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# AORUS Gen5 12000 SSD 1TB

Key Features Specification Support

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AG512K1TB

Interface PCI-Express 5.0x4, NVMe 2.0

Form Factor M.2 2280

Total Capacity 1000GB

NAND 3D TLC NAND Flash

External DDR Cache LPDDR4 2GB

Sequential Read speed Up to 11,700 MB/s

Sequential Write speed Up to 9,500MB/s

Dimension SSD without Heatsink: 80 x 22 x 3.5mm  
SSD with Heatsink: 92 x 23.5 x 44.7 mm

Please refer to the file to check the [M.2 Thermal Guard XTREME Incompatible List](#)

Mean time between failure (MTBF)	1.6 million hours
Max. Operating Power	11W
Power Consumption (Idle, PS3)	<144mW
Power Consumption(PS4, L1.2)	<85mW
Temperature (Operating)	0°C to 70°C
Temperature (Storage)	-40°C to 85°C
Warranty	<div>1. Limited 5-years or 700TBW.</div> <div>2. Limited warranty based on 5 years or 700TBW, 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</div>

toolbox" reaches 100 means out of warranty. (A new unused product will show the number of 0)

Note

- Test system configuration: configuration may vary by models, we will choose the latest 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.
- \* To keep AORUS Gen5 12000 SSD from overheating, please adopt the motherboard build-in heatsink or Thermal Guard Xtreme heatsink to prevent throttling.

\* 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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