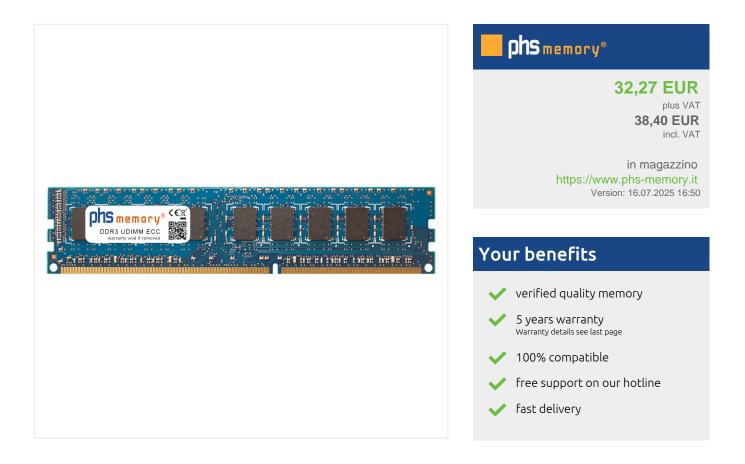
# phs memory®

# 8GB Computer memory DDR3 for Lenovo Flex System x440 Compute Node 7917 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

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## Memory Specification

-	133.35mm			
		9.5mm	17.3mm	30mm
-		t		

Memory size	8GB		
Memory technology	DDR3		
ECC support	yes		
JEDEC Norm	PC3-12800E		
DRAM Organization	512Mx8		
Rank	2Rx8		
Туре	UDIMM ECC (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	SP464756		
EAN	4067488282713		

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	Lenovo
Device type	Server
Device family	IBM Flex System
Device series	x440 Serie
Device name	Flex System x440 Compute Node 7917
Standard memory	8GB (1x8GB)
Maximum memory*	1.5TB / 1,5TB according to manufacturer
Number of memory sockets	48
Annotation	ECC DIMM, Registered DIMM and Load Reduced LRDIMM memory modules must not be mixed. You should therefore know which memories already exist, when you want to upgrade. Memory slots for which no processor is available must not be equipped.

\* 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

#### Which memory configuration is possible?

Our memory team will be happy to help you choose the right memory and configure your server.

Technologie		2 CPU 24Slot	4 CPU 48Slot
	1 CPU 12Slot		
UDIMM ECC	UDIMM ECC 32GB RAM (8 x 4GB)		128GB RAM (32 x 4GB)
RDIMM	192GB RAM (12 x 16GB)	384GB RAM (24 x 16GB)	768GB RAM (48 x 16GB)
LRDIMM	LRDIMM 384GB RAM (12 x 32GB)		
		768GB RAM (24 x 32GB)	1,5TB RAM (48 x 32GB)

#### Principles of memory assembly

- Each CPU has 4 memory channels with 3 memory slots each
- ECC DIMM, Registered DIMM and Load Reduced LRDIMM memory modules must not be mixed
- Bei einer Aufrüstung sollten Sie deshalb wissen, welche memory bereits vorhanden sind or komplett auf RDIMM or



LRDIMMcomputer memory upgrade.

- When using ECC UDIMM memories, only 2 of 3 memory slots can be used per memory channel
- memorysteckplätze for die kein Prozessor vorhanden ist dürfen nicht bestückt werden
- Höhere memoryfrequenzen passen sich ggf. anderen memorytaktungen in der Systemumgebung an and unterstützen entsprechend langsamere Taktraten
- The low voltage memories with 1.35V are clocked with 1.5V when mixed with 1.5V memories via the fallback option in the memory.

#### Memory configuration for good system performance

- Verteilen Sie die memory gleichmäßig auf die memorysteckplätze and gleichmäßig auf die CPUs
- Wenn mehr als eine CPU vorhanden sind, sollten die memory pro CPU identisch (gespiegelt zur anderen CPU) bestückt werden.

#### 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 Flex System x440 Compute Node 7917

Size	SKU	Technology	Туре	Number of pins	Brand	Reference no.
4GB	SP187414	DDR3	UDIMM ECC (ECC unbuffered)	240 Pin DIMM	PHS-memory®	49Y1404
8GB	SP187419	DDR3	RDIMM (ECC Registered)	240 Pin DIMM	PHS-memory®	90Y3109
8GB	SP464756	DDR3	UDIMM ECC (ECC unbuffered)	240 Pin DIMM	PHS-memory®	
16GB	SP187417	DDR3	RDIMM (ECC Registered)	240 Pin DIMM	PHS-memory®	46W0672
32GB	SP187416	DDR3	LRDIMM (ECC LR DIMM)	240 Pin DIMM	PHS-memory®	90Y3105
32GB	SP464757	DDR3	RDIMM (ECC Registered)	240 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.it/-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.it