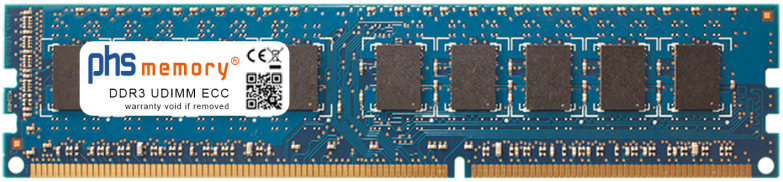
# 4GB Computer memory DDR3 for Dell PowerEdge M610x UDIMM ECC

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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
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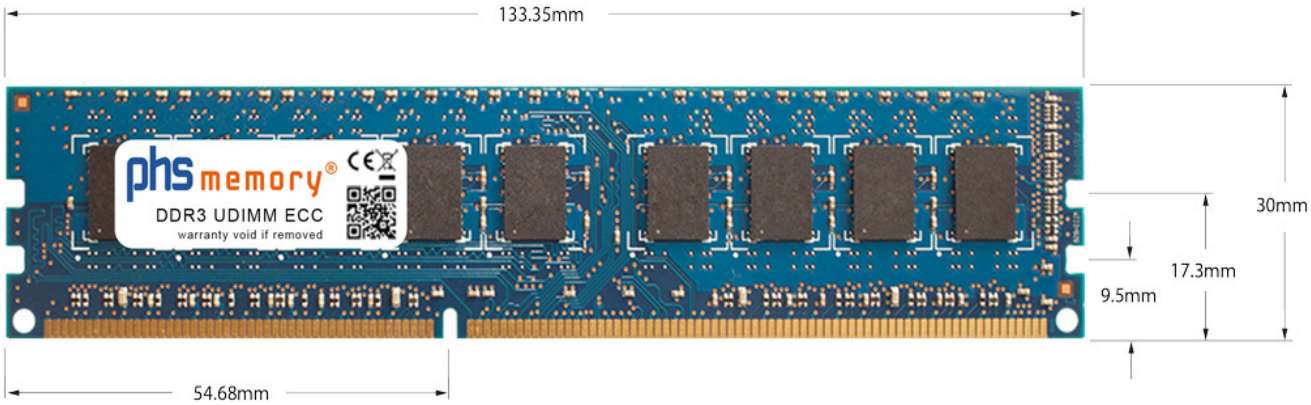
## Memory Specification




| | |
|---|---|
| **Memory size** | 4GB |
| **Memory technology** | DDR3 |
| **ECC support** | ja |
| **JEDEC Norm** | PC3-10600E |
| **DRAM Organization** | 256Mx8 |
| **Rank** | 2Rx8 |
| **Type** | UDIMM ECC (ECC unbuffered) |
| **Number of pins** | 240 Pin DIMM |
| **Memory data transfer rate** | 1333MHz @ CL9 |
| **Speciality** | - |
| **Board dimensions** | 133,35 x 30 (LxB mm) |
| **Operating temperature** | 0° C - 85° C |
| **Storage temperature** | -40° C - +95° C |
| **RoHS compliant** | Yes |
| **SKU** | SP148098 |
| **EAN** | 4055069225259 |

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** | M600 Serie |
| **Device name** | PowerEdge M610x |
| **Maximum memory*** | 384GB |
| **Number of memory sockets** | 12 |
| **Annotation** | You can use ECC UDIMM or RDIMM, but not mixed in the server. 96GB maximum with UDIMM (12 x 8GB) 384GB maximum with RDIMM (12 x 32GB). Optimal performance: Distribute the memories evenly across the memory slots and CPUs. We are happy to advise you! |

* 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

### Computer memory configuration:

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

| Technologie | GB /Modul | Anzahl | Total |
|---|---|---|---|
| UDIMM ECC | 8GB RAM | 12 | 96GB |
| RDIMM | 16GB RAM | 12 | 192GB |
| RDIMM | 32GB RAM | 12 | 384GB |

UDIMM ECC memory and RDIMM (Registered) server memory can not be shared. Bei einer Aufrüstung sollten Sie deshalb wissen, welche memory bereits vorhanden sind, or komplett auf RDIMMcomputer memory upgrade.

Principles of memory assembly

- Es können nur die memorysteckplätze genutzt werden, bei denen die jeweilige CPU vorhanden ist.

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.

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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 Dell PowerEdge M610x

| Size | SKU | Technology | Type | Number of pins | Brand | Reference no. |
|---|---|---|---|---|---|---|
| 4GB | SP148098 | DDR3 | UDIMM ECC (ECC unbuffered) | 240 Pin DIMM | PHS-memory® | SNPYWJTRC/4G, A7303660 |
| 8GB | SP148106 | DDR3 | RDIMM (ECC Registered) | 240 Pin DIMM | PHS-memory® | SNPP9RN2C/8G, A6996808, SNPPKCG9C/8G, A7990613 |
| 8GB | SP148099 | DDR3 | UDIMM ECC (ECC unbuffered) | 240 Pin DIMM | PHS-memory® | SNP96MCTC/8G, A6960121 |
| 16GB | SP148100 | DDR3 | RDIMM (ECC Registered) | 240 Pin DIMM | PHS-memory® | SNPMGY5TC/16G, A6996789, SNP20D6FC/16G, A6994465, JR5VJ, 319-1815, 370-23526 |
| 32GB | SP148102 | DDR3 | RDIMM (ECC Registered) | 240 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

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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

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