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# AORUS Gen4 SSD 500GB

Key Features Specification Support

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GP-AG4500G

Interface PCI-Express 4.0x4, NVMe 1.3

Form Factor M.2 2280

Total Capacity 500GB

NAND 3D TLC NAND Flash

External DDR Cache DDR4 512MB

Sequential Read speed Up to 5000 MB/s

Sequential Write speed Up to 2500 MB/s

Random Read IOPS up to 400k

Random Write IOPS	up to 550k
Dimension	80 x 22 x 2.3 mm
Mean time between failure (MTBF)	1.77 million hours
Power Consumption (Active)	Average: R : 5.9W; W : 4.5W
Temperature (Operating)	0°C to 70°C
Temperature (Storage)	-40°C to 85°C
Warranty	<div>1. Limited 5-years or 850TBW.</div> <div>2. Limited warranty based on 5 years or 850TBW, whichever comes first. (*TBW is evaluated by JEDEC workload standard. )</div> <div>*TBW (Terabyte Written): Terabytes Written is the total amount of data that can be written into a SSD before it is likely to fail.</div> <div>3. When the usage of an NVME SSD as indicated by the "Percentage Used" (SMART ID: 05) in SMART page of "GIGABYTE SSD toolbox" reaches 100 means out of warranty. (A new unused product will show the number of 0)</div>
Note	<div>• Test system configuration: configuration may vary by models, we will choose the latest</div>


- platform for verification.
- Performance may vary based on SSD's firmware version and system hardware & configuration. Sequential performance measurements based on CrystalDiskMark and IOMeter 1.1.0.
  - Speeds based on internal testing. Actual performance may vary.
  - 1GB = 1 billion bytes. Actual useable capacity may vary.


\* The entire materials provided herein are for reference only. GIGABYTE reserves the right to modify or revise the content at anytime without prior notice.

\* Advertised performance is based on maximum theoretical interface values from respective Chipset vendors or organization who defined the interface specification. Actual performance may vary by system configuration.

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\* Due to standard PC architecture, a certain amount of memory is reserved for system usage and therefore the actual memory size is less than the stated amount.

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