

# 4GB Computer memory DDR3 for ASRock P45 TurboTwins2000 UDIMM





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### PHS-memory® - computer memory with 100% quality

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- Free support for optimal configuration and product selection
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- 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.
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# Memory Specification



| Memory size               | 4GB                        |  |  |  |
|---------------------------|----------------------------|--|--|--|
| Memory technology         | DDR3                       |  |  |  |
| ECC support               | no                         |  |  |  |
| JEDEC Norm                | PC3-8500U                  |  |  |  |
| DRAM Organization         | 256Mx8                     |  |  |  |
| Rank                      | 2Rx8                       |  |  |  |
| Туре                      | UDIMM (Non-ECC unbuffered) |  |  |  |
| Number of pins            | 240 Pin DIMM               |  |  |  |
| Memory data transfer rate | 1066MHz @ CL7              |  |  |  |
| Voltage                   | 1,5 Volt                   |  |  |  |
| 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                       | SP158718                   |  |  |  |
| EAN                       | 4055069304565              |  |  |  |
|                           |                            |  |  |  |

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      | ASRock  |  |  |
|--------------------------|---|--|--|
| Device type              | Motherboard-memory  |  |  |
| Device family            | Mainboard P   |  |  |
| Device series            | P45 Serie   |  |  |
| Device name              | P45 TurboTwins2000  |  |  |
| Maximum memory*          | 16GB  |  |  |
| Number of memory sockets | 6   |  |  |
| Annotation               | Please make sure that you can use only DDR2 RAM or DDR3 based RAM. A mix of DDR2 and DDR3 memory is not possible. |  |  |

<sup>\*</sup>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

### Information on memory configuration

- Mit DDR2 memoryn erreichen Sie einen maximalen Computer memory of 8GB. Bei Verwendung of DDR3 Computer memoryn ist 16GB möglich.
- Eine Mischbestückung of DDR2 and DDR3 memoryn ist nicht möglich.
- Es stehen 4 memory slots for DDR3 memory zur Verfügung
- Es stehen 2 memory slots for DDR2 memory zur Verfügung

### 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 P45 TurboTwins2000

| Size | SKU      | Technology | Туре                              | Number of pins | Brand       | Reference no. |
|------|----------|------------|-----------------------------------|----------------|-------------|---------------|
| 2GB  | SP158720 | DDR2       | UDIMM (Non-<br>ECC<br>unbuffered) | 240 Pin DIMM   | PHS-memory® |               |
| 2GB  | SP158717 | DDR3       | UDIMM (Non-<br>ECC<br>unbuffered) | 240 Pin DIMM   | PHS-memory® |               |
| 4GB  | SP158721 | DDR2       | UDIMM (Non-<br>ECC<br>unbuffered) | 240 Pin DIMM   | PHS-memory® |               |
| 4GB  | SP158718 | DDR3       | UDIMM (Non-<br>ECC<br>unbuffered) | 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.fr/-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.fr