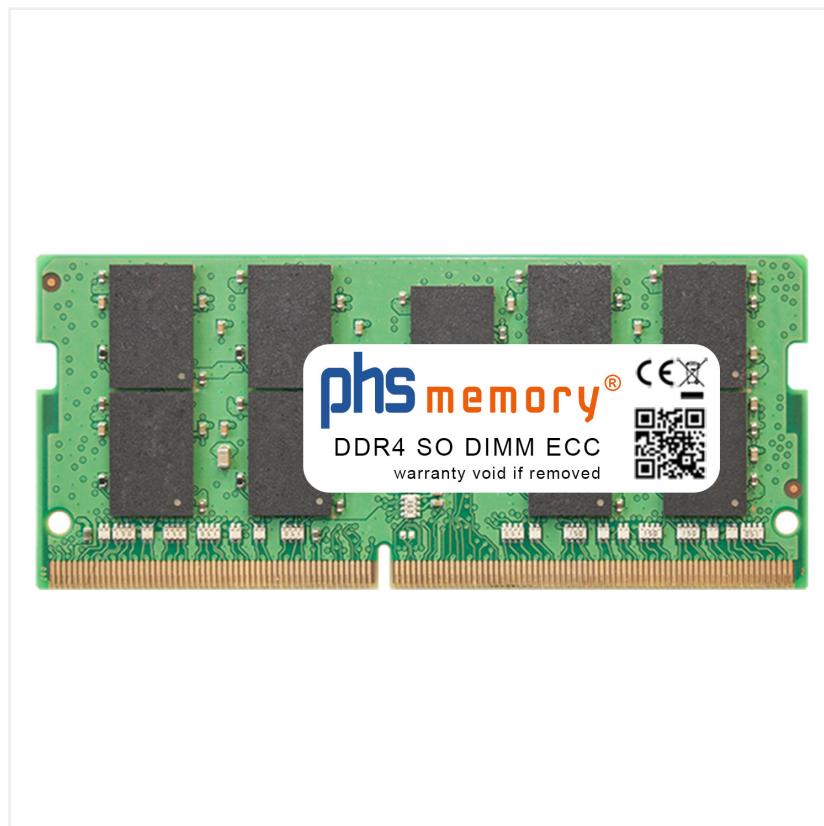


# 8GB Computer memory DDR4 for Lenovo ThinkPad P1 (20MD) (Xeon Processor) SO DIMM ECC



## 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>	8GB
<b>Memory technology</b>	DDR4
<b>ECC support</b>	ja
<b>JEDEC Norm</b>	PC4-21300E
<b>Type</b>	SO DIMM ECC
<b>Number of pins</b>	260 Pin DIMM
<b>Memory data transfer rate</b>	2666MHz @ CL19
<b>Voltage</b>	1,2 Volt
<b>Speciality</b>	-
<b>Board dimensions</b>	69,73 x 30,13 (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>	SP279933
<b>EAN</b>	4063369494497

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>	Lenovo
<b>Device type</b>	Workstation
<b>Device family</b>	ThinkPad
<b>Device series</b>	P1 Serie
<b>Device name</b>	ThinkPad P1 (20MD) (Xeon Processor)
<b>Standard memory</b>	16GB
<b>Maximum memory*</b>	64GB / 32GB according to manufacturer
<b>Number of memory sockets</b>	2
<b>Annotation</b>	suitable for the following models: 20MD000X.., 20MD000Y.., 20MD0010.., 20MD0011.., 20MD0012.., 20MD0013.., 20MD001XUS, 20MD001YUS, 20MD0025US, 20MD0028US, 20MD002EUS, 20MD002HUS, 20MD002LUS, 20MD002MUS, etc.

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

## Further memory options for Lenovo ThinkPad P1 (20MD) (Xeon Processor)

Size	SKU	Technology	Type	Number of pins	Brand	Reference no.
8GB	SP279933	DDR4	SO DIMM ECC	260 Pin DIMM	PHS-memory®	4X70U39094
8GB	SP279931	DDR4	SO DIMM	260 Pin DIMM	PHS-memory®	4X70R38790, 4X70W22200, 4X70W30750
16GB	SP279932	DDR4	SO DIMM ECC	260 Pin DIMM	PHS-memory®	4X70U39095
16GB	SP279930	DDR4	SO DIMM	260 Pin DIMM	PHS-memory®	4X70R38791, 4X70W30751, 4X70W22201
32GB	SP468172	DDR4	SO DIMM ECC	260 Pin DIMM	PHS-memory®	
32GB	SP293959	DDR4	SO DIMM	260 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>