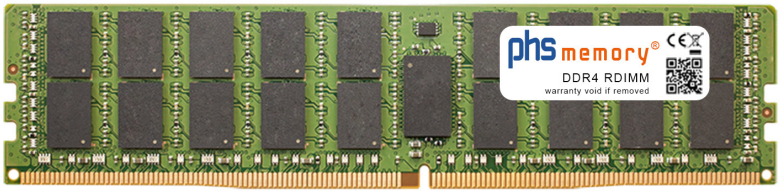
# 32GB Computer memory DDR4 for Lenovo ThinkServer RD450 (70DC) RDIMM

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- verified quality memory
- 5 years warranty
  Warranty details see last page
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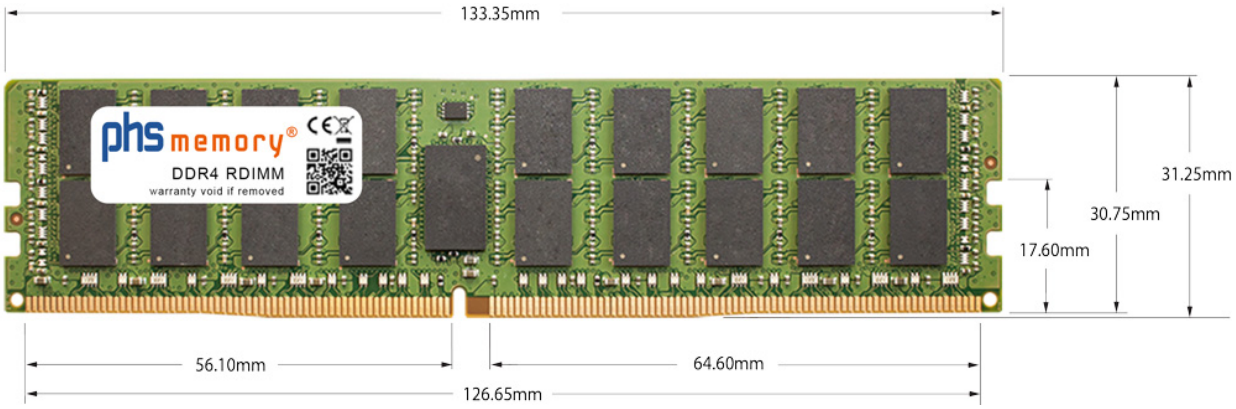
# Memory Specification




| | |
|---|---|
| **Memory size** | 32GB |
| **Memory technology** | DDR4 |
| **ECC support** | ja |
| **JEDEC Norm** | PC4-17000R |
| **DRAM Organization** | 2Gx4 |
| **Rank** | 2Rx4 |
| **Type** | RDIMM (ECC Registered) |
| **Number of pins** | 288 Pin DIMM |
| **Memory data transfer rate** | 2133MHz @ CL15 |
| **Voltage** | 1,2 Volt |
| **Speciality** | - |
| **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** | SP246160 |
| **EAN** | 4063369140356 |

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.

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# System Specifications

The memory is 100% compatible with this sytem:

| | |
|---|---|
| **System manufacturer** | Lenovo |
| **Device type** | Server |
| **Device family** | ThinkServer |
| **Device series** | RD400 Serie |
| **Device name** | ThinkServer RD450 (70DC) |
| **Maximum memory*** | 4TB / 1TB according to manufacturer |
| **Number of memory sockets** | 16 |

* 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

## Information on memory configuration

The following technical specifications should be considered in advance:

- The system supports RDIMM and RDIMM 3DS (Registered DIMM) or LRDIMM and LRDIMM 3DS (Load Reduced DIMM) memory modules. Large memory capacities can be realised with LRDIMM 3DS modules.
- RDIMM and RDIMM 3DS memory modules cannot be operated together with LRDIMM and LRDIMM 3DS main memories.
- If a memory expansion is to be made with the already existing RAM memories, it must be checked which basic memory technology (RDIMM / LRDIMM) is available.
- Memory slots without a processor may not be used.
- If memory modules are provided with higher speeds than specified by the system, the memory speed is automatically adjusted to the system specifications.

### memory for Intel Xeon CPUs:

| CPU / System | RDIMM | LRDIMM |
|---|---|---|
| Xeon E5-16xx v3<br>Xeon E5-26xx v3<br>Xeon E5-46xx v3 | 8GB RDIMM<br>16GB RDIMM<br>32GB RDIMM<br>64GB RDIMM DDP<br>128GB RDIMM 3DS<br>256GB RDIMM 3DS | 32GB LRDIMM<br>64GB LRDIMM DDP<br>128GB LRDIMM DDP<br>128GB LRDIMM 3DS<br>256GB LRDIMM 3DS |

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## 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.

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## Further memory options for Lenovo ThinkServer RD450 (70DC)

| Size | SKU | Technology | Type | Number of pins | Brand | Reference no. |
|---|---|---|---|---|---|---|
| 8GB | SP246159 | DDR4 | RDIMM (ECC Registered) | 288 Pin DIMM | PHS-memory® | |
| 16GB | SP246158 | DDR4 | RDIMM (ECC Registered) | 288 Pin DIMM | PHS-memory® | |
| 32GB | SP246160 | DDR4 | RDIMM (ECC Registered) | 288 Pin DIMM | PHS-memory® | |
| 64GB | SP466401 | DDR4 | RDIMM (ECC Registered) 3DS | 288 Pin DIMM | PHS-memory® | |
| 64GB | SP246157 | DDR4 | LRDIMM (ECC LR DIMM) | 288 Pin DIMM | PHS-memory® | |
| 128GB | SP466402 | DDR4 | RDIMM (ECC Registered) 3DS | 288 Pin DIMM | PHS-memory® | |
| 128GB | SP466399 | DDR4 | LRDIMM (ECC LR DIMM) 3DS | 288 Pin DIMM | PHS-memory® | |
| 256GB | SP466403 | DDR4 | RDIMM (ECC Registered) 3DS | 288 Pin DIMM | PHS-memory® | |
| 256GB | SP466400 | 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.it/-W5Y

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