PCle Gen 4 x4 M.2280 NAND Flash Drive

N500K8-xxxxTLxxI

3D NAND / wide temp.

Rev. 1.00

Hagiwara Solutions M.2 2280 PCIe SSD (Solid State Disk) is fully compliant with the PCIe Gen4x4 interface. It has lower power consumption compared to traditional principles, and designed based on the M.2 2280 standard, it offers a maximum capacity of 2048GB.

Specification

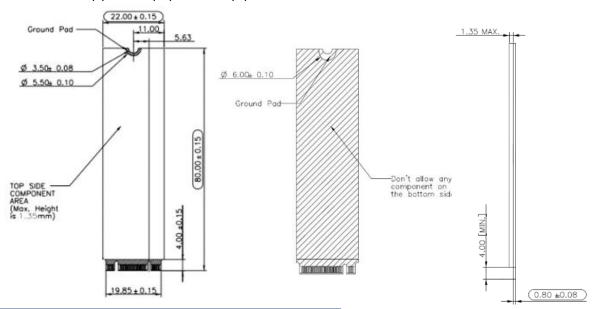
Product Number	N500K8-xxxxTL00I	
Capacity	128GB~2048GB	
	•Error Correction Code (ECC)	
	• Wear Leveling	
	•TRIM	
	•S.M.A.R.T	
Functions	•Thermal Throttling	
	• Read Refresh	
	Page Mapping Method adopted	
	•Temperature monitoring function	
	•Internal RAID function	
Operating Temperature	-40°C~85°C	
Storage Temperature	-40°C~85°C	
Sequential Read/Write (MB/S)	3,730/3,420 (2048GB)	
Random Read/Write (IOPS)	486,000/818,000 (2048GB)	
Compliance standards	CE/FCC/VCCI/UKCA	
Environmental specifications	RoHS directive compliance	
TBW (Total Bytes Written)	3,950 (2048GB)	
PE Cycles	3,000	
Data Potentian	10years@Initial (≦100 PE cycles) /Ta=55degC	
Data Retention	1year@Life end (3,000 PE cycles) /Ta=55degC	

Device Capacity

Model Number	lCanacity	Number of Total LBA		Licar Available Dytes
		512Bytes/Sector	4KBytes/Sector	User Available Bytes
N500K8-128GTL00I	128GB	250,069,680	31,258,710	128,035,676,160
N500K8-256GTL00I	256GB	500,118,192	62,514,774	256,060,514,304
N500K8-512GTL00I	512GB	1,000,215,216	125,026,902	512,110,190,592
N500K8-1024TL00I	1024GB	2,000,409,264	250,051,158	1,024,209,543,168
N500K8-2048TL00I	2048GB	4,000,797,360	500,099,670	2,048,408,248,320

Physical Dimension

Demention:80mm(L)*22mm(W)*2.15mm(H)



Performance

Capacity	Sequential(N	Sequential(MB/s)		Random 4KB(IOPS)	
	Read	Write	Read	Write	
128GB	1,600	570	61,000	139,000	
256GB	3,220	1,160	123,000	284,000	
512GB	3,720	2,320	246,000	568,000	
1024GB	3,720	3,420	486,000	818,000	
2048GB	3,340	3,110	486,000	755,000	

Notes:

Use CrystalDiskMark.

This value is based on measurements from our evaluation environment and method. Therefore, it may vary depending on the environment and method.

Consumption Current

Capacity	Operating Read (mA)	Operating Write (mA)	Idle(mA)
128GB	700	545	35
256GB	1,035	705	35
512GB	1,160	975	35
1024GB	1,175	1,195	35
2048GB	1,145	1,155	35

Notes:

This value is at a voltage of 3.3V(Idle:with ASPM enabled).

This value is based on measurements from our evaluation environment and method. Therefore,

it may vary depending on the environment and method.

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