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# GIGABYTE

## NVMe SSD

### 512GB

Key Features   Specification   Support

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GP-GSM2NE3512GNTD

Interface   PCI-Express 3.0 x4, NVMe 1.3

Form Factor   M.2 2280

Total Capacity   512GB

NAND   NAND Flash

External DDR Cache   N/A

Sequential Read speed   Up to 1700 MB/s

Sequential Write speed   Up to 1550 MB/s

Random Read   Up to 270K

IOPS

Random Write IOPS Up to 340K

Dimension 80 x 22 x 2.3 mm

Mean time between failure (MTBF) 1.5M hours

Max. Operating Power Read: 3.3W Write:2.8W

Power Consumption (Idle, PS3) 30mW

Power Consumption(PS4, L1.2) 5mW

Temperature (Operating) 0°C to 70°C

Temperature (Storage) -40°C to 85°C

Warranty 1. Limited 5-years or 800TBW.  
2. Limited warranty based on 5 years or 800TBW, 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)

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**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.
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\* 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.

\* All trademarks and logos are the properties of their respective holders.

\* 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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