

# 96GB Computer memory DDR5 for Dell PowerEdge R660 RDIMM





# 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	96GB		
Memory technology	DDR5		
ECC support	ja		
JEDEC Norm	PC5-38400R		
DRAM Organization	6Gx4		
Rank	2Rx4		
Туре	RDIMM (ECC Registered)		
Number of pins	288 Pin DIMM		
Memory data transfer rate	4800MHz		
Voltage	1,1 Volt		
Speciality	-		
Operating temperature	0° C - 85° C		
Storage temperature	-40° C - +95° C		
RoHS compliant	Yes		
SKU	SP488578		
EAN	4067488524202		

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	Dell
Device type	Server
Device family	PowerEdge
Device series	R600 Serie
Device name	PowerEdge R660
Maximum memory*	8TB / 4TB according to manufacturer
Number of memory sockets	32

<sup>\*</sup> 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.
- Memory slots without a processor may not be used.
- A higher memory clock of the memory module automatically adapts to the memory clock specified by the system. This can be the case especially with larger capacities.

### 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 Dell PowerEdge R660

16GB         SP454143         DDR5         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®           24GB         SP488574         DDR5         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®           32GB         SP454144         DDR5         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®         AC239378           48GB         SP488575         DDR5         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®         370-AGZR           64GB         SP454146         DDR5         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®         370-AGZR           96GB         SP488578         DDR5         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®         370-AGZM           128GB         SP454147         DDR5         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®         370-AGZM           256GB         SP454148         DDR5         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®	Size	SKU	Technology	Туре	Number of pins	Brand	Reference no.
Registered)           32GB         SP454144         DDR5         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®         AC239378           48GB         SP488575         DDR5         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®           64GB         SP454146         DDR5         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®         370-AGZR           96GB         SP488578         DDR5         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®         370-AGZM           128GB         SP454147         DDR5         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®         370-AGZM           256GB         SP454148         DDR5         RDIMM (ECC 288 Pin DIMM         PHS-memory®	16GB	SP454143	DDR5	•	288 Pin DIMM	PHS-memory®	
Registered)           48GB         SP488575         DDR5         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®           64GB         SP454146         DDR5         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®         370-AGZR           96GB         SP488578         DDR5         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®           128GB         SP454147         DDR5         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®         370-AGZM           256GB         SP454148         DDR5         RDIMM (ECC 288 Pin DIMM         PHS-memory®	24GB	SP488574	DDR5	•	288 Pin DIMM	PHS-memory®	
Registered)           64GB         SP454146         DDR5         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®         370-AGZR           96GB         SP488578         DDR5         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®           128GB         SP454147         DDR5         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®         370-AGZM           256GB         SP454148         DDR5         RDIMM (ECC 288 Pin DIMM         PHS-memory®	32GB	SP454144	DDR5	•	288 Pin DIMM	PHS-memory®	AC239378
Registered)           96GB         SP488578         DDR5         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®           128GB         SP454147         DDR5         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®         370-AGZM           256GB         SP454148         DDR5         RDIMM (ECC 288 Pin DIMM         PHS-memory®	48GB	SP488575	DDR5	•	288 Pin DIMM	PHS-memory®	
Registered)           128GB         SP454147         DDR5         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®         370-AGZM           256GB         SP454148         DDR5         RDIMM (ECC 288 Pin DIMM PHS-memory®	64GB	SP454146	DDR5	`	288 Pin DIMM	PHS-memory®	370-AGZR
Registered) 3DS  256GB SP454148 DDR5 RDIMM (ECC 288 Pin DIMM PHS-memory®	96GB	SP488578	DDR5	•	288 Pin DIMM	PHS-memory®	
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	256GB	SP454148	DDR5	•	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



### Contact Information

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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.it