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# AORUS Gen4 7000s Prem. SSD 1TB

Key Features Specification Support

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GP-AG70S1TB-P

Interface PCI-Express 4.0 x4, NVMe 1.4

Form Factor M.2 2280

Total Capacity 1000GB

NAND 3D TLC NAND Flash

External DDR Cache DDR4 1GB

Sequential Read speed Up to 7000 MB/s

Sequential Write speed Up to 5500 MB/s

Random Read up to 350k

IOPS

Random Write IOPS up to 700k

Dimension 92 x 23.5 x 44.7 mm  
Please refer to the file to check the [heatsink incompatible list](#) for AORUS Gen4 7000s Prem. SSD.

Mean time between failure (MTBF) 1.6 million hours

Power Consumption (Active) Average: R : 7.6W, W : 8.4W

Power Consumption (Idle) <30mW

Temperature (Operating) 0°C to 70°C

Temperature (Storage) -40°C to 85°C

Warranty 1. Limited 5-years or 700TBW.  
2. Limited warranty based on 5 years or 700TBW, whichever comes first. (\*TBW is evaluated by JEDEC workload standard. )  
\*TBW (Terabyte Written): Terabytes Written is the total amount of data that can be written into a SSD before it is likely to fail.

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)

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.


\* 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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