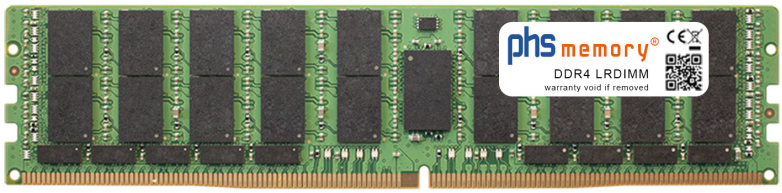
# 128GB Computer memory DDR4 for Dell PowerEdge R640 LRDIMM

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  Warranty details see last page
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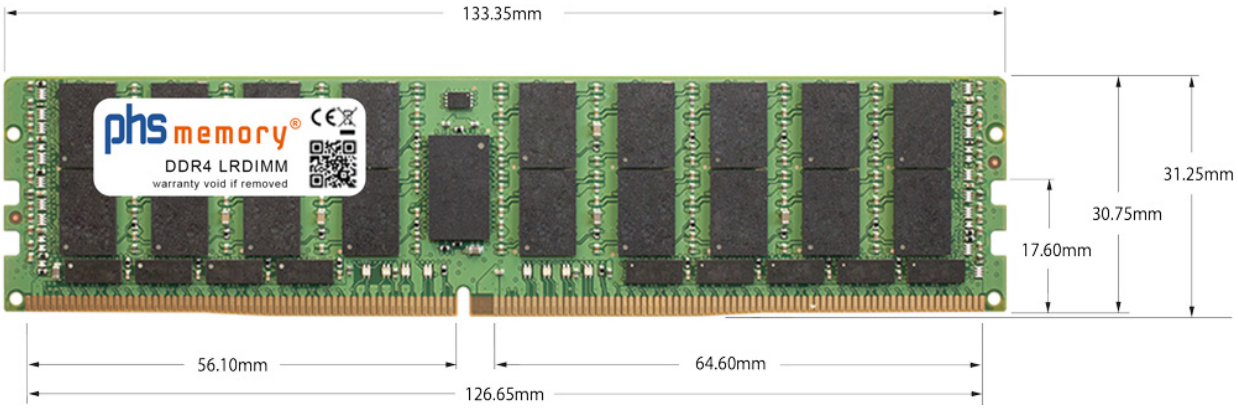
## Memory Specification




| | |
|---|---|
| **Memory size** | 128GB |
| **Memory technology** | DDR4 |
| **ECC support** | yes |
| **JEDEC Norm** | PC4-25600-L |
| **DRAM Organization** | 8Gx4 |
| **Rank** | 4Rx4 (4DRx4 DDP) |
| **Type** | LRDIMM (ECC LR DIMM) |
| **Number of pins** | 288 Pin DIMM |
| **Memory data transfer rate** | 3200MHz @ CL22 |
| **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** | SP320180 |
| **EAN** | 4063369833197 |

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** | Dell |
| **Device type** | Server |
| **Device family** | PowerEdge |
| **Device series** | R600 Serie |
| **Device name** | PowerEdge R640 |
| **Maximum memory*** | 3TB |
| **Number of memory sockets** | 24 |
| **Annotation** | Registered DIMM and Load Reduced LRDIMM memory modules must not be mixed. 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 Dell. 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.
- When using a multiprocessor system, the memory slots should always be configured identically for each CPU.
- 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.
- The CPU supports 6 DIMMs per memory channel.

### Maximum memory speed of possible CPUs

Xeon CPUs of the 1nd generation are offered in Bronze, Silver, Gold or Platinum. The different processor series also support different maximum memory speeds:

| Xeon | CPU-series | max. Speed MHz | max. memory capacity je CPU |
|---|---|---|---|
| Bronze | 3100 | 2133 | 768 GB |
| Silver | 4100 | 2400 | 768 GB |
| | | | |

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| | | | |
|---|---|---|---|
| Gold | 5100 | 2666 | 768 GB |
| Gold | 6100 | 2666 | 768 GB |
| Platinum | 8100 | 2666 | 768 GB |

## 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 Dell PowerEdge R640

| Size | SKU | Technology | Type | Number of pins | Brand | Reference no. |
|---|---|---|---|---|---|---|
| 16GB | SP242671 | DDR4 | RDIMM (ECC Registered) | 288 Pin DIMM | PHS-memory® | |
| 32GB | SP242672 | DDR4 | RDIMM (ECC Registered) | 288 Pin DIMM | PHS-memory® | SNPTN78YC/32G, A9781929, 370-ADNF, SNP75X1VC/32G, AA799087, AA579531, SNP8WKDYC/32G |
| 64GB | SP377071 | DDR4 | RDIMM (ECC Registered) | 288 Pin DIMM | PHS-memory® | AA783423, SNPP2MYXC/64G, AA799110, AA579530, SNPW403YC/64G |
| 64GB | SP242670 | DDR4 | LRDIMM (ECC LR DIMM) | 288 Pin DIMM | PHS-memory® | SNP4JMGMC/64G, A9781930 |
| 128GB | SP320180 | DDR4 | LRDIMM (ECC LR DIMM) | 288 Pin DIMM | PHS-memory® | |
| 128GB | SP466232 | DDR4 | RDIMM (ECC Registered) 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

5 Jahre Garantie

## Contact Information

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