



## Specification

Model	M500 2280				
Dimensions	NGFF L80mm * W22mm * H2.1mm Error $\pm$ 0.5mm(Finished product)				
Form factor	SATA M.2 2280				
Interface	SATA III 6Gbps				
Capacity	128GB	256GB	512GB	1TB	2TB
NAND Flash	TLC	TLC/QLC	TLC/QLC	TLC/QLC	TLC/QLC
Sequential Read (MB/s)	450~550	450~550	500~550	500~550	500~550
Sequential Write (MB/s)	360~500	400~500	400~510	450~510	450~510
TBW	90TB	185TB	375TB	750TB	1420
4K Random read(IOPS)	61830(1TB)				
4K Random write(IOPS)	61750(1TB)				
Input voltage	DC 3.3V $\pm$ 5%				
Power consumption Idle	0.28W(1TB)				
Power consumption Active	1.85W(1TB)				
Data retention	10years below 25 degree				
MTBF	1.5 million hours				
ECC	Hardware LDPC ECC engine with hard-decision and soft-decision decoding				
Features	System automatic bad block management				
Operating Temp.	0°C ~ 70°C				
Storage Temp.	-40°C ~ 85°C				
Humidity	5-95%				
Vibration	80Hz~2000Hz/20G				
Shock	1500G/0.5ms				