

## 4GB Computer memory DDR4 for Gigabyte GAMING GA-X99 WIFI (rev. 1.0) UDIMM




**24,54 EUR**

plus VAT

**29,20 EUR**

incl. VAT

immediately available

<https://www.phs-memory.com>

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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

## Memory Specification



<b>Memory size</b>	4GB
<b>Memory technology</b>	DDR4
<b>ECC support</b>	no
<b>JEDEC Norm</b>	PC4-2133P-U
<b>Type</b>	UDIMM (Non-ECC unbuffered)
<b>Number of pins</b>	288 Pin DIMM
<b>Memory data transfer rate</b>	2133MHz @ CL15
<b>Voltage</b>	1,2 Volt
<b>Speciality</b>	-
<b>Board dimensions</b>	133,35 x 31,25 (LxB mm)
<b>Operating temperature</b>	0° C - 85° C
<b>Storage temperature</b>	-40° C - +95° C
<b>RoHS compliant</b>	yes
<b>SKU</b>	SP223569
<b>EAN</b>	4055069915228

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 system:

<b>System manufacturer</b>	Gigabyte
<b>Device type</b>	Motherboard-memory
<b>Device family</b>	GAMING
<b>Device series</b>	GA Serie
<b>Device name</b>	GAMING GA-X99 WIFI (rev. 1.0)
<b>Maximum memory*</b>	2TB / 512GB according to manufacturer
<b>Number of memory sockets</b>	8

\* The specifications for the maximum memory upgrade may differ from those of the manufacturer Gigabyte. 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:

- Im Gerät können RDIMM and UDIMM RAM-memory installiert werden.
- RDIMM and RDIMM 3DS memory modules können nicht zusammen with UDIMM Computer memoryn gemischt betrieben werden.
- Falls eine memory extension with den bereits vorhandenen RAM-memoryn vorgenommen werden soll, muss geprüft werden, welche Basis-memorytechnologie (RDIMM / UDIMM) vorhanden ist.
- 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.

### memory for Intel Xeon CPUs:

CPU / System	RDIMM	
Xeon E5-16xx v3	8GB RDIMM	
Xeon E5-26xx v3	16GB RDIMM	
Xeon E5-46xx v3	32GB RDIMM	
	64GB RDIMM DDP	
	128GB RDIMM 3DS	
	256GB RDIMM 3DS	

## 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 Gigabyte GAMING GA-X99 WIFI (rev. 1.0)

Size	SKU	Technology	Type	Number of pins	Brand	Reference no.
4GB	SP223569	DDR4	UDIMM (Non-ECC unbuffered)	288 Pin DIMM	PHS-memory®	
8GB	SP223570	DDR4	UDIMM (Non-ECC unbuffered)	288 Pin DIMM	PHS-memory®	
8GB	SP223567	DDR4	RDIMM (ECC Registered)	288 Pin DIMM	PHS-memory®	
16GB	SP223568	DDR4	UDIMM (Non-ECC unbuffered)	288 Pin DIMM	PHS-memory®	
16GB	SP223565	DDR4	RDIMM (ECC Registered)	288 Pin DIMM	PHS-memory®	
32GB	SP223566	DDR4	RDIMM (ECC Registered)	288 Pin DIMM	PHS-memory®	
32GB	SP305739	DDR4	UDIMM (Non-ECC unbuffered)	288 Pin DIMM	PHS-memory®	
64GB	SP465720	DDR4	RDIMM (ECC Registered) 3DS	288 Pin DIMM	PHS-memory®	
128GB	SP465721	DDR4	RDIMM (ECC Registered) 3DS	288 Pin DIMM	PHS-memory®	
256GB	SP465722	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>



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Garantie

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