

PRODUCT SPECIFICATIONS

NEUBE Enterprise U.2 NVMe SSD			
Form Factor U.2			
Capacity ⁽¹⁾	480GB	960GB	1920GB
Interface	PCIe 4.0 x4	PCIe 4.0 x4	PCIe 4.0 x4
NVMe	1.4	1.4	1.4
NAND Flash	3D TLC	3D TLC	3D TLC
Performance (2,3,4)			
Sequential Read	6500 MB/s	6800 MB/s	6800 MB/s
Sequential Write	700 MB/s	1400 MB/s	2000 MB/s
4K Random Read	450K IOPS	800K IOPS	900K IOPS
4K Random Write	25K IOPS	50K IOPS	60K IOPS
4K Random Read	75 us	75 us	75 us
4K Random Write	35 us	20 us	25 us
Power Consumption (5)			
Active (W)	8.4W	9.0W	11.7W
Idle (W)	4W	4W	4.2W
Endurance/ Reliability			
DWPD ⁽⁶⁾	1	1	1
UBER	< 1 sector per 1017 bits read	< 1 sector per 1017 bits read	< 1 sector per 1017 bits read
MTBF (million hours)	2.0	2.0	2.0
Limited Warranty (years)	5	5	5
Temperature			
Operating Temp. (°C)	0 - 70	0 - 70	0 - 70
Non-Operating Temp. (°C)	-40 - 85	-40 - 85	-40 - 85
Physical Dimension			
Length (mm)	100.10	100.10	100.10
Width (mm)	69.85	69.85	69.85
Height (mm)	15.00	15.00	15.00
Weight (g)	197	197	197

(1) 1 GB = 10⁹ bytes.

(2) Sequential Performance is based on FIO on Linux, 128KB data size, with QD=32, 1 job.

(3) Random Performance is based on FIO on Linux, 4KB data size, QD=32, 8 jobs.

(4) Latency is measured with random workloads based on FIO on Linux, 4KB data size, QD=1, 1 job.

(5) Power consumption (average RMS) is measured during the sequential read/write and random read/write operations performed by iometer with the conditions described in (2)(3).

(6) The results of DWPD are obtained in compliance with JESD219A standards.



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