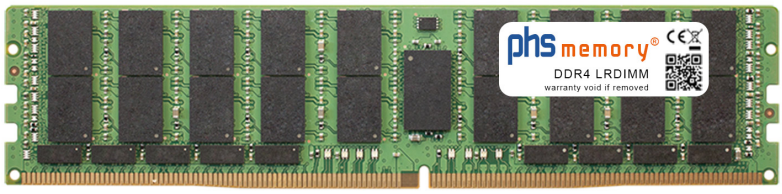
# 128GB Computer memory DDR4 for MSI Tomahawk X99A LRDIMM 3DS




Preis auf Anfrage

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Version: 20.08.2025 18:28

## 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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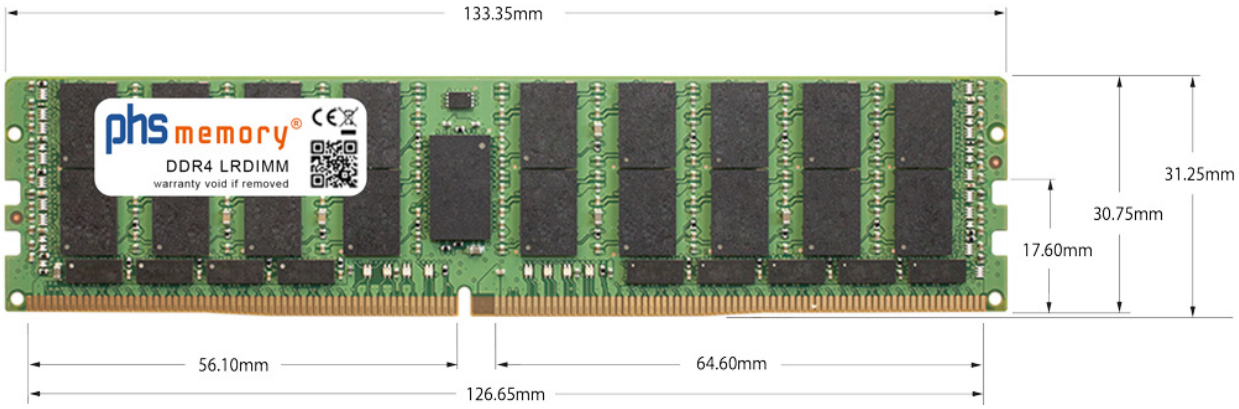
# Memory Specification




| | |
|---|---|
| **Memory size** | 128GB |
| **Memory technology** | DDR4 |
| **ECC support** | yes |
| **JEDEC Norm** | PC4-23400-L |
| **DRAM Organization** | 3DS 4H 8Gx4 |
| **Rank** | 8Rx4 (2S4Rx4) |
| **Type** | LRDIMM (ECC LR DIMM) 3DS |
| **Number of pins** | 288 Pin DIMM |
| **Memory data transfer rate** | 2933MHz @ CL21 |
| **Voltage** | 1,2 Volt |
| **Speciality** | 3DS |
| **Board dimensions** | 133,35 x 31,25 (LxB mm) |
| **Operating temperature** | 0° C - 85° C |
| **Storage temperature** | -40° C - +95° C |
| **RoHS compliant** | yes |
| **SKU** | SP467320 |
| **EAN** | 4067488308321 |

## overRAMing - maximize your RAM

overRAMing Project

Most systems - including the MSI Tomahawk X99A - 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** | MSI |
| **Device type** | Motherboard-memory |
| **Device family** | Tomahawk |
| **Device series** | X99A Serie |
| **Device name** | Tomahawk X99A |
| **Maximum memory*** | 2TB / 512GB according to manufacturer |
| **Number of memory sockets** | 8 |

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

## 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.
- 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 | LRDIMM |
|---|---|---|
| Xeon E5-16xx v3<br>Xeon E5-26xx v3<br>Xeon E5-46xx v3 | 8GB RDIMM<br>16GB RDIMM<br>32GB RDIMM<br>64GB RDIMM DDP<br>128GB RDIMM 3DS<br>256GB RDIMM 3DS | 32GB LRDIMM<br>64GB LRDIMM DDP<br>128GB LRDIMM DDP<br>128GB LRDIMM 3DS<br>256GB LRDIMM 3DS |

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## 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 MSI Tomahawk X99A

| Size | SKU | Technology | Type | Number of pins | Brand | Reference no. |
|---|---|---|---|---|---|---|
| 4GB | SP259415 | DDR4 | UDIMM (Non-ECC unbuffered) | 288 Pin DIMM | PHS-memory® | |
| 8GB | SP259416 | DDR4 | UDIMM (Non-ECC unbuffered) | 288 Pin DIMM | PHS-memory® | |
| 8GB | SP259413 | DDR4 | RDIMM (ECC Registered) | 288 Pin DIMM | PHS-memory® | |
| 16GB | SP259414 | DDR4 | UDIMM (Non-ECC unbuffered) | 288 Pin DIMM | PHS-memory® | |
| 16GB | SP259411 | DDR4 | RDIMM (ECC Registered) | 288 Pin DIMM | PHS-memory® | |
| 32GB | SP307671 | DDR4 | UDIMM (Non-ECC unbuffered) | 288 Pin DIMM | PHS-memory® | |
| 32GB | SP259412 | DDR4 | RDIMM (ECC Registered) | 288 Pin DIMM | PHS-memory® | |
| 64GB | SP467328 | DDR4 | RDIMM (ECC Registered) 3DS | 288 Pin DIMM | PHS-memory® | |
| 64GB | SP259410 | DDR4 | LRDIMM (ECC LR DIMM) | 288 Pin DIMM | PHS-memory® | |
| 128GB | SP467331 | DDR4 | RDIMM (ECC Registered) 3DS | 288 Pin DIMM | PHS-memory® | |
| 128GB | SP467320 | DDR4 | LRDIMM (ECC LR DIMM) 3DS | 288 Pin DIMM | PHS-memory® | |
| 256GB | SP467334 | DDR4 | RDIMM (ECC Registered) 3DS | 288 Pin DIMM | PHS-memory® | |
| 256GB | SP467324 | DDR4 | LRDIMM (ECC LR DIMM) 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.

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For more information on warranty and service please visit https://www.phs-memory.es/-W5Y

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