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GIGABYTE

M.2 PCIe

SSD 512GB

Key Features Specification Support

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GP-GSM2NE8512GNTD

Interface PCI-Express 3.0 x2, NVMe 1.3

Form Factor M.2 2280

Total Capacity 512GB

NAND NAND Flash

External DDR Cache N/A

Sequential Read speed Up to 1550 MB/s

Sequential Write speed Up to 850 MB/s

Random Read up to 120K

IOPS

Random Write IOPS

up to 160K

Dimension

80 x 22 x 2.3 mm

Mean time between failure (MTBF)

1.5M hours

Power Consump tion (Active)

Average : R : 2200mW; W : 2100mW

Power Consump tion (Idle)

50mW

Temperat ure (Operatin g)

0°C to 70°C

Temperat ure (Storage)

-40°C to 85°C

Warranty

1. Limited 3-years or 400TBW.
2. Limited warranty based on 3 years or 400TBW, 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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