

## 4GB Computer memory DDR4 for Lenovo ThinkPad P50 (20EN) (Xeon Prozessor) SO DIMM



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**21,68 EUR**

plus VAT

**25,80 EUR**

incl. VAT

immediately available

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- ✓ 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
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- Products with unique serial number for service and warranty
- Pre-sales and after-sales support by technically trained personnel

Memory Specification



|                           |                        |
|---------------------------|------------------------|
| Memory size               | 4GB                    |
| Memory technology         | DDR4                   |
| ECC support               | no                     |
| JEDEC Norm                | PC4-19200S             |
| Type                      | SO DIMM                |
| Number of pins            | 260 Pin DIMM           |
| Memory data transfer rate | 2400MHz @ CL17         |
| Voltage                   | 1,2 Volt               |
| Speciality                | -                      |
| Board dimensions          | 69,73 x 30,13 (LxB mm) |
| Operating temperature     | 0° C - 85° C           |
| Storage temperature       | -40° C - +95° C        |
| RoHS compliant            | Yes                    |
| SKU                       | SP231512               |
| EAN                       | 4055069992465          |

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>              | Laptop                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Device family</b>            | ThinkPad                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Device series</b>            | P50 Serie                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Device name</b>              | ThinkPad P50 (20EN) (Xeon Prozessor)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Standard memory</b>          | 32GB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Maximum memory*</b>          | 128GB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Number of memory sockets</b> | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Annotation</b>               | Achtung: Alle ThinkPad P50 (20EN) Modelle, die einen Xeon Prozessor verbaut haben, unterstützen DDR4 SO-DIMM non-ECC and DDR4 SO-DIMM ECC. Eine Mischbestückung with DDR4 SO-DIMM ECC and DDR4 SO-DIMM non-ECC ist nicht möglich. Alle Geräte with einem i7 Prozessor, können nur with DDR4 SO-DIMM non-ECC aufgerüstet werden. suitable for the following models: 20EN0008., 20EN0009., 20EN000R., 20EN000S., 20EN000T., 20EN000U., 20EN000V., 20EN000W., 20EN001NUS, 20EN001PUS, 20EN001QUS, 20EN001RUS, 20EN001SUS, 20EN001TUS, 20EN002PUS, 20EN002V., 20EN0034., 20EN0035., 20EN003A., 20EN003B., 20EN003U., 20EN003V., 20EN003W., 20EN003X., 20EN0041., 20EN0042., 20EN004P., 20EN004RUS, 20EN004SUS, 20EN004TUS, 20EN004U., 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 allocation

### The right memory for your Thinkpad P50

Es gibt viele verschiedene Modelle in der ThinkPad P50 laptop series.

Die Geräte unterscheiden sich in der Speicherausstattung and auch in der verwendeten Speichertechnologie. Deshalb ist es

wichtig, dass Sie die Modellnummer auf dem Typenschild auf der Unterseite des laptop kontrollieren. Achten Sie bitte darauf, dass Sie den Computer memory bestellen, der zu Ihrem Modell des ThinkPad P50 angegeben wird. Wenn Sie Ihre Modellnummernicht finden, schicken Sie uns bitte eine Anfrage with der Modellnummer Ihres ThinkPad P50.

## 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 P50 (20EN) (Xeon Prozessor)

| Size | SKU      | Technology | Type        | Number of pins | Brand       | Reference no. |
|------|----------|------------|-------------|----------------|-------------|---------------|
| 4GB  | SP231512 | DDR4       | SO DIMM     | 260 Pin DIMM   | PHS-memory® | 4X70J67434    |
| 8GB  | SP231515 | DDR4       | SO DIMM ECC | 260 Pin DIMM   | PHS-memory® | 4X70J67437    |
| 8GB  | SP231513 | DDR4       | SO DIMM     | 260 Pin DIMM   | PHS-memory® | 4X70J67435    |
| 16GB | SP231514 | DDR4       | SO DIMM ECC | 260 Pin DIMM   | PHS-memory® | 4X70J67438    |
| 16GB | SP231511 | DDR4       | SO DIMM     | 260 Pin DIMM   | PHS-memory® | 4X70J67436    |
| 32GB | SP465880 | DDR4       | SO DIMM ECC | 260 Pin DIMM   | PHS-memory® |               |
| 32GB | SP317049 | 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.com/-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.com>