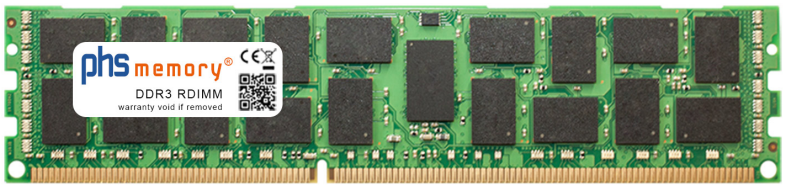
# 16GB Computer memory DDR3 for HP ProLiant DL1000 Gen1 (G1) RDIMM




**42,27 EUR**
plus VAT
**50,30 EUR**
incl. VAT

in magazzino
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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
- 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

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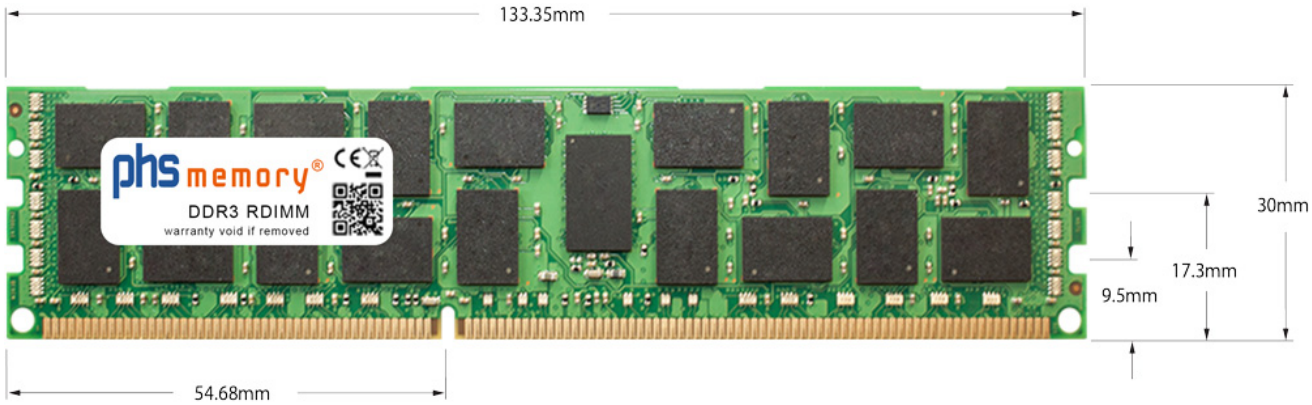
## Memory Specification




| | |
|---|---|
| **Memory size** | 16GB |
| **Memory technology** | DDR3 |
| **ECC support** | ja |
| **JEDEC Norm** | PC3-10600R |
| **DRAM Organization** | 1Gx4 |
| **Rank** | 2Rx4 |
| **Type** | RDIMM (ECC Registered) |
| **Number of pins** | 240 Pin DIMM |
| **Memory data transfer rate** | 1333MHz @ CL9 |
| **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** | SP170816 |
| **EAN** | 4055069406795 |

### overRAMing - maximize your RAM

overRAMing Project

Most systems - including the HP ProLiant DL1000 Gen1 (G1) - can be upgraded with more memory than originally specified by the device manufacturer.

Therefore, our memory specialists continuously analyze new memory solutions in selected systems. Due to improved manufacturing technologies, new memories with higher performance and capacity will be tested for stability and functionality.
Then the new memory solutions are released for the respective systems. Use the benefits of larger computer memory capacity with the PHS-memory® overRAMing memory solutions.

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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** | HP |
| **Device type** | Server |
| **Device family** | ProLiant |
| **Device series** | DL1000 Serie |
| **Device name** | ProLiant DL1000 Gen1 (G1) |
| **Maximum memory*** | 512GB / 192GB according to manufacturer |
| **Number of memory sockets** | 16 |
| **Annotation** | You can use ECC UDIMM or RDIMM, but not mixed in the server. 48GB maximum with UDIMM (12 x 4GB) 192GB maximum with RDIMM (12 x 16GB). 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 HP. 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.

Memory modules with our overRAMing-symbol are approved by us for maximum memory expansion.

# 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 | 4GB RAM | 12 | 48GB |
| RDIMM | 16GB RAM | 12 | 192GB |

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

- Die memorysteckplätze sind in 3er Gruppen organisiert
- Pro 3er Gruppe jeweils nur max. 2 Slots for UDIMM ECC memory
- Pro 3er Gruppe jeweils nur max. 2 Slots for 4Rank RDIMM memory
- Die verschiedenen 3er Steckplatzgruppen müssen nicht die gleichen Kapazitäten haben
- Es können nur die memorysteckplätze genutzt werden, bei denen die jeweilige CPU vorhanden ist.

Memory configuration for good system performance

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- Verteilen Sie die memory gleichmäßig auf die memorysteckplätze and gleichmäßig auf die CPUs
- Bei jeweils 3 gleichen memoryn pro 3er Steckplatzgruppe, ist die Performance until zum 3fachen schneller gegenüber einer Bestückung der 3er Steckplatzgruppe with nur einem memory
- 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.

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## Further memory options for HP ProLiant DL1000 Gen1 (G1)

| Size | SKU | Technology | Type | Number of pins | Brand | Reference no. |
|---|---|---|---|---|---|---|
| 4GB | SP170815 | DDR3 | UDIMM ECC (ECC unbuffered) | 240 Pin DIMM | PHS-memory® | 500672-B21 |
| 8GB | SP170818 | DDR3 | RDIMM (ECC Registered) | 240 Pin DIMM | PHS-memory® | 500662-B21 |
| 8GB | SP464526 | DDR3 | UDIMM ECC (ECC unbuffered) | 240 Pin DIMM | PHS-memory® | |
| 16GB | SP170816 | DDR3 | RDIMM (ECC Registered) | 240 Pin DIMM | PHS-memory® | 500666-B21 |
| 32GB | SP464527 | 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.it/-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.it

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