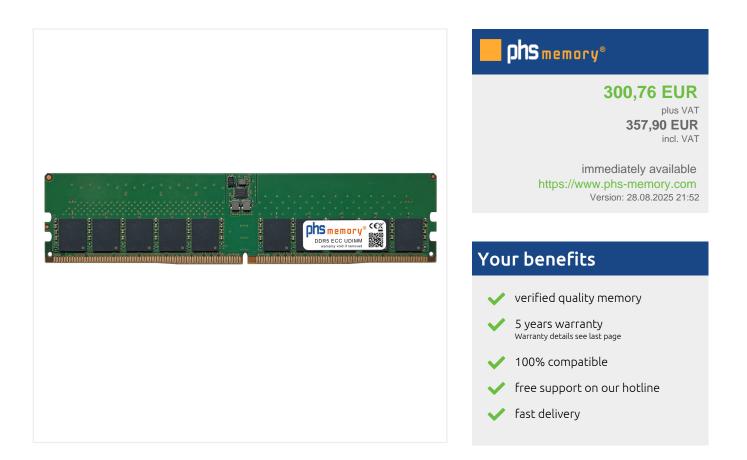
# phs memory®

## 48GB Computer memory DDR5 for Dell Precision 3680 Tower UDIMM ECC

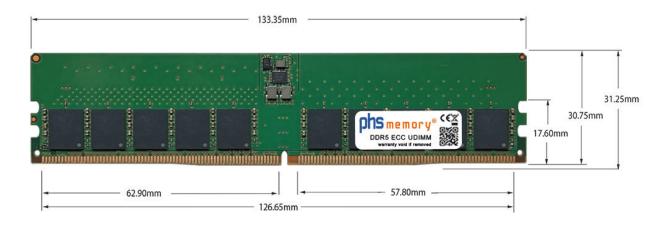


### PHS-memory® - computer memory with 100% quality

- 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



48GB
DDR5
ja
РС5-38400-Е
UDIMM ECC (ECC unbuffered)
288 Pin DIMM
4800MHz
1,1 Volt
-
0° C - 85° C
-40° C - +95° C
Yes
SP570348
4069169409778

#### overRAMing maximize your RAM



Most systems - including the Dell Precision 3680 Tower - can be upgraded with more memory than originally specified by the device manufacturer.

Therefore, our memory specialists continuously analyze new memory solutions in selected systems. Due to improved manufacturing technologies, new memories with higher performance and capacity will be tested for stability and functionality.

Then the new memory solutions are released for the respective systems. Use the benefits of larger computer memory capacity with the PHSmemory® overRAMing memory solutions.

https://www.phs-memory.com/-BOR

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	Dell
Device type	Workstation
Device family	Precision Workstation
Device series	3600 Serie
Device name	Precision 3680 Tower
Standard memory	8GB (1x8GB)
Maximum memory*	256GB / 128GB according to manufacturer
Number of memory sockets	4

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

Memory modules with our overRAMing-symbol are approved by us for maximum memory expansion.

### Information on memory allocation

#### Information on memory configuration

The following technical specifications should be considered in advance:

 Im Gerät können non ECC or ECC (Error-Correction-Code) RAM-memory installiert werden. Memory with der Description ECC besitzen eine Fehlerkorrektur.

Non ECC memory modules können nicht zusammen with ECC memoryn gemischt betrieben werden. Der Prozessor i3-14100 untersützt KEINE ECC-memory modules.

- The maximum memory speed varies depending on the configuration on each channel. If the 2-DIMM configuration is not symmetrical, the maximum speed can drop. 4400 MHz: 1 DIMM-1R/2R
  4000 MHz: 2 DIMM-1R
  3600 MHz: 2 DIMM-2R
- Supported memory configurations:

Memory capacity	DIMM1	DIMM2	DIMM3	DIMM4
8GB	8GB			-
16GB	8GB	- 8GB		-
32GB	8GB	8GB 8GB		8GB
32GB	16GB	-	16GB	-
48GB	24GB	-	24GB	-
64GB	16GB	16GB	16GB	16GB
64GB	32GB	-	32GB	-
96GB	24GB	24GB	24GB	24GB
96GB	48GB	-	48GB	-
128GB	32GB	32GB	32GB	32GB



192GB	48GB 48GB	48GB	48GB
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## 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 Dell Precision 3680 Tower

8GBSP534842DDRSUDIMM (Non- ECC unbuffered)288 Pin DIMMPHS-memory®16GBSP534843DDRSUDIMM (Non- ECC unbuffered)288 Pin DIMMPHS-memory®16GBSP534840DDRSUDIMM (Con- ECC unbuffered)288 Pin DIMMPHS-memory®24GBSP534840DDRSUDIMM (Non- ECC unbuffered)288 Pin DIMMPHS-memory®32GBSP534845DDRSUDIMM (Non- ECC unbuffered)288 Pin DIMMPHS-memory®32GBSP534841DDRSUDIMM (Non- ECC unbuffered)288 Pin DIMMPHS-memory®32GBSP534841DDRSUDIMM (Non- ECC unbuffered)288 Pin DIMMPHS-memory®48GBSP534846DDRSUDIMM (Non- ECC unbuffered)288 Pin DIMMPHS-memory®48GBSP534846DDRSUDIMM (Non- ECC unbuffered)288 Pin DIMMPHS-memory®48GBSP570348DDRSUDIMM (Non- ECC unbuffered)288 Pin DIMMPHS-memory®64GBSP583917DDRSUDIMM (Non- ECC unbuffered)288 Pin DIMMPHS-memory®	Size	SKU	Technology	Туре	Number of pins	Brand	Reference no.
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ECC unbuffered)48GBSP570348DDR5UDIMM ECC (ECC unbuffered)288 Pin DIMMPHS-memory®64GBSP583917DDR5UDIMM (Non- ECC288 Pin DIMMPHS-memory®	32GB	SP534841	DDR5	(ECC	288 Pin DIMM	PHS-memory®	
(ECC unbuffered) 64GB SP583917 DDR5 UDIMM (Non- 288 Pin DIMM PHS-memory® ECC	48GB	SP534846	DDR5	ECC	288 Pin DIMM	PHS-memory®	
ECC	48GB	SP570348	DDR5	(ECC	288 Pin DIMM	PHS-memory®	
	64GB	SP583917	DDR5	ECC	288 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



# phs memory<sup>®</sup>

## 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