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# GIGABYTE

## NVMe SSD

### 256GB

Key Features Specification Support

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GP-GSM2NE3256GNTD

Interface    PCI-Express 3.0 x4, NVMe 1.3

Form Factor    M.2 2280

Total Capacity    256GB

NAND    NAND Flash

External DDR Cache    N/A

Sequential Read speed    Up to 1700 MB/s

Sequential Write speed    Up to 1100 MB/s

Random Read    Up to 180k

## IOPS

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<b>Random Write IOPS</b>	Up to 250k
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<b>Dimension</b>	80 x 22 x 2.3 mm
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<b>Mean time between failure (MTBF)</b>	1.5M hours
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<b>Max. Operating Power</b>	Read: 2.6W Write: 2.4W
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<b>Power Consumption (Idle, PS3)</b>	30mW
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<b>Power Consumption (PS4, L1.2)</b>	5mW
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<b>Temperature (Operating)</b>	0°C to 70°C
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<b>Temperature (Storage)</b>	-40°C to 85°C
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<b>Warranty</b>	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. )
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\*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.

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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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