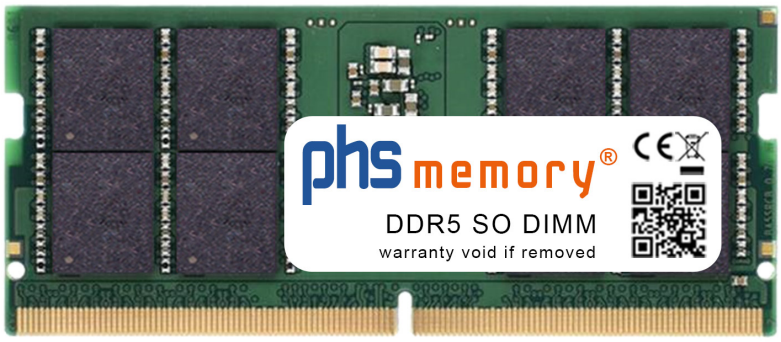
# 32GB Computer memory DDR5 for MSI Stealth GS77 12UGS-004FR SO DIMM

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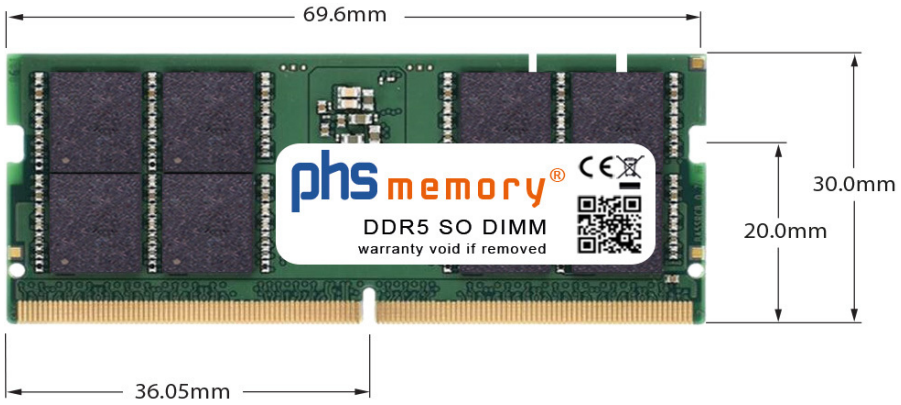
## Memory Specification




| | |
|---|---|
| **Memory size** | 32GB |
| **Memory technology** | DDR5 |
| **ECC support** | no |
| **JEDEC Norm** | PC5-38400-S |
| **Type** | SO DIMM |
| **Number of pins** | 262 Pin SO DIMM |
| **Memory data transfer rate** | 4800MHz |
| **Voltage** | 1,1 Volt |
| **Speciality** | - |
| **Operating temperature** | 0° C - 85° C |
| **Storage temperature** | -40° C - +95° C |
| **RoHS compliant** | yes |
| **SKU** | SP431545 |
| **EAN** | 4064578945015 |

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** | Laptop |
| **Device family** | Stealth |
| **Device series** | GS77 12UGS Serie |
| **Device name** | Stealth GS77 12UGS-004FR |
| **Standard memory** | 16GB (2x8GB) |
| **Maximum memory*** | 64GB |
| **Number of memory sockets** | 2 |

* 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.

## 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 Stealth GS77 12UGS-004FR

| Size | SKU | Technology | Type | Number of pins | Brand | Reference no. |
|---|---|---|---|---|---|---|
| 16GB | SP431544 | DDR5 | SO DIMM | 262 Pin SO DIMM | PHS-memory® | |
| 32GB | SP431545 | DDR5 | SO DIMM | 262 Pin SO 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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## Contact Information

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