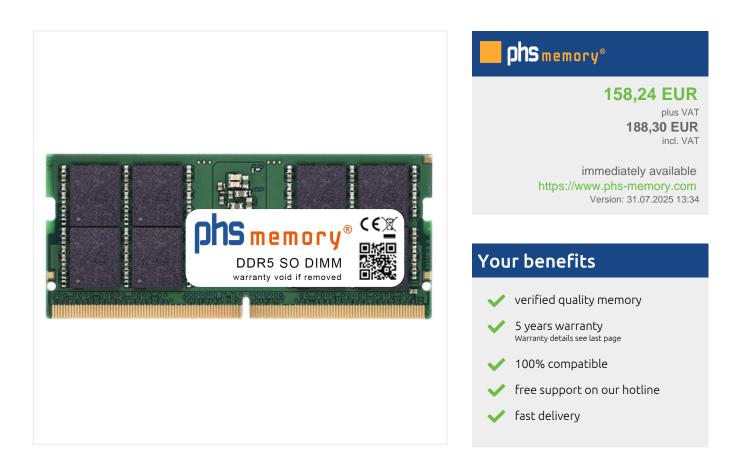
phs memory®

48GB Computer memory DDR5 for MSI Bravo 15 B7ED-021DE SO DIMM



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 technologyDDR5ECC supportnoJEDEC NormPC5-38400-STypeSO DIMMNumber of pins262 Pin SO DIMMMemory data transfer rate4800MHzVoltage1,1 VoltSpeciality-Operating temperature0° C - 85° CStorage temperature-40° C - +95° C	Memory size	48GB
JEDEC NormPC5-38400-STypeSO DIMMNumber of pins262 Pin SO DIMMMemory data transfer rate4800MHzVoltage1,1 VoltSpeciality-Operating temperature0° C - 85° C	Memory technology	DDR5
TypeSO DIMMNumber of pins262 Pin SO DIMMMemory data transfer rate4800MHzVoltage1,1 VoltSpeciality-Operating temperature0° C - 85° C	ECC support	ΠΟ
Number of pins262 Pin SO DIMMMemory data transfer rate4800MHzVoltage1,1 VoltSpeciality-Operating temperature0° C - 85° C	JEDEC Norm	PC5-38400-S
Memory data transfer rate4800MHzVoltage1,1 VoltSpeciality-Operating temperature0° C - 85° C	Туре	SO DIMM
Voltage1,1 VoltSpeciality-Operating temperature0° C - 85° C	Number of pins	262 Pin SO DIMM
Speciality - Operating temperature 0° C - 85° C	Memory data transfer rate	4800MHz
Operating temperature 0° C - 85° C	Voltage	1,1 Volt
	Speciality	-
Storage temperature -40° C - +95° C	Operating temperature	0° C - 85° C
	Storage temperature	-40° C - +95° C
RoHS compliant yes	RoHS compliant	yes
SKU SP563942	SKU	SP563942
EAN 4069169340644	EAN	4069169340644

overRAMing maximize your RAM



Most systems - including the MSI Bravo 15 B7ED-021DE - 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	MSI
Device type	Laptop
Device family	Bravo
Device series	15 Serie
Device name	Bravo 15 B7ED-021DE
Standard memory	16GB (2x8GB)
Maximum memory*	96GB / 64GB according to manufacturer
Number of memory sockets	2

* The specifications for the maximum memory upgrade may differ from those of the manufacturer MSI. 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 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 MSI Bravo 15 B7ED-021DE

Size	SKU	Technology	Туре	Number of pins	Brand	Reference no.
16GB	SP563939	DDR5	SO DIMM	262 Pin SO DIMM	PHS-memory®	
24GB	SP563940	DDR5	SO DIMM	262 Pin SO DIMM	PHS-memory®	
32GB	SP563941	DDR5	SO DIMM	262 Pin SO DIMM	PHS-memory®	
48GB	SP563942	DDR5	SO DIMM	262 Pin SO 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

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