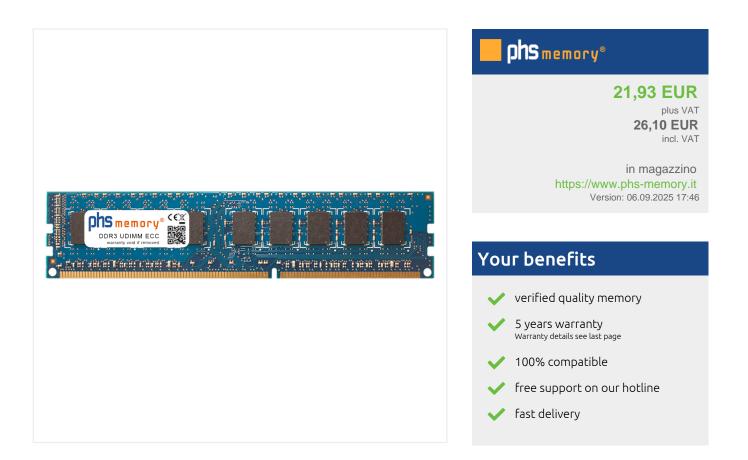
# phs memory®

# 4GB Computer memory DDR3 for HP ProLiant SL165z Gen7 (G7) UDIMM ECC



## 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

-	133.35mm			
		9.5mm	17.3mm	30mm
-		t		

Memory size	4GB
Memory technology	DDR3
ECC support	ја
JEDEC Norm	PC3-10600E
Туре	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	SP184514
EAN	4055069533866

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	HP		
Device type	Server		
Device family	ProLiant		
Device series	SL165 Serie		
Device name	ProLiant SL165z Gen7 (G7)		
Maximum memory*	768GB		
Number of memory sockets	24		

\* 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.

## Information on memory allocation

#### Information on memory configuration

The following technical specifications should be considered in advance:

- The device supports ECC DIMM (with error correction code) or RDIMM (Registered DIMM) RAM memories. RDIMM memories are recommended when large memory capacities are to be achieved.
- The different memory technologies (ECC / RDIMM) may not be mixed.
- Falls eine memory extension with den bereits vorhandenen RAM-memoryn vorgenommen werden soll, muss gepr
  üft werden, welche memory-Technology (ECC / RDIMM) vorhanden ist.
- Memory slots without a processor may not be used.
- When using a multiprocessor system, the memory slots should always be configured identically for each CPU.
- 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.

#### memory allocation for system performance

- Optimal performance is achieved by 4 or 8 identical memories per CPU
- The memory should be populated identically per CPU (mirrored to the other CPU).

#### Supported RAM speed of the AMD CPUs

CPU	Technology	Speed
Opteron 61xx	DDR3 ECC / RDIMM	1333 MHz
Opteron 62xx	DDR3 ECC / RDIMM	1600 MHz
Opteron 63xx	DDR3 ECC / RDIMM	1866 MHz

## 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 HP ProLiant SL165z Gen7 (G7)

Size	SKU	Technology	Туре	Number of pins	Brand	Reference no.
4GB	SP184514	DDR3	UDIMM ECC (ECC unbuffered)	240 Pin DIMM	PHS-memory®	
8GB	SP184519	DDR3	RDIMM (ECC Registered)	240 Pin DIMM	PHS-memory®	
8GB	SP184515	DDR3	UDIMM ECC (ECC unbuffered)	240 Pin DIMM	PHS-memory®	
16GB	SP184516	DDR3	RDIMM (ECC Registered)	240 Pin DIMM	PHS-memory®	
32GB	SP184517	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



## 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