PRODUCT SPECIFICATIONS

NEUBE M.2 2280 TLC SATA SSD			
M.2 2280			
	Capacity	240GB	480GB	960GB
Performance	Sequential Read	400 MB/s	530 MB/s	530 MB/s
	Sequential Write	70 MB/s	450 MB/s	500 MB/s
	Random Read	90K IOPS	90K IOPS	90K IOPS
	Random Write	8k IOPS	10K IOPS	20K IOPS
Power Consumption	Max	2.3W	2.5W	3.0W
	Idle	1.1W	1.1W	1.1W
Latency	4K Random Read	120 us	120 us	115 us
	4K Random Write	110 us	80 us	40 us
2.5"			
	Capacity	240GB	480GB	960GB
Reliability	Sequential Read	400 MB/s	530 MB/s	530 MB/s
	Sequential Write	70 MB/s	450 MB/s	500 MB/s
	4K Random Read	90K IOPS	90K IOPS	90K IOPS
	4K Random Write	8k IOPS	10K IOPS	20K IOPS
	Max	TBD	TBD	TBD
	Idle	TBD	TBD	TBD
Latency	4K Random Read	TBD	TBD	TBD
	4K Random Write	TBD	TBD	TBD
Features			
Interface	SATA III		
NAND Flash	3D TLC		
DWPD	1		
UBER	1 in 10^{17}		
Operating Temperature	0°C-70°C		
Non-operating Temperature	-40°C-85°C		
Key Features	▪ LDPC ▪ Power Loss Data Protection ▪ End-to-end Data Protection		

(1) 1 GB = 1,000,000,000 bytes.
(2) Sequential Performance is based on FIO on Linux, 128K, with QD=32, 1 worker, and test drive set as secondary.
(3) Random Performance is based on FIO on Linux, 4K data size, QD=32, 1 worker, 4K aligned.
(4) Power consumption is measured during the sequential read/write and random read/write operations performed by iometer with the conditions described in (2)(3).
(5) The results of DWPD are obtained in compliance with JESD219A Standards.

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