

specification

Model	YSIMXXX-S421			
Dimensions	MSATA L50.95mm * W30.0mm * H3.5mm Error±0.15mm			
Form factor	MSATA 52pin			
Interface	SATA III 6Gbps			
Capacity	128GB	256GB	512GB	1TB
NAND Flash	MLC	MLC	MLC	MLC
Sequential Read (MB/s)	450~500	450~500	500~550	500~550
Sequential Write (MB/s)	260~320	300~350	400~450	420~480
TBW	170TB	340TB	680TB	1360TB
4K Random read(IOPS)	69800 (Max)			
4K Random write(IOPS)	76090 (Max)			
Input voltage	DC 3.3V±5%			
Power consumption Idle	0.38W (Max)			
Power consumption Active	2.97W (Max)			
Data retention	10years below 25 degree			
MTBF	2 million hours			
ECC	Hardware BCH ECC capable of correcting errors up to 66-bit/1KB			
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			