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Key Features Specification Support

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GP-ASM2NE6500GTTD

Interface PCI-Express 4.0x4, NVMe 1.3

Form Factor M.2 2280

Total Capacity 500GB

NAND 3D TLC Toshiba BiCS4

External DDR Cache DDR4 512MB

Sequential I Read speed Up to 5000 MB/s

Sequential I Write speed Up to 2500 MB/s

Random Read up to 400k

IOPS

Random
Write
IOPS up to 550k

Dimensio
n 80.5 x 11.25 x 23.5 mm

Mean
time
between
failure
(MTBF) 1.77 million hours

Power
Consump
tion
(Active) Average: R : 5.9W; W : 4.5W

Power
Consump
tion (Idle) 13.21mW

Temperat
ure
(Operatin
g) 0°C to 70°C

Temperat
ure
(Storage) -40°C to 85°C

Warranty 1. Limited 5-years or 850TBW.
 2. Limited warranty based on 5 years or 850TBW, 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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