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# GIGABYTE

## M.2 SSD

### 500GB

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Buy



Where To Buy



Online Store

GM2500G

**Interface**    PCI-Express 3.0 x4, NVMe 1.4

**Form Factor**    M.2 2280

**Total Capacity**    500GB

**External DDR Cache**    N/A

**Sequential Read speed**    Up to 3400 MB/s

**Sequential Write speed**    Up to 2500 MB/s

**Random Read IOPS**    Up to 300K

**Random  
Write  
IOPS** Up to 390K

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**Dimension** 22 x 2.3 x 80 mm

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**Mean  
time  
between  
failure  
(MTBF)** 1.5 million hours

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**Power  
Consumption  
(Active)** Average R : 3150mW  
Average W : 3250mW

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**Power  
Consumption (Idle)** Idle : 30mW  
L1.2 < 5mW

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**Temperature  
(Operating)** 0°C to 70°C

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**Temperature  
(Storage)** -40°C to 85°C

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**Warranty**

1. Limited 5-years or 300TBW.
2. Limited warranty based on 5 years or 300TBW, 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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