

PRODUCT SPECIFICATIONS

NEUBE 2.5" 3D eTLC NVMe SSD

Interface	PCIe Gen4x 4 Single Port x4 lanes/Dual Port x2 lanes										
Compliance	PCI Express Base 4.0 NVMe Express 1.4 NVMe Express Management Interface Rev 1.1										
Model	X100P						X100E				
Hardware Information	Capacity	▪ 1920GB, 3840GB, 7680GB, 15360GB, 30720GB					▪ 1600GB, 3200GB, 6400GB, 12800GB, 25600GB				
	Form Factor	▪ U.2/U.3 15mm					▪ U.2/U.3 7mm				
	Dimensions	▪ U.2/U.3 15mm 100(L)x70(W)x15(H) mm U.2					▪ U.3 7mm 100(L)x70(W)x7(H) mm				
Capacity	1920GB	3840GB	7680GB	15360GB	30720 GB	1600 GB	3200 GB	6400 GB	12800 GB	25600GB	
Performance	Sequential Read (MB/s)	7,400	7,400	7,400	7,000	7,000	7,400	7,400	7,400	7,000	7,000
	Sequential Write (MB/s)	4,200	6,900	6,900	7,000	6,000	4,200	6,900	6,900	7,000	6,000
	4K Random Read (IOPS)	1750K	1750K	1750K	1600K	1600K	1750K	1750K	1750K	1600K	1600K
	4K Random Write (IOPS)	126K	188K	190K	180K	180K	300K	460K	470K	480K	450K
Power Consumption	Max	12.8W	17.9W	19.1W	20.1W	20.6W	13.3W	18.3W	19.9W	20.8W	20.4W
	Idle	5.5W	5.8W	5.8W	7.3W	8.2W	5.5W	5.8W	5.9W	7.4W	8.5W
Latency	4K Random Read	110 us	100 us	100 us	100 us	90 us	110 us	100 us	100 us	100 us	90 us
	4K Random Write	15 us	15 us	15 us	15 us	15 us	15 us	15 us	15 us	15 us	15 us
Reliability	Temperature Range	<ul style="list-style-type: none"> Operation: 0 °C ~ 70 °C with specified airflow Storage: -40 °C ~ 85 °C 									
	DWPD	▪ DWPD 1					▪ DWPD 3				
	TBW	<ul style="list-style-type: none"> 1920GB SSD – 3504 TB 3840GB SSD – 7008 TB 7680GB SSD – 14016 TB 15360GB SSD – 28032 TB 30720GB SSD – TBD 					<ul style="list-style-type: none"> 1600GB SSD – 8760 TB 3200GB SSD – 17520 TB 6400GB SSD – 35040 TB 12800GB SSD – 70080 TB 25600GB SSD – TBD 				
Environmental Conditions	Temperature	Operating: 0°C to 70°C Non-operating: -40°C to 85°C									
	Relative Humidity	Operating: 5% to 95% Non-operating: 5% to 95%									
Advanced Flash Management	<ul style="list-style-type: none"> ECC Static and Dynamic Wear Levelling Bad Block Management Deallocate (TRIM) Command 					<ul style="list-style-type: none"> SMART Over-Provision Firmware upgrade 					
Enterprise Features Support List	<ul style="list-style-type: none"> Namespace Dual Port Reservation 					<ul style="list-style-type: none"> Metadata Protection Thermal throttling Power Loss Protection Firmware upgrade 					
UBER	▪ 1 in 10 ¹⁸ bits read										
Data Retention	▪ 3 months										
Warranty	▪ 5-year limited										
MTBF	▪ 2.5 million hours										



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