

## 32GB Computer memory DDR4 for Lenovo ThinkPad T490 (20N2) SO DIMM





# 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
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- Fast delivery in throughout Europe
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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.
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- 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



Memory size	32GB		
Memory technology	DDR4		
ECC support	no		
JEDEC Norm	PC4-19200S		
DRAM Organization	2Gx8		
Rank	2Rx8		
Туре	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	SP317068		
EAN	4063369800960		

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	<b>nufacturer</b> Lenovo			
Device type	Laptop			
Device family	ThinkPad			
Device series	T490 Serie			
Device name	ThinkPad T490 (20N2)			
Standard memory	8GB non removable			
Maximum memory*	40GB			
Number of memory sockets	1			
Annotation	suitable for the following models: 20N20004AD, 20N20004ED, 20N20004ZA, 20N20005AD, 20N20005ED, 20N20005EQ, 20N20005FE, 20N20005PE, 20N20005UE, 20N20005ZA, 20N20006AD, 20N20006ED, 20N20006EQ, 20N20006FE, 20N20006PE, 20N20007AD, 20N20007ED, 20N20007EQ, 20N20007FE, 20N20007ZA, 20N20007UE, 20N20007ZA, 20N20007UE, 20N20007ZA, 20N20008AD, 20N20008ED, 20N20008EQ, 20N20008ED, 20N20008BQ, 20N20008FE, 20N20008PE, 20N20008ZA, 20N20009AD, 20N20009AT, 20N20009BM, 20N20009AT, 20N20009EU, 20N20009ED, 20N20009FR, 20N20009EQ, 20N20009FR, 20N20009FE, 20N20009FR, 20N20009FB, 20N20009FR, 20N20009MB, 20N20009HV, 20N20009MB, 20N20009HV, 20N20009MB, 20N20009MC, 20N20009MB, 20N20009MC, 20N20009MB, 20N20009MC, 20N20009MB, 20N20009MC, 20N20009MB, 20N20009MN, 20N20009MS, 20N20009MN, 20N2000ABM, 20N20000AAT, 20N2000ABM,			

20N2000ACX, 20N2000ACY,



20N2000AED, 20N2000AEE, 20N2000AEU, 20N2000AFR, 20N2000AGB, 20N2000AGE, 20N2000AGM, 20N2000AHV, 20N2000AIU, 20N2000AIV, 20N2000AIW, 20N2000AIX, 20N2000AMB, 20N2000AMC, 20N2000AMD, 20N2000AMH, 20N2000AML, 20N2000AMN, 20N2000AMS, 20N2000AMX, 20N2000AMZ, 20N2000APB, 20N2000APG, 20N2000ARI, 20N2000ASC, 20N2000ASP, 20N2000ATX, 20N2000AUK, 20N2000AXS, 20N2000AZA, 20N2000BAD, 20N2000BAT, 20N2000BBM, 20N2000BCX, 20N2000BCY, 20N2000BED, 20N2000BEE, 20N2000BEQ, 20N2000BEU, 20N2000BFE, 20N2000BFR, 20N2000BGB, 20N2000BGE, 20N2000BGM, 20N2000BHV, 20N2000BIU, 20N2000BIV, 20N2000BIW, 20N2000BIX, 20N2000BMB, 20N2000BMC, 20N2000BMD, 20N2000BMH, 20N2000BML, 20N2000BMN, 20N2000BMS, 20N2000BMX, 20N2000BMZ, 20N2000BPB, 20N2000BPE, 20N2000BPG, 20N2000BRI, 20N2000BSC, 20N2000BSP, 20N2000BTX, 20N2000BUE, 20N2000BUK, 20N2000BXS, 20N2000BZA, 20N2000CAD, 20N2000CAT, 20N2000CBM, 20N2000CCX, 20N2000CCY, 20N2000CED, 20N2000CEE, 20N2000CEQ, 20N2000CEU, 20N2000CFE, 20N2000CFR, 20N2000CGB, 20N2000CGE, 20N2000CGM, 20N2000CHV, 20N2000CIU, 20N2000CIV, 20N2000CIW, 20N2000CI

#### 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

<sup>\*</sup> 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.

#### Product Datasheet | SP317068 32GB Computer memory for ThinkPad T490 (20N2)



- 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 T490 (20N2)

Size	SKU	Technology	Туре	Number of pins	Brand	Reference no.
4GB	SP297505	DDR4	SO DIMM	260 Pin DIMM	PHS-memory®	
8GB	SP297506	DDR4	SO DIMM	260 Pin DIMM	PHS-memory®	4X70R38790, 4X70W22200, 4X70W30750
16GB	SP297504	DDR4	SO DIMM	260 Pin DIMM	PHS-memory®	4X70R38791, 4X70W30751, 4X70W22201
32GB	SP317068	DDR4	SO DIMM	260 Pin DIMM	PHS-memory®	4X70S69154

#### 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.





#### 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.es