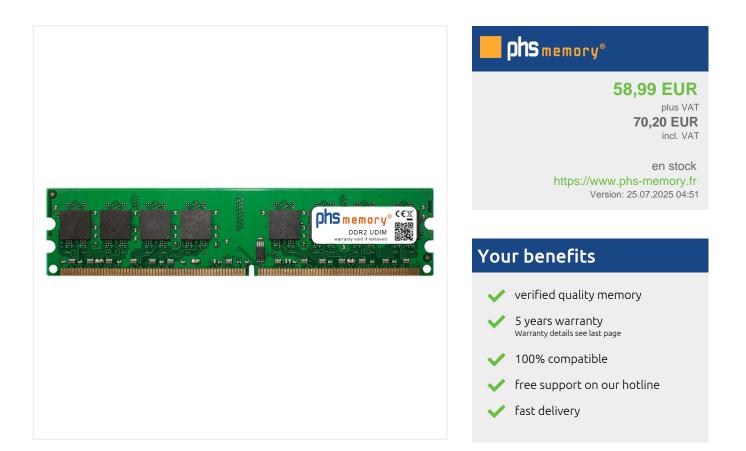
phs memory®

# 4GB Computer memory DDR2 for ASRock P45R2000 UDIMM



### 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

-	133.35mm	
DDR2 UDIMM Warranty void if removed	30 17.8mm 10mm 10mm 10mm	Dmm

Memory size	4GB			
Memory technology	DDR2			
ECC support	ΠΟ			
JEDEC Norm	PC2-6400U			
DRAM Organization	256Mx8			
Rank	2Rx8			
Туре	UDIMM (Non-ECC unbuffered)			
Number of pins	240 Pin DIMM			
Memory data transfer rate	800MHz @ CL6			
Voltage	1,8 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	SP158716			
EAN	4055069304541			

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	P45R2000		
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.		

\* 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 P45R2000

Size	SKU	Technology	Туре	Number of pins	Brand	Reference no.
2GB	SP158715	DDR2	UDIMM (Non- ECC unbuffered)	240 Pin DIMM	PHS-memory®	
2GB	SP158712	DDR3	UDIMM (Non- ECC unbuffered)	240 Pin DIMM	PHS-memory®	
4GB	SP158716	DDR2	UDIMM (Non- ECC unbuffered)	240 Pin DIMM	PHS-memory®	
4GB	SP158713	DDR3	UDIMM (Non- ECC 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