

4GB Computer memory DDR4 for DFI SH960 SO DIMM



phs memory®

21,68 EUR

plus VAT

25,80 EUR

incl. VAT

in magazzino

<https://www.phs-memory.it>

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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
- 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



Memory size	4GB
Memory technology	DDR4
ECC support	no
JEDEC Norm	PC4-17000S
Type	SO DIMM
Number of pins	260 Pin DIMM
Memory data transfer rate	2133MHz @ CL15
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	SP221567
EAN	4055069895568

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	DFI
Device type	Motherboard-memory
Device family	COM Express Basic
Device series	SH Serie
Device name	SH960
Maximum memory*	64GB
Number of memory sockets	2

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

Equipping the computer memory in the DFI mainboard SH960

Der Einsatz verschiedener Ram Größen in den memory slotsn ist möglich.

Der schnelle Dual Channel Mode Betrieb wird bei der paarweisen Installation der memory optimal supports. If e.g. 4GB and 8GB were assembled, the Intel Flex technology would activate Dual Channel operation on the first 8GB.

mainboard Model Name	P/N	max.Ram
SH960-HM170BS-6100E	770-SH9601-800G	32GB (2 x 16GB)
SH960-HM170BS-6102E	770-SH9601-900G	32GB (2 x 16GB)
SH960-HM170BS-3900E	770-SH9601-C00G	32GB (2 x 16GB)
SH960-HM170BS-3902E	770-SH9601-B00G	32GB (2 x 16GB)
SH960-QM170BS-6820EQ	770-SH9601-400G	32GB (2 x 16GB)
SH960-QM170BS-6822EQ	770-SH9601-500G	32GB (2 x 16GB)
SH960-QM170BS-6440EQ	770-SH9601-600G	32GB (2 x 16GB)
SH960-QM170BS-6442EQ	770-SH9601-700G	32GB (2 x 16GB)

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 DFI SH960

Size	SKU	Technology	Type	Number of pins	Brand	Reference no.
4GB	SP221567	DDR4	SO DIMM	260 Pin DIMM	PHS-memory®	
8GB	SP221568	DDR4	SO DIMM	260 Pin DIMM	PHS-memory®	
16GB	SP221566	DDR4	SO DIMM	260 Pin DIMM	PHS-memory®	
32GB	SP313515	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.it/-W5Y>



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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>