                                                                                                                       |
| Device type              | Server                                                                                                                                                                                                                                       |
| Device family            | IBM Flex System                                                                                                                                                                                                                              |
| Device series            | x240 Serie                                                                                                                                                                                                                                   |
| Device name              | Flex System x240 8737 (E5-2600 Prozessor)                                                                                                                                                                                                    |
| Standard memory          | 8GB (2x4GB)                                                                                                                                                                                                                                  |
| Maximum memory*          | 768GB                                                                                                                                                                                                                                        |
| Number of memory sockets | 24                                                                                                                                                                                                                                           |
| Annotation               | ECC DIMM, Registered DIMM and Load Reduced LRDIMM memory modules must not be mixed. You should therefore know which memories already exist, when you want to upgrade. Memory slots for which no processor is available must not be equipped. |

\* 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?

Our memory team will be happy to help you choose the right memory and configure your server.

| Technologie | 1 CPU 12Slot          | 2 CPU 24Slot          |
|-------------|-----------------------|-----------------------|
| UDIMM ECC   | 64GB RAM (8 x 8GB)    | 128GB RAM (16 x 8GB)  |
| RDIMM       | 192GB RAM (12 x 16GB) | 384GB RAM (24 x 16GB) |
| LRDIMM      | 384GB RAM (12 x 32GB) | 768GB RAM (24 x 32GB) |

### Principles of memory assembly

- Each CPU has 4 memory channels with 3 memory slots each
- ECC DIMM, 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 auf RDIMM or LRDIMMcomputer memory upgrade.

- When using ECC UDIMM memories, only 2 of 3 memory slots can be used per memory channel
- memorysteckplätze für die kein Prozessor vorhanden ist dürfen nicht bestückt werden
- Höhere memoryfrequenzen passen sich ggf. anderen memorytaktungen in der Systemumgebung an und unterstützen entsprechend langsamere Taktraten
- The low voltage memories with 1.35V are clocked with 1.5V when mixed with 1.5V memories via the fallback option in the memory.

### Memory configuration for good system performance

- Verteilen Sie die memory gleichmäßig auf die memorysteckplätze and gleichmäßig auf die CPUs
- Wenn mehr als eine CPU vorhanden sind, sollten die memory pro CPU identisch (gespiegelt zur anderen CPU) bestückt werden.

### 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 Flex System x240 8737 (E5-2600 Prozessor)

| Size | SKU      | Technology | Type                       | Number of pins | Brand       | Reference no. |
|------|----------|------------|----------------------------|----------------|-------------|---------------|
| 4GB  | SP189270 | DDR3       | UDIMM ECC (ECC unbuffered) | 240 Pin DIMM   | PHS-memory® | 49Y1404       |
| 8GB  | SP464831 | DDR3       | UDIMM ECC (ECC unbuffered) | 240 Pin DIMM   | PHS-memory® |               |
| 8GB  | SP189278 | DDR3       | RDIMM (ECC Registered)     | 240 Pin DIMM   | PHS-memory® | 90Y3109       |
| 16GB | SP189273 | DDR3       | RDIMM (ECC Registered)     | 240 Pin DIMM   | PHS-memory® | 46W0672       |
| 32GB | SP464832 | DDR3       | RDIMM (ECC Registered)     | 240 Pin DIMM   | PHS-memory® |               |
| 32GB | SP189272 | DDR3       | LRDIMM (ECC LR DIMM)       | 240 Pin DIMM   | PHS-memory® | 90Y3105       |

## 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

PHS-electronic gmbh  
- [www.phs-memory.com](http://www.phs-memory.com) -  
Karl-Götz-Str. 5  
97424 Schweinfurt  
Germany

Phone: +49 9721 784678  
E-Mail: [info@phs-memory.com](mailto:info@phs-memory.com)  
Web: [www.phs-memory.com](http://www.phs-memory.com)

All information without guarantee. Technical changes and errors excepted. You can find current price information in our online shop at <https://www.phs-memory.com>