

**YANSEN 元存**® Shenzhen KingSpec Electronics Technology Co., Ltd.  
specification

Model	YSCS-XXX						
Dimensions	CFAST L42.8mm * W36.4mm * H3.3mm Error±0.5mm						
Form factor	SATA 24pin						
Interface	SATA III 6Gbps						
Capacity	16GB	32GB	64GB	128GB	256GB	512GB	1TB
NAND Flash	MLC	MLC	MLC	MLC	TLC	TLC	TLC
Sequential Read (MB/s)	150~200	200~230	400~450	450~500	510~560	520~570	520~570
Sequential Write (MB/s)	30~55	30~55	70~100	150~200	230~280	400~450	480~530
TBW	20TB	40TB	85TB	170TB	185TB	375TB	750TB
4K Random read(IOPS)	61830 (1TB)						
4K Random write(IOPS)	61750 (1TB)						
Input voltage	DC 3.3V±5%						
Power consumption Idle	0.28W(1TB)						
Power consumption Active	1.85W(1TB)						
Data retention	10years below 25 degree						
MTBF	2 million hours						
ECC	Hardware BCH ECC capable of correcting errors up to 72bit/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						