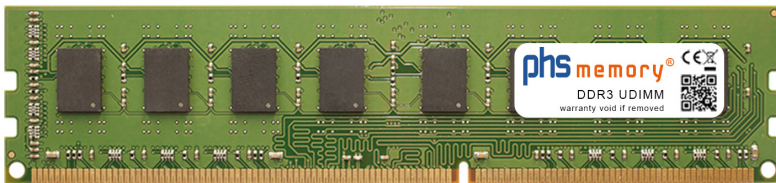


4GB Computer memory DDR3 for HP Z230 Tower (Xeon Prozessor) UDIMM



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Memory Specification



Memory size	4GB
Memory technology	DDR3
ECC support	no
JEDEC Norm	PC3-12800U
Type	UDIMM (Non-ECC unbuffered)
Number of pins	240 Pin DIMM
Memory data transfer rate	1600MHz @ CL11
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	SP231663
EAN	4055069993844

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:

System manufacturer	HP
Device type	Workstation
Device family	Workstation
Device series	Z230 Serie
Device name	Z230 Tower (Xeon Prozessor)
Standard memory	8GB
Maximum memory*	32GB
Number of memory sockets	4

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

Help in choosing the right RAM:

Wir bieten Ihnen die schnelleren 1600MHz Computer memory for Ihr System an. Durch die Abwärtskompatibilität unserer Computer memory auf 1333MHz, können Sie die diese auch with bereits vorhandenen 1333MHz memoryn gemischt betreiben.

Ob Sie UDIMM ECC Computer memory einsetzen sollten hängt auch davon ab, ob bereits vorhandene memory with ECC ausgestattet sind.

Der Einsatz verschiedener RAM Größen in den Steckplätzen ist möglich. Der Dual Channel Mode wird auch hierbei durch die Intel Flex Memory Technology supports.

Bei verschiedenen Computer memory capacityen müssen Sie darauf achten, dass die memory in memorykanal A größer sind als die Computer memory in memorykanal B.

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 HP Z230 Tower (Xeon Prozessor)

Size	SKU	Technology	Type	Number of pins	Brand	Reference no.
4GB	SP231663	DDR3	UDIMM (Non-ECC unbuffered)	240 Pin DIMM	PHS-memory®	B4U36AA, B1S53AA
4GB	SP231661	DDR3	UDIMM ECC (ECC unbuffered)	240 Pin DIMM	PHS-memory®	A2Z48AA
8GB	SP231664	DDR3	UDIMM (Non-ECC unbuffered)	240 Pin DIMM	PHS-memory®	B4U37AA, B1S54AA
8GB	SP231662	DDR3	UDIMM ECC (ECC unbuffered)	240 Pin DIMM	PHS-memory®	A2Z50AA

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>



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