

## 4GB Computer memory DDR4 for ASRock X99 OC Formula/3.1 UDIMM

**phs** memory®**24,54 EUR**

plus VAT

**29,20 EUR**

incl. VAT

en stock

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

Version: 05.08.2025 23:12

### 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>	SP159475
<b>EAN</b>	4055069310801

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>	ASRock
<b>Device type</b>	Motherboard-memory
<b>Device family</b>	Formula
<b>Device series</b>	X99 Serie
<b>Device name</b>	X99 OC Formula/3.1
<b>Maximum memory*</b>	2TB / 256GB according to manufacturer
<b>Number of memory sockets</b>	8
<b>Annotation</b>	Only use DDR4 UDIMM for your system if you have a Core i7 processor. If you have a Xeon CPU, you can use either ECC UDIMM or RDIMM memories. By the upgrading, you should therefore know which memories already exist or upgrade completely to RDIMM.

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

### Which memory configuration is possible?

#### memory for Core i7 5th Generation CPU:

- Optimal performance is achieved by 4 or 8 identical memories per CPU
- UDIMM memory können Sie nur verwenden, wenn Sie einen Core i7 Prozessor einsetzen.

#### memory for Xeon CPU:

- At deployment of a XEON CPU you may use ECC and RDIMM memory.
- ECC memory and RDIMM (Registered) Serverspeicher können nicht gemeinsam eingesetzt werden.

CPU im System	UDIMM	UDIMM ECC	RDIMM
Core i7-5960X	4GB UDIMM		
Core i7-5930K	8GB UDIMM		
Core i7-5820K			

Xeon E5-1600 v3		8GB UDIMM ECC	8GB RDIMM
Xeon E5-2600 v3			16GB RDIMM
			32GB RDIMM

## 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 ASRock X99 OC Formula/3.1

Size	SKU	Technology	Type	Number of pins	Brand	Reference no.
4GB	SP159475	DDR4	UDIMM (Non-ECC unbuffered)	288 Pin DIMM	PHS-memory®	
8GB	SP159476	DDR4	UDIMM (Non-ECC unbuffered)	288 Pin DIMM	PHS-memory®	
8GB	SP159473	DDR4	RDIMM (ECC Registered)	288 Pin DIMM	PHS-memory®	
8GB	SP159470	DDR4	UDIMM ECC (ECC unbuffered)	288 Pin DIMM	PHS-memory®	
16GB	SP160750	DDR4	RDIMM (ECC Registered)	288 Pin DIMM	PHS-memory®	
32GB	SP159472	DDR4	RDIMM (ECC Registered)	288 Pin DIMM	PHS-memory®	
64GB	SP464103	DDR4	RDIMM (ECC Registered) 3DS	288 Pin DIMM	PHS-memory®	
128GB	SP464104	DDR4	RDIMM (ECC Registered) 3DS	288 Pin DIMM	PHS-memory®	
256GB	SP464105	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.es/-W5Y>



## Contact Information

PHS-electronic gmbh  
- www.phs-memory.es -  
Karl-Götz-Str. 5  
97424 Schweinfurt  
Alemania

Phone: +49 9721 784678  
E-Mail: [info@phs-memory.es](mailto:info@phs-memory.es)  
Web: [www.phs-memory.es](http://www.phs-memory.es)

All information without guarantee. Technical changes and errors excepted. You can find current price information in our online shop at <https://www.phs-memory.es>