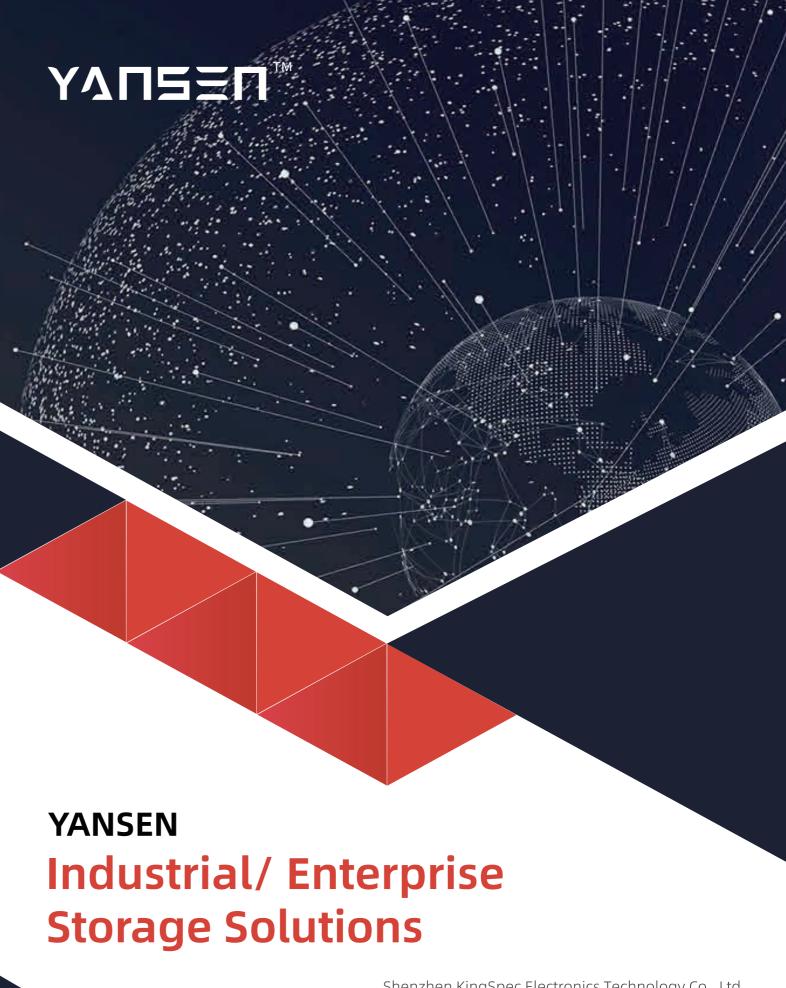






Postcode: 518000 E-mail: morffin@yansen-ssd.com

Office: 20th/F, Block C, Digital Innovation Center, No. 328 Mintang Road, Minzhi Street, Longhua District, Shenzhen Factory: 3rd/F., 6 Block, Yalitong Tech Park, Tangxia, Dongguan, Guangdong, China, 523000



ΥΔΠΞΞΠ**

About KingSpec

Established in 2007, Shenzhen KingSpec Electronics Technology Co., Ltd. focuses on developing cutting-edge storage solutions, providing standardized production, offering expert technical support, and delivering customized storage solutions for specific industrial applications. With 16 years of dedicated industry experience and development, KingSpec has established itself as a globally recognized brand and one of the pioneers in China.

The company operates two brands: KingSpec (Consumer grade) and YANSEN (Industrial wide temperature grade). KingSpec is a consumer brand that offers storage solutions for personal laptops, desktops, and high-end gaming consoles. YANSEN is a brand concentrated on providing solutions for industrial embedded applications. Both brands offer a variety of storage interfaces and include four product lines: Internal SSD, External SSD, DDR and Memory Card.

KingSpec has an independent R&D team that provides one-stop OEM and ODM solutions for industry customers, from product design to mass-production. The company has provided customized solutions to various industries such as Data Center, Industrial Automation, Surveillance, Transportation, Medical, Financial, and AIoT.

Product quality is KingSpec's core competence, and the company has passed ISO9001 quality management systems with strict production management. Plus simulation testing like wide temperature, salt spray, shock & vibration, power loss protection, constant reading and writing is performed. Every product line is internationally certified with FCC, CE, RoHS, REACH, and WEEE.

Now, we have successfully expanded globally, receiving high praise from strategic partners like CNPC, THTF, Great Wall, and more. As a pioneering manufacturer in the storage industry, KingSpec has been recognized as a "China High-tech Enterprise", "China Little Giant Enterprise", "Shenzhen Well-known Brand", and "Well-known and Excellent Enterprise in Guangdong Province".

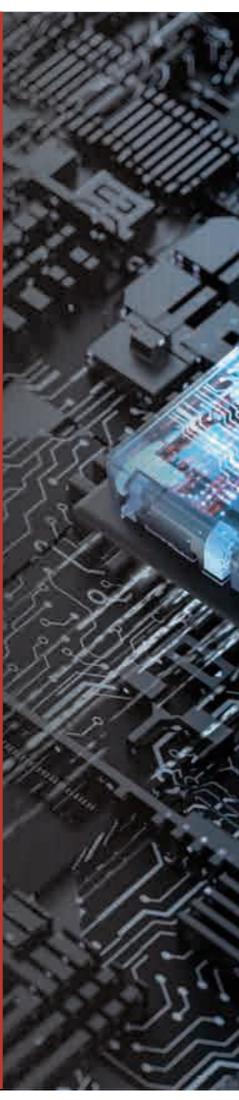
2007

420 - 9,600,000

KingSpec was founded

Workshop area

Annual unit sold





Research & Development (R&D) Team

By integrating the latest NAND technology and advanced controllers, our research team consistently creates SSD solutions with superior performance, increased capacity, and extended lifespan. These solutions cater to the diverse demands of different terminal devices across various application fields.



Production Integration

KingSpec utilizes fully automatic high-speed production and testing equipment combined with ISO9001 standard to ensure production efficiency. KingSpec products are all under Automatic Optical Inspection (AOI) and High/Low temperature industrial environment simulation tests to ensure product quality.



Customized Service

KingSpec offers a comprehensive range of customized services tailored to meet specific requirements, delivering optimal performance, reliability, and functionality. This includes specified firmware and customized functions such as AES encryption, physical destruction, power loss protection, wide temperature tolerance, and write protection.



Quality Management

KingSpec has implemented a strict quality management system to ensure product quality. This system covers R&D design verification test (DVT), engineering verification test (EVT), mass production (with 100% core material passing internal quality control), and production tracking for product and packaging verification.



2.5" SATA SSD

- ♦ Wear Leveling / S.M.A.R.T. / TRIM / Garbage collection
- ♦ Over-provisioning / Secure Erase
- ♦ Native Command Queuing (NCQ) / Bad Block Management
- ♦ Intelligent Power Management
- ◆ Support SATA II 3 Gb/s , SATA I 1.5Gb/s
- ♦ Hot-Swappable
- ◆ End-to-end Data Protection
- ◆ Low Power Consumption

















ΥΔΠ5ΞΠ™ 550

Model	YSISXXX-P130	YSISXXX-S831	YSISXXX-M530	YSISXXX-S220	YSISXXX-S320	YSISXXX-S421
Flash Type	TLC	TLC	TLC	MLC	MLC	MLC
Interface	SATA III/6Gbps	SATA III/6Gbps	SATA III/6Gbps	SATA II/3Gbps	SATA III/6Gbps	SATA III/6Gbps
Capacity	32GB~1TB	1TB~2TB	128GB~2TB	8GB~32GB	64GB~256GB	128GB~1TB
Sequential Read (MAX)	Up to 560MB/s	Up to 570MB/s	Up to 580MB/s	Up to 185MB/s	Up to 500MB/s	Up to 550MB/s
Sequential Write (MAX)	Up to 480MB/s	Up to 500MB/s	Up to 570MB/s	Up to 80MB/s	Up to 350MB/s	Up to 480MB/s
4K Random Read	70000 I OPS	70300 IOPS	91000 IOPS	4110 IOPS	82000 IOPS	70050 I OPS
4K Random Write	81000 IOPS	70100 I OPS	24500 IOPS	355 I OPS	44590 IOPS	63300 I OPS
TBW	1TB/750TB	2TB/1500TB	2TB/1500TB	32GB/40TB	256GB/340TB	1TB/1360TB
Power Consumption (MAX)	1.25W	2.81W	1.85W	0.95W	2.30W	4.42W
MTBF			2 millio	n hours		
Shock		1500G/0.5ms				
Vibration			80Hz~20	00Hz/20G		
Operating Voltage	DC 5V±5%					
Operating Temperature	0°C ~ 70°C					
Storage Temperature	-40℃ ~ 85℃					
Humidity	5%-95% RH non-condensing					
Dimensions	L100.4mm*W70mm*H7.0mm ±0.15mm					
Warranty			3-y	ears		
Certification			RoHS/CE/I	FCC/REACH		
Special Features						
External DRAM	0	•	0	0	0	•
AES 256 Encryption	0	0	0	0	0	•
Power Loss Protection (PLP)	0	•	0	0	0	•
Quick Erase	0	0	•	0	0	0
Write Protection	0	0	0	0	0	0
Pseudo SLC	•	0	0	0	0	0

^{*1.} The read and write values may vary depending on different capacities and testing platforms.

TLC Direct Writing

2.5" SATA SSD

- ♦ Designed for In-vehicle Surveillance
- ♦ Wear Leveling / S.M.A.R.T. / TRIM / Garbage collection
- ♦ Over-provisioning / Secure Erase
- ♦ Native Command Queuing (NCQ) / Bad Block Management
- ♦ Intelligent Power Management
- ♦ End-to-end Data Protection
- ♦ Heat dissipation Technology
- ◆ Support Secure Boot and Hot-Swappable









Model	YSS25G1YDXXXXPNNA	YST25G1YDXXXXXXXX	YST25M5YDXXXXXXXX
Flash Type	TLC	TLC	TLC
Interface	SATA III/6Gbps	SATA II/3Gbps	SATA II/3Gbps
Capacity	960GB~7.68TB	1.92GB~7.68TB	256GB~2TB
Sequential Read (MAX)	Up to 560MB/s	Up to 280MB/s	Up to 275MB/s
Sequential Write (MAX)	Up to 540MB/s	Up to 260MB/s	Up to 245MB/s
4K Random Read	95000 IOPS	33000 IOPS	33000 IOPS
4K Random Write	50000 IOPS	30000 IOPS	30000 IOPS
TBW	7.68TB/8000TB	7.68TB/8000TB	2TB/2000TB
Power Consumption (MAX)	4.5W	4.2W	1.0W
MTBF		2 million hours	
Shock	1500G/0.5ms		
Vibration	80Hz~2000Hz/20G		
Operating Voltage	DC 5V±5%		
Operating Temperature	0°C~70°C / -20°C~75°C		
Storage Temperature	-55℃~95℃		
Humidity	5%-95% RH non-condensing		
Dimensions	L100.4mm*W70mm*H7.0mm ±0.15mm		
Warranty		3-years	
Certification	RoHS/CE/FCC/REACH		
Special Features			
External DRAM	•	•	0
AES 256 Encryption	•	•	0
Power Loss Protection (PLP)	•	•	0
Quick Erase	0	0	0
Write Protection	0	0	0

TLC Direct Writing

Pseudo SLC

^{*2. ●} Avaiable ○ Unavailable

^{*1.} The read and write values may vary depending on different capacities and testing platforms.

^{*2. ●} Avaiable ○ Unavailable

^{*3.} Customization is available for specific application.



2.5" SATA SSD

- ♦ Wear Leveling / S.M.A.R.T. / TRIM / Garbage collection
- ◆ Over-provisioning / Secure Erase
- ♦ Native Command Queuing (NCQ) / Bad Block Management
- ♦ Intelligent Power Management
- ♦ Support SATA II 3 Gb/s , SATA I 1.5Gb/s
- ♦ Hot-Swappable
- ♦ Industrial Wide Temperature
- ♦ High Endurance

















Model	YSS25P2XXXXXXXXXXX	YSS25M2XXXXXXXXXX	YSS25M6XXXXXXXXXXX
Flash Type	TLC	TLC	SLC/MLC
Interface	SATA III/6Gbps	SATA III/6Gbps	SATA III/6Gbps
Capacity	256GB~2TB	256GB~2TB	16GB~128GB
Sequential Read (MAX)	Up to 560MB/s	Up to 570MB/s	Up to 500MB/s
Sequential Write (MAX)	Up to 550MB/s	Up to 520MB/s	Up to 240MB/s
4K Random Read	47000 IOPS	97400 I OPS	12000 IOPS
4K Random Write	90000 IOPS	86500 I OPS	19000 IOPS
TBW	2TB/1500TB	2TB/1500TB	128GB/170TB
Power Consumption (MAX)	1.15W	4.78W	2.0W
MTBF	2 million hours		
Shock	1500G/0.5ms		
Vibration	80Hz~2000Hz/20G		
Operating Voltage	DC 5V±5%		
Operating Temperature	-20°C ~ 75°C / -40°C ~ 85°C		
Storage Temperature	-55℃ ~ 105℃		
Humidity	5%-95% RH non-condensing		
Dimensions	L100.4mm*W70mm*H7.0mm ±0.15mm		
Warranty	3-years		
Certification		RoHS/CE/FCC/REACH	
Special Features			
External DRAM	0	•	0
AES 256 Encryption	0	0	0
Power Loss Protection (PLP)	0	•	0
Quick Erase	0	0	0
Write Protection	0	0	0
Pseudo SLC	0	0	0
TLC Direct Writing	0	0	0

^{*1.} The read and write values may vary depending on different capacities and testing platforms.

2.5" SATA SSD

- ♦ Wear Leveling / S.M.A.R.T. / TRIM / Garbage collection
- ◆ Over-provisioning / Secure Erase
- ♦ Native Command Queuing (NCQ) / Bad Block Management
- ♦ Intelligent Power Management
- ♦ Support SATA II 3 Gb/s , SATA I 1.5Gb/s
- ♦ Hot-Swappable
- ◆ Industrial Wide Temperature
- ♦ High Endurance



















Model	YSS25S2XXXXXXXXXX	YSS25S3XXXXXXXXXX	
Flash Type	SLC/MLC	MLC	
Interface	SATA III/6Gbps	SATA III/6Gbps	
Capacity	8GB~256GB	64GB~1TB	
Sequential Read (MAX)	Up to 550MB/s	Up to 570MB/s	
Sequential Write (MAX)	Up to 250MB/s	Up to 480MB/s	
4K Random Read	21700 IOPS	65090 IOPS	
4K Random Write	21900 IOPS	65200 IOPS	
TBW	256GB/340TB	1TB/1360TB	
Power Consumption (MAX)	2.0W	4.2W	
MTBF	2 millio	on hours	
Shock	1500G	G/0.5ms	
Vibration	80Hz~2000Hz/20G		
Operating Voltage	DC 5V±5%		
Operating Temperature	-20°C ~ 75°C / -40°C ~ 85°C		
Storage Temperature	-55℃ ~ 105℃		
Humidity	5%-95% RH ne	on-condensing	
Dimensions	L100.4mm*W70mn	n*H7.0mm ±0.15mm	
Warranty	3-y	rears	
Certification	RoHS/CE/FCC/REACH		
Special Features			
External DRAM	0	•	
AES 256 Encryption	0	0	
Power Loss Protection (PLP)	•	•	
Quick Erase	•	•	
Write Protection	•	•	

Pseudo SLC TLC Direct Writing

^{*2. ●} Avaiable ○ Unavailable

 $^{^{\}star}$ 1. The read and write values may vary depending on different capacities and testing platforms.

^{*2. ●} Avaiable ○ Unavailable

^{*3.} Customization is available for specific application.



mSATA SSD

- ♦ Wear Leveling / S.M.A.R.T. / TRIM / Garbage collection
- ♦ Over-provisioning / Secure Erase
- ♦ Native Command Queuing (NCQ) / Bad Block Management
- ♦ Intelligent Power Management
- ◆ LDPC & RAID Data Recovery
- ♦ Low Power Consumption
- ♦ DRAM-Less

















Model	YSIMXXX-P130	YSIMXXX-M530	YSIMXXX-S730
Flash Type	TLC	TLC	TLC
Interface	SATA III/6Gbps	SATA III/6Gbps	SATA III/6Gbps
Capacity	32GB~1TB	64GB~2TB	128GB~1TB
Sequential Read (MAX)	Up to 560MB/s	Up to 580MB/s	Up to 570MB/s
Sequential Write (MAX)	Up to 480MB/s	Up to 560MB/s	Up to 540MB/s
4K Random Read	70000 IOPS	52000 IOPS	15500 IOPS
4K Random Write	81000 IOPS	67000 IOPS	14700 IOPS
TBW	1TB/750TB	2TB/1500TB	1TB/750TB
Power Consumption (MAX)	1.66W	1.15W	1.90W
MTBF		2 million hours	
Shock	1500G/0.5ms		
Vibration	80Hz~2000Hz/20G		
Operating Voltage	DC 3.3V±5%		
Operating Temperature	0°C ~ 70°C		
Storage Temperature	-40℃ ~ 85℃		
Humidity	5%-95% RH non-condensing		
Dimensions	L50.95mm*W30.0mm*H3.5mm ±0.15mm		
Warranty	3-years		
Certification		RoHS/CE/FCC/REACH	
Special Features			
External DRAM	0	0	0
AES 256 Encryption	0	0	0
Power Loss Protection (PLP)	0	0	0
Quick Erase	•	0	0
Write Protection	•	0	0
Pseudo SLC	•	0	0
TLC Direct Writing	0	•	0

^{*1.} The read and write values may vary depending on different capacities and testing platforms.

mSATA SSD

- ♦ Wear Leveling / S.M.A.R.T. / TRIM / Garbage collection
- Over-provisioning / Secure Erase
- ♦ Native Command Queuing (NCQ) / Bad Block Management
- ♦ Intelligent Power Management
- ♦ Low Power Consumption
- ♦ Hot-Swappable
- ♦ Anti-Sulfuration applicable













Model	YSIMXXX-S220	YSIMXXX-S320	YSIMXXX-S421
Flash Type	MLC	MLC	MLC
Interface	SATA II/3Gbps	SATA III/6Gbps	SATA III/6Gbps
Capacity	8GB~32GB	32GB~256GB	128GB~1TB
Sequential Read (MAX)	Up to 185MB/s	Up to 500MB/s	Up to 550MB/s
Sequential Write (MAX)	Up to 80MB/s	Up to 350MB/s	Up to 480MB/s
4K Random Read	3686 IOPS	48100 IOPS	69800 IOPS
4K Random Write	223 IOPS	55360 IOPS	76090 IOPS
TBW	32GB/40TB	256GB/340TB	1TB/1360TB
Power Consumption (MAX)	0.61W	2.47W	2.97W
MTBF	0.0100	2 million hours	2.77 **
Shock			
Vibration	1500G/0.5ms		
Operating Voltage	80Hz~2000Hz/20G DC 3.3V±5%		
, 3	0°C ~ 70°C		
Operating Temperature	-40°C ~ 85°C		
Storage Temperature			
Humidity	5%-95% RH non-condensing L50.95mm*W30.0mm*H3.5mm ±0.15mm		
Dimensions	LOU		DIIIIII
Warranty		3-years	
Certification		RoHS/CE/FCC/REACH	
Special Features			
External DRAM	0	0	•
AES 256 Encryption	0	0	0
Power Loss Protection (PLP)	0	0	0
Quick Erase	0	0	0
Write Protection	0	0	0
Pseudo SLC	0	•	•
TLC Direct Writing	0	0	0

 $^{^{\}star}$ 1. The read and write values may vary depending on different capacities and testing platforms.

^{*2. ●} Avaiable ○ Unavailable

^{*3.} Customization is available for specific application.

^{*2. ●} Avaiable ○ Unavailable

^{*3.} Customization is available for specific application.



mSATA SSD

- ♦ Wear Leveling / S.M.A.R.T. / TRIM / Garbage collection
- Over-provisioning / Secure Erase
- ♦ Native Command Queuing (NCQ) / Bad Block Management
- ♦ Intelligent Power Management
- ◆ Low Power Consumption
- ♦ Hot-Swappable
- ♦ Industrial Wide Temperature
- ◆ DRAM-Less

















Model	YSSM1P2XXXXXXXXXX	YSSM1M6XXXXXXXXXX	
Flash Type	TLC SLC/MLC		
Interface	SATA III/6Gbps	SATA III/6Gbps	
Capacity	256GB~2TB	16GB~128GB	
Sequential Read (MAX)	Up to 560MB/s	Up to 500MB/s	
Sequential Write (MAX)	Up to 550MB/s	Up to 240MB/s	
4K Random Read	46000 IOPS	12000 IOPS	
4K Random Write	90000 IOPS	19000 IOPS	
TBW	2TB/1500TB	128GB/170TB	
Power Consumption (MAX)	0.71W	1.9W	
MTBF	2 millio	n hours	
Shock	1500G/0.5ms		
Vibration	80Hz~2000Hz/20G		
Operating Voltage	DC 3.3V±5%		
Operating Temperature	-20°C ~ 75°C / -40°C ~ 85°C		
Storage Temperature	-55℃ ~ 105℃		
Humidity	5%-95% RH non-condensing		
Dimensions	L50.95mm*W30.0mm*H3.5mm ±0.15mm		
Warranty	3-years		
Certification	RoHS/CE/F	FCC/REACH	
Special Features			
External DRAM	0	0	
AES 256 Encryption	0	0	
Power Loss Protection (PLP)	0	0	
Quick Erase	0	0	
Write Protection	0	0	
Pseudo SLC	0	0	
TLC Direct Writing	0	0	

 $^{^{\}star}$ 1. The read and write values may vary depending on different capacities and testing platforms.

mSATA SSD

- ♦ Wear Leveling / S.M.A.R.T. / TRIM / Garbage collection
- ♦ Over-provisioning / Secure Erase
- ♦ Native Command Queuing (NCQ) / Bad Block Management
- ♦ Intelligent Power Management
- ♦ Low Power Consumption
- ♦ Hot-Swappable
- ♦ Industrial Wide Temperature













Model	YSSM1S2XXXXXXXXX	YSSM1S3XXXXXXXXX
Flash Type	SLC/MLC	MLC
Interface	SATA III /6Gbps	SATA III/6Gbps
Capacity	8GB~256GB	128GB~1TB
Sequential Read (MAX)	Up to 550MB/s	Up to 570MB/s
Sequential Write (MAX)	Up to 250MB/s	Up to 480MB/s
4K Random Read	21490 IOPS	68000 IOPS
4K Random Write	21750 IOPS	72900 IOPS
TBW	256GB/340TB	1TB/1360TB
Power Consumption (MAX)	2.01W	2.37W
MTBF	2 millio	n hours
Shock	1500G/0.5ms	
Vibration	80Hz~2000Hz/20G	
Operating Voltage	DC 3.3V±5%	
Operating Temperature	-20°C ~ 75°C / -40°C ~ 85°C	
Storage Temperature	-55℃ ~ 105℃	
Humidity	5%-95% RH non-condensing	
Dimensions	L50.95mm*W30.0mm*H3.5mm ±0.15mm	
Warranty	3-ye	ears
Certification	RoHS/CE/F	FCC/REACH
Special Features		
External DRAM	0	•
AES 256 Encryption	0	0
Power Loss Protection (PLP)	0	•
Quick Erase	0	0
Write Protection	0	
Pseudo SLC	•	•

 $^{^{\}star}$ 1. The read and write values may vary depending on different capacities and testing platforms.

TLC Direct Writing

^{*2. ●} Avaiable ○ Unavailable

^{*3.} Customization is available for specific application.

^{*2. ●} Avaiable ○ Unavailable

^{*3.} Customization is available for specific application.



M.2 2280/2242 SATA SSD

- ♦ Wear Leveling / S.M.A.R.T. / TRIM / Garbage collection
- ♦ Over-provisioning / Secure Erase
- ♦ Native Command Queuing (NCQ) / Bad Block Management
- ♦ Intelligent Power Management
- ◆ Low Power Consumption
- ♦ Hot-Swappable
- DRAM-Less









Model	YSITXXX-P130 2280	YSITXXX-P130 2242	YSITXXX-P330 2242	
Flash Type	TLC	TLC	MLC	
Interface	SATA III/6Gbps	SATA III/6Gbps	SATA III/6Gbps	
Capacity	32GB~1TB	32GB~512GB	128GB~1TB	
Sequential Read (MAX)	Up to 560MB/s	Up to 560MB/s	Up to 560MB/s	
Sequential Write (MAX)	Up to 480MB/s	Up to 480MB/s	Up to 540MB/s	
4K Random Read	69000 IOPS	70000 IOPS	48000 IOPS	
4K Random Write	81000 IOPS	81000 IOPS	90000 IOPS	
TBW	1TB/750TB	512GB/375TB	1TB/750TB	
Power Consumption (MAX)	1.62W	1.54W	0.68W	
MTBF		2 million hours		
Shock		1500G/0.5ms		
Vibration		80Hz~2000Hz/20G		
Operating Voltage	DC 3.3V±5%			
Operating Temperature	0°C ~ 70°C			
Storage Temperature	-40℃ ~ 85℃			
Humidity	5%-95% RH non-condensing			
Dimensions	L80.0mm*W22.0mm*H2.1mm ±0.15mm	L42.0mm*W22.0mm*H3.5mm ±0.15mm	L42.0mm*W22.0mm*H3.5mm ±0.15mm	
Warranty		3-years		
Certification		RoHS/CE/FCC/REACH		
Special Features				
External DRAM	0	0	0	
AES 256 Encryption	0	0	0	
Power Loss Protection (PLP)	0	0	0	
Quick Erase	0	0	0	
Write Protection	0	0	0	
Pseudo SLC	•	0	0	
TLC Direct Writing	0	0	0	

 $^{^{\}star}$ 1. The read and write values may vary depending on different capacities and testing platforms.

M.2 2280/2242 SATA SSD

- ♦ Wear Leveling / S.M.A.R.T. / TRIM / Garbage collection
- ♦ Over-provisioning / Secure Erase
- ♦ Native Command Queuing (NCQ) / Bad Block Management
- ♦ Intelligent Power Management
- ♦ Low Power Consumption
- ♦ Hot-Swappable
- DRAM-Less













Model	YSITXXX-M530 2280	YSITXXX-M530 2242	YSITXXX-S320 2242
Flash Type	TLC	TLC	MLC
Interface	SATA III/6Gbps	SATA III/6Gbps	SATA III/6Gbps
Capacity	128GB~2TB	64GB~1TB	64GB~256GB
Sequential Read (MAX)	Up to 580MB/s	Up to 570MB/s	Up to 550MB/s
Sequential Write (MAX)	Up to 550MB/s	Up to 550MB/s	Up to 300MB/s
4K Random Read	86500 IOPS	89000 IOPS	31110 IOPS
4K Random Write	64000 IOPS	73000 IOPS	61340 I OPS
TBW	2TB/1500TB	1TB/750TB	256GB/340TB
Power Consumption (MAX)	1.14W	1.22W	1.89W
MTBF	2 million hours		
Shock	1500G/0.5ms		
Vibration	80Hz~2000Hz/20G		
Operating Voltage	DC 3.3V±5%		
Operating Temperature	0°C ~ 70°C		
Storage Temperature	-40℃ ~ 85℃		
Humidity		5%-95% RH non-condensing	
Dimensions	L80.0mm*W22.0mm*H2.1mm ±0.15mm	L42.0mm*W22.0mm*H3.5mm ±0.15mm	L42.0mm*W22.0mm*H3.5mm ±0.15mm
Warranty		3-years	
Certification		RoHS/CE/FCC/REACH	
Special Features			
External DRAM	0	0	0
AES 256 Encryption	0	0	0
Power Loss Protection (PLP)	0	0	0
Quick Erase	0	0	0
Write Protection	0	0	0
Pseudo SLC	0	0	•
TLC Direct Writing	•	•	0

^{*1.} The read and write values may vary depending on different capacities and testing platforms.

^{*2. ●} Avaiable ○ Unavailable

^{*2. ●} Avaiable ○ Unavailable

^{*3.} Customization is available for specific application.



M.2 2280 SATA SSD

- ♦ Wear Leveling / S.M.A.R.T. / TRIM / Garbage collection
- ♦ Over-provisioning / Secure Erase
- ♦ Native Command Queuing (NCQ) / Bad Block Management
- ♦ Intelligent Power Management
- ◆ Low Power Consumption
- ♦ Hot-Swappable
- ◆ DRAM-Less
- ◆ Industrial Wide Temperature











Model YSSN3P2XXXXXXXXXX 2280 Flash Type TLC SATA III/6Gbps Interface 256GB~2TB Capacity Sequential Read (MAX) Up to 560MB/s Sequential Write (MAX) Up to 550MB/s 4K Random Read 47000 IOPS 4K Random Write 90000 IOPS TBW 2TB/1500TB 0.69W Power Consumption (MAX) MTBF 2 million hours Shock 1500G/0.5ms 80Hz~2000Hz/20G Vibration DC 3.3V±5% Operating Voltage -20°C ~ 75°C / -40°C ~ 85°C Operating Temperature Storage Temperature -55°C ~ 105°C Humidity 5%-95% RH non-condensing L80.0mm*W22.0mm*H2.2mm ±0.15mm Dimensions 3-years Warranty Certification RoHS/CE/FCC/REACH Special Features External DRAM AES 256 Encryption Power Loss Protection (PLP) Quick Erase Write Protection Pseudo SLC

TLC Direct Writing

M.2 2242 SATA SSD

- ♦ Wear Leveling / S.M.A.R.T. / TRIM / Garbage collection
- Over-provisioning / Secure Erase
- ♦ Native Command Queuing (NCQ) / Bad Block Management
- ♦ Intelligent Power Management
- ♦ Low Power Consumption
- ♦ Hot-Swappable
- DRAM-Less
- ◆ Industrial Wide Temperature









Model	YSSN1S2XXXXXXXXX 2242
Flash Type	SLC/MLC
Interface	SATA III/6Gbps
Capacity	8GB~256GB
Sequential Read (MAX)	Up to 550MB/s
Sequential Write (MAX)	Up to 250MB/s
4K Random Read	21100 IOPS
4K Random Write	21300 IOPS
TBW	256GB/340TB
Power Consumption (MAX)	2.15W
MTBF	2 million hours
Shock	1500G/0.5ms
Vibration	80Hz~2000Hz/20G
Operating Voltage	DC 3.3V±5%
Operating Temperature	-20°C ~ 75°C / -40°C ~ 85°C
Storage Temperature	-55℃ ~ 105℃
Humidity	5%-95% RH non-condensing
Dimensions	L42.0mm*W22.0mm*H3.5mm ±0.15mm
Warranty	3-years
Certification	RoHS/CE/FCC/REACH
Special Features	
External DRAM	0
AES 256 Encryption	0
Power Loss Protection (PLP)	0
Quick Erase	0
Write Protection	0
Pseudo SLC	•

 $^{^{\}star}$ 1. The read and write values may vary depending on different capacities and testing platforms.

TLC Direct Writing

 $^{^{\}star}$ 1. The read and write values may vary depending on different capacities and testing platforms.

^{*2. ●} Avaiable ○ Unavailable

^{*3.} Customization is available for specific application

^{*2. ●} Avaiable ○ Unavailable

^{*3.} Customization is available for specific application.



M.2 2280/2242 NVMe SSD

- ♦ Wear Leveling / S.M.A.R.T. / TRIM / Garbage collection
- ◆ Over-provisioning / Secure Erase
- ♦ Native Command Queuing (NCQ) / Bad Block Management
- ◆ Intelligent Power Management
- ♦ Support NVMe 1.4
- ◆ Super Read/Write Performance
- ◆ Thermal Sensor





















Model YSINXXX-M430 2280 YSINXXX-M430 2242 YSINXXX-M430 2242BM Flash Type TLC TLC TLC PICe Gen3 x 4, NVMe 1.4 PICe Gen3 x 4, NVMe 1.4 PCle Gen3 x2, NVMe 1.4 Interface Capacity 128GB~2TB 128GB~2TB 64GB~512GB Sequential Read (MAX) Up to 3500MB/s Up to 3500MB/s Up to 1100MB/s Sequential Write (MAX) Up to 3000MB/s Up to 3000MB/s Up to 1000MB/s 4K Random Read 420000 IOPS 96720 IOPS 380000 IOPS 4K Random Write 320000 IOPS 250000 IOPS 13980 IOPS TBW 2TB/1500TB 2TB/1500TB 512GB/375TB Power Consumption (MAX) 4.39W 4.19W 2.0W MTBF 2 million hours Shock 1500G/0.5ms 80Hz~2000Hz/20G Vibration DC 3.3V±5% Operating Voltage Operating Temperature 0°C ~ 70°C Storage Temperature -40°C ~ 85°C 5%-95% RH non-condensing Humidity L42.0mm*W22.0mm*H3.5mm ±0.15mm L42.0mm*W22.0mm*H3.2mm ±0.1mm Dimensions L80.0mm*W22.0mm*H2.1mm ±0.1mm 3-years Warranty Certification RoHS/CE/FCC/REACH Special Features External DRAM AES 256 Encryption Power Loss Protection (PLP) Quick Erase Write Protection Pseudo SLC TLC Direct Writing

M.2 2280 NVMe SSD

- ♦ Wear Leveling / S.M.A.R.T. / TRIM / Garbage collection
- ♦ Over-provisioning / Secure Erase
- ♦ Native Command Queuing (NCQ) / Bad Block Management
- ♦ Intelligent Power Management
- ♦ Support NVMe 1.4
- ◆ Super Read/Write Performance
- ◆ Thermal Sensor
- ◆ Industrial Wide Temperature





















Model	YSNN5M3XXXXXXXXX 2280
Flash Type	TLC
Interface	PICe Gen3 x 4, NVMe 1.4
Capacity	128GB~2TB
Sequential Read (MAX)	Up to 3500MB/s
Sequential Write (MAX)	Up to 3200MB/s
4K Random Read	380000 IOPS
4K Random Write	320000 IOPS
TBW	2TB/1500TB
Power Consumption (MAX)	4.26W
MTBF	2 million hours
Shock	1500G/0.5ms
Vibration	80Hz~2000Hz/20G
Operating Voltage	DC 3.3V±5%
Operating Temperature	-20°C ~ 75°C / -40°C ~ 85°C
Storage Temperature	-55℃ ~ 105℃
Humidity	5%-95% RH non-condensing
Dimensions	L80.0mm*W22.0mm*H2.1mm ±0.15mm
Warranty	3-years
Certification	RoHS/CE/FCC/REACH
Special Features	
External DRAM	0
AES 256 Encryption	0
Power Loss Protection (PLP)	0
Quick Erase	•
Write Protection	0
Pseudo SLC	0

^{*1.} The read and write values may vary depending on different capacities and testing platforms.

TLC Direct Writing

 $^{^{\}star}$ 1. The read and write values may vary depending on different capacities and testing platforms.

^{*2. ●} Avaiable ○ Unavailable

^{*2. ●} Avaiable ○ Unavailable



44PIN/40PIN DOM

- ♦ Wear Leveling / S.M.A.R.T. / TRIM / Garbage collection
- Over-provisioning / Secure Erase
- ♦ Native Command Queuing (NCQ) / Bad Block Management
- ◆ Intelligent Power Management
- ♦ IDE Protocol
- ♦ 44 Pin Horizontal Dom & 40 Pin Vertical Dom
- ♦ Selectable SLC/MLC
- ◆ Low Power Consumption







Model	YS44H6-XXX	YS44H6-XXXS	YS40V2-XXX	YS40V2-XXXS
Flash Type	MLC	SLC	MLC	SLC
Interface	ATA/ATAPI-7	ATA/ATAPI-7	ATA/ATAPI-7	ATA/ATAPI-7
Capacity	8GB~64GB	8GB~32GB	8GB~64GB	4GB~16GB
Sequential Read (MAX)	Up to 70MB/s	Up to 110MB/s	Up to 70MB/s	Up to 110MB/s
Sequential Write (MAX)	Up to 45MB/s	Up to 95MB/s	Up to 45MB/s	Up to 85MB/s
4K Random Read	3800 IOPS	3000 IOPS	3800 IOPS	3200 IOPS
4K Random Write	600 IOPS	610 IOPS	438 IOPS	620 IOPS
TBW	64GB/85TB	32GB/1420TB	64GB/85TB	16GB/710TB
Power Consumption (MAX)	1.30W	1.20W	1.75W	1.60W
MTBF	2 million hours			
Shock	1500G/0.5ms			
Vibration	80Hz~2000Hz/20G			
Operating Voltage	DC 5V±5%			
Operating Temperature	0°C ~ 70°C			
Storage Temperature	-40℃ ~ 85℃			
Humidity	5%-95% RH non-condensing			
Dimensions	L48.0mm*W32.0mm*H4.0mm ±0.5mm L59.4mm*W27.45mm*H8.36mm ±0.5mm			m*H8.36mm ±0.5mm
Warranty		3-y	ears	
Certification		RoHS/CE/I	FCC/REACH	
Special Features				
External DRAM	0	0	0	0
AES 256 Encryption	0	0	0	0
Power Loss Protection (PLP)	0	0	0	0
Quick Erase	0	0	0	0
Write Protection	0	0	0	0
Pseudo SLC	0	0	0	0
TLC Direct Writing	0	0	0	0

 $^{^{\}star}$ 1. The read and write values may vary depending on different capacities and testing platforms.

USB DOM

- ♦ Wear Leveling / S.M.A.R.T. / TRIM / Garbage collection
- ♦ Over-provisioning / Secure Erase
- ♦ Native Command Queuing (NCQ) / Bad Block Management
- ♦ Intelligent Power Management
- ♦ USB 2.0 Protocol
- ♦ Low Power Consumption
- ◆ Industrial Wide Temperature
- ♦ Selectable SLC/MLC





Model	YSUUDH1XXXXXXXXX
Flash Type	SLC/MLC
Interface	USB Rev.2.0(480Mbps)
Capacity	8GB~64GB
Sequential Read (MAX)	Up to 35MB/s
Sequential Write (MAX)	Up to 25MB/s
4K Random Read	1700 IOPS
4K Random Write	1100 IOPS
TBW	64GB/85TB
Power Consumption (MAX)	0.68W
MTBF	2 million hours
Shock	1500G/0.5ms
Vibration	80Hz~2000Hz/20G
Operating Voltage	DC 5V±5%
Operating Temperature	-20°C ~ 75°C, -40°C ~ 85°C
Storage Temperature	-55°C ∼ +105°C
Humidity	5%-95% RH non-condensing
Dimensions	L36.9mm*W26.6mm*H9.6mm ±0.15mm
Warranty	3-years
Certification	RoHS/CE/FCC/REACH
Special Features	
External DRAM	0
AES 256 Encryption	0
Power Loss Protection (PLP)	0
Quick Erase	0
Write Protection	•
Pseudo SLC	0
TLC Direct Writing	0

^{*1.} The read and write values may vary depending on different capacities and testing platforms.

^{*2. ●} Avaiable ○ Unavailable

^{*3.} Customization is available for specific application.

^{*2. ●} Avaiable ○ Unavailable

^{*3.} Customization is available for specific applica



SATA DOM

- ♦ Wear Leveling / S.M.A.R.T. / TRIM / Garbage collection
- ♦ Over-provisioning / Secure Erase
- ♦ Native Command Queuing (NCQ) / Bad Block Management
- ♦ Intelligent Power Management
- ♦ Support SATA II 3 Gb/s , SATA I 1.5Gb/s
- ◆ Low Power Consumption
- ◆ DRAM-Less
- ♦ Hot-Swappable

















Model	YSSDVP1-XXX	YSSDV-XXX	YSSDV-XXXS
Flash Type	TLC	MLC	SLC
Interface	SATA III/6Gbps	SATA III/6Gbps	SATA III/6Gbps
Capacity	32GB~256GB	8GB~32GB	8GB~32GB
Sequential Read (MAX)	Up to 520MB/s	Up to 220MB/s	Up to 220MB/s
Sequential Write (MAX)	Up to 450MB/s	Up to 80MB/s	Up to 80MB/s
4K Random Read	58000 IOPS	4100 IOPS	8200 IOPS
4K Random Write	77000 IOPS	215 IOPS	6000 IOPS
TBW	256GB/185TB	32GB/40TB	32GB/1420TB
Power Consumption (MAX)	0.88W	0.8W	0.80W
MTBF		2 million hours	
Shock	1500G/0.5ms		
Vibration	80Hz~2000Hz/20G		
Operating Voltage	DC 5V±5%		
Operating Temperature	0°C ~ 70°C -40°C ~ 85°C		
Storage Temperature			
Humidity	5%-95% RH non-condensing L47.8mm*W30.6mm*H4.5mm ±0.15mm L47.8mm*W25.0mm*H9.3mm ±0.5mm L47.8mm*W25.0mm*H9.3mm ±0.5mm		
Dimensions			L47.8mm*W25.0mm*H9.3mm ±0.5mm
Warranty		3-years	
Certification		RoHS/CE/FCC/REACH	
Special Features			
External DRAM	0 0		0
AES 256 Encryption	0 0		0
Power Loss Protection (PLP)	0	0	0
Quick Erase	0	0	0
Write Protection	0	•	•
Pseudo SLC	0	•	0
TLC Direct Writing	0		0

 $^{^{\}star}$ 1. The read and write values may vary depending on different capacities and testing platforms.

SATA DOM

- ♦ Wear Leveling / S.M.A.R.T. / TRIM / Garbage collection
- ♦ Over-provisioning / Secure Erase
- ♦ Native Command Queuing (NCQ) / Bad Block Management
- ♦ Intelligent Power Management
- ♦ Support SATA II 3 Gb/s , SATA I 1.5Gb/s
- ◆ DRAM-Less / Hot-Swappable
- ♦ Industrial Wide Temperature
- ♦ Selectable SLC/MLC















Model	YSSD2S2XXXXXXXXXX	YSSD3S2XXXXXXXXX	
Flash Type	SLC/MLC	SLC/MLC	
Interface	SATA III/6Gbps	SATA III/6Gbps	
Capacity	8GB~256GB	8GB~256GB	
Sequential Read (MAX)	Up to 550MB/s	Up to 450MB/s	
Sequential Write (MAX)	Up to 250MB/s	Up to 200MB/s	
4K Random Read	23500 IOPS	15000 IOPS	
4K Random Write	23800 IOPS	13300 IOPS	
TBW	256GB/340TB	256GB/340TB	
Power Consumption (MAX)	2.1W	1.55W	
MTBF	2 million hours		
Shock	1500G.	/0.5ms	
Vibration	80Hz~2000Hz/20G		
Operating Voltage	DC 5V±5%		
Operating Temperature	-20°C ~ 75°C, -40°C ~ 85°C		
Storage Temperature	-55°C ~ +105°C		
Humidity	5%-95% RH non-condensing		
Dimensions	L44.0mm*W29.87mm*H10.5mm ±0.15mm	L39.5mm*W25.0mm*H9.3mm ±0.15mm	
Warranty	3-years		
Certification	RoHS/CE/F	FCC/REACH	
Special Features			
External DRAM	0	0	
AES 256 Encryption	0	0	
Power Loss Protection (PLP)	0	0	
Quick Erase	0	0	
Write Protection	•	•	
Pseudo SLC	•	•	

^{*1.} The read and write values may vary depending on different capacities and testing platforms.

TLC Direct Writing

^{*2. ●} Avaiable ○ Unavailable

^{*3.} Customization is available for specific application

^{*2. ●} Avaiable ○ Unavailable

^{*3.} Customization is available for specific applications



2.5" PATA SSD

- ♦ Wear Leveling / S.M.A.R.T. / TRIM / Garbage collection
- ♦ Over-provisioning / Secure Erase
- ♦ Native Command Queuing (NCQ) / Bad Block Management
- ♦ Intelligent Power Management
- ◆ Low Power Consumption
- ◆ DRAM-Less





Model	YSPA25-XXX	YSPA25-XXXS
Flash Type	MLC	SLC
Interface	ATA/ATAPI-7	ATA/ATAPI-7
Capacity	16GB~256GB	8GB~64GB
Sequential Read (MAX)	Up to 110MB/s	Up to 120MB/s
Sequential Write (MAX)	Up to 80MB/s	Up to 100MB/s
4K Random Read	3120 IOPS	4000 IOPS
4K Random Write	472 IOPS	700 IOPS
TBW	256GB/340TB	64GB/2840TB
Power Consumption (MAX)	1.75W	1.15W
MTBF	2 million	n hours
Shock	1500G/	0.5ms
Vibration	1500G/0.5ms 80Hz~2000Hz/20G	
Operating Voltage	DC 5V±5%	
Operating Temperature	0°C ~	70°C
Storage Temperature	-40℃	~ 85℃
Humidity	5%-95% RH non-condensing	
Dimensions	L100.2mm*W69.8mm*H9.0mm ±0.5mm	
Warranty	3-years	
Certification	RoHS/CE/F	CC/REACH
Special Features		
External DRAM	0	0
AES 256 Encryption	0	0
Power Loss Protection (PLP)	0	0
Quick Erase	0	0
Write Protection	0	0
Pseudo SLC	0	0

 $^{^{\}star}$ 1. The read and write values may vary depending on different capacities and testing platforms.

TLC Direct Writing

2.5" PATA SSD

- ♦ Wear Leveling / S.M.A.R.T. / TRIM / Garbage collection
- Over-provisioning / Secure Erase
- ♦ Native Command Queuing (NCQ) / Bad Block Management
- ◆ Intelligent Power Managemente
- ♦ Selectable SLC/MLC
- DRAM-Less
- ◆ Industrial Wide Temperature







Model	YSP25S1XXXXXXXXXX	
Flash Type	SLC/MLC	
Interface	ATA-7(133MBps)	
Capacity	8GB~128GB	
Sequential Read (MAX)	Up to 125MB/s	
Sequential Write (MAX)	Up to 100MB/s	
4K Random Read	2500 IOPS	
4K Random Write	500 IOPS	
TBW	28GB/170TB	
Power Consumption (MAX)	1.6W	
MTBF	2 million hours	
Shock	1500G/0.5ms	
Vibration	80Hz~2000Hz/20G	
Operating Voltage	DC 5V±5%	
Operating Temperature	-20°C ~ 75°C / -40°C ~ 85°C	
Storage Temperature	-55°C ~ 105°C	
Humidity	5%-95% RH non-condensing	
Dimensions	L100mm*W69.8mm*H9.6mm ±0.15mm	
Warranty	3-years	
Certification	RoHS/CE/FCC/REACH	
Special Features		
External DRAM	0	
AES 256 Encryption	0	
Power Loss Protection (PLP)	0	
Quick Erase	0	
Write Protection	0	

TLC Direct Writing

Pseudo SLC

^{*2. ●} Avaiable ○ Unavailable

^{*3.} Customization is available for specific application

 $^{^{\}star}$ 1. The read and write values may vary depending on different capacities and testing platforms.

^{*2. ●} Avaiable ○ Unavailable

^{*3.} Customization is available for specific application.



CF Card

- ♦ Wear Leveling / S.M.A.R.T. / TRIM / Garbage collection
- ♦ Over-provisioning / Secure Erase
- ♦ Native Command Queuing (NCQ) / Bad Block Management
- ♦ Intelligent Power Management
- ♦ Low Power Consumption
- DRAM-Less















Model	YSCF2-XXX	YSCF2-XXXS	YSCF6-XXX	YSCF6-XXXS
Flash Type	MLC	SLC	MLC	SLC
Interface	ATA/ATAPI-7	ATA/ATAPI-7	ATA/ATAPI-7	ATA/ATAPI-7
Capacity	8GB~64GB	8GB~64GB	8GB~128GB	16GB~64GB
Sequential Read (MAX)	Up to 60MB/s	Up to 120MB/s	Up to 80MB/s	Up to 120MB/s
Sequential Write (MAX)	Up to 35MB/s	Up to 90MB/s	Up to 50MB/s	Up to 90MB/s
4K Random Read	3100 IOPS	4000 IOPS	3120 IOPS	4000 IOPS
4K Random Write	517 IOPS	700 IOPS	474 IOPS	700 I OPS
TBW	64GB/85TB	64GB/2840TB	128GB/170TB	64GB/2840TB
Power Consumption (MAX)	0.99W	1.15W	0.99W	1.15W
MTBF		2 millio	n hours	
Shock		1500G	/0.5ms	
Vibration		80Hz~200	00Hz/20G	
Operating Voltage		DC 3.3	3V±5%	
Operating Temperature		0°C ~	70℃	
Storage Temperature		-40°C	~ 85℃	
Humidity		5%-95% RH no	n-condensing	
Dimensions		L42.8mm*W36.4mn	n*H3.3mm ±0.5mm	
Warranty		3-y€	ears	
Certification		RoHS/CE/F	CC/REACH	
Special Features				
External DRAM	0	0	0	0
AES 256 Encryption	0	0	0	0
Power Loss Protection (PLP)	0	0	0	0
Quick Erase	0	0	0	0
Write Protection	0	0	0	0
Pseudo SLC	0	0	0	0
TLC Direct Writing	0	0	0	0

^{*1.} The read and write values may vary depending on different capacities and testing platforms.

CF Card

- ♦ Wear Leveling / S.M.A.R.T. / TRIM / Garbage collection
- ♦ Over-provisioning / Secure Erase
- ♦ Native Command Queuing (NCQ) / Bad Block Management
- ♦ Intelligent Power Management
- ♦ Low Power Consumption
- ◆ DRAM-Less
- ◆ Industrial Wide Temperature













YSPCFS1XXXXXXXXX	
SLC/MLC	
ATA/ATAPI-7	
8GB~128GB	
Up to 80MB/s	
Up to 50MB/s	
3120 IOPS	
474 IOPS	
128GB/170TB	
0.99W	
2 million hours	
1500G/0.5ms	
80Hz~2000Hz/20G	
DC 3.3V±5%	
L42.8mm*W36.4mm*H3.3mm ±0.5mm	
-20°C ~ 75°C / -40°C ~ 85°C	
-55℃ ~ 105℃	
5%-95% RH non-condensing	
3-years	
RoHS/CE/FCC/REACH	

Special Features

External DRAM	0
AES 256 Encryption	0
Power Loss Protection (PLP)	0
Quick Erase	0
Write Protection	0
Pseudo SLC	0
TLC Direct Writing	0

^{*1.} The read and write values may vary depending on different capacities and testing platforms.

^{*2. ●} Avaiable ○ Unavailable

^{*3.} Customization is available for specific application.

^{*2. ●} Avaiable ○ Unavailable

^{*3.} Customization is available for specific application.



CFast

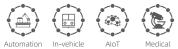
- ♦ Wear Leveling / S.M.A.R.T. / TRIM / Garbage collection
- ♦ Over-provisioning / Secure Erase
- ♦ Native Command Queuing (NCQ) / Bad Block Management
- ♦ Intelligent Power Management
- ◆ Low Power Consumption
- ♦ SLC Solution Supported















Model	YSCS-XXX	YSCS-XXXS	
Flash Type	MLC/TLC	SLC	
Interface	SATA III/6Gbps	SATA III/6Gbps	
Capacity	16GB~1TB	8GB~32GB	
Sequential Read (MAX)	Up to 570MB/s	Up to 260MB/s	
Sequential Write (MAX)	Up to 530MB/s	Up to 160MB/s	
4K Random Read	61830 IOPS	6000 IOPS	
4K Random Write	61750 IOPS	800 IOPS	
TBW	1TB/750TB	32GB/1420TB	
Power Consumption (MAX)	1.85W	1.01W	
MTBF	2 million hours		
Shock	1500G/0.5ms		
Vibration	80Hz~2000Hz/20G		
Operating Voltage	DC 3.3V±5%		
Operating Temperature	0°C ~ 70°C		
Storage Temperature	-40℃	~ 85℃	
Humidity 5%-95% RH		n-condensing	
Dimensions	L42.8mm*W36.4mm*H3.3mm ±0.5mm		
Warranty	3-ye	ars	
Certification	RoHS/CE/FCC/REACH		

Special Features

Special realares		
External DRAM	•	0
AES 256 Encryption	0	0
Power Loss Protection (PLP)	0	0
Quick Erase	0	0
Write Protection	0	0
Pseudo SLC	0	0
TLC Direct Writing	•	0

^{*1.} The read and write values may vary depending on different capacities and testing platforms.

CFast

- ♦ Wear Leveling / S.M.A.R.T. / TRIM / Garbage collection
- ♦ Over-provisioning / Secure Erase
- ♦ Native Command Queuing (NCQ) / Bad Block Management
- ♦ Intelligent Power Management
- ♦ Low Power Consumption
- ♦ Industrial Wide Temperature











ΥΔΠ5ΞΠ 元存

Automation In-vehicle AloT Medical

Model	YSSCSS5XXXXXXXXX	
Flash Type	TLC	
Interface	SATA III/6Gbps	
Capacity	256GB~1TB	
Sequential Read (MAX)	Up to 570MB/s	
Sequential Write (MAX)	Up to 530MB/s	
4K Random Read	61830 IOPS	
4K Random Write	61750 IOPS	
TBW	1TB/750TB	
Power Consumption (MAX)	1.85W	
MTBF	2 million hours	
Shock	1500G/0.5ms	
Vibration	80Hz~2000Hz/20G	
Operating Voltage	DC 3.3V±5%	
Operating Temperature	-20°C ~ 75°C / -40°C ~ 85°C	
Storage Temperature	-55℃ ~ 105℃	
Humidity	5%-95% RH non-condensing	
Dimensions	L42.8mm*W36.4mm*H3.3mm ±0.5mm	
Warranty	3-years	
Certification	RoHS/CE/FCC/REACH	
Coosial Foatures		

Special Features

External DRAM	•	
AES 256 Encryption	0	
Power Loss Protection (PLP)	0	
Quick Erase	0	
Write Protection	0	
Pseudo SLC	0	
TLC Direct Writing	0	

^{*1.} The read and write values may vary depending on different capacities and testing platforms.

^{*2. ●} Avaiable ○ Unavailable

^{*2.} Customization is available for specific application.

^{*2. ●} Avaiable ○ Unavailable

^{*3.} Customization is available for specific application.



1.8" ZIF

- ♦ Wear Leveling / S.M.A.R.T. / TRIM / Garbage collection
- ♦ Over-provisioning / Secure Erase
- ♦ Native Command Queuing (NCQ) / Bad Block Management
- ♦ Intelligent Power Management
- ◆ Low Power Consumption
- ◆ DRAM-Less



Model	YSZF18-XXX		
Flash Type	MLC		
Interface	ATA/ATAPI-7		
Capacity	8GB~128GB		
Sequential Read (MAX)	Up to 110MB/s		
Sequential Write (MAX)	Up to 70MB/s		
4K Random Read	3240 IOPS		
4K Random Write	568 IOPS		
TBW	128GB/170TB		
Power Consumption (MAX)	1.75W		
MTBF	2 million hours		
Shock	1500G/0.5ms		
Vibration	80Hz~2000Hz/20G		
Operating Voltage	DC 3.3V±5%		
Operating Temperature	0°C ~ 70°C		
Storage Temperature	-40℃ ~ 85℃		
Humidity	5%-95% RH non-condensing		
Dimensions	L71.1mm*W54.1mm*H5.0mm ±0.5mm		
Warranty	3-years		
Certification	RoHS/CE/FCC/REACH		
Special Features			
External DRAM	0		
AES 256 Encryption	0		
Power Loss Protection (PLP)	0		
Quick Erase	0		
Write Protection	0		
Pseudo SLC	0		
TLC Direct Writing	0		

^{*1.} The read and write values may vary depending on different capacities and testing platforms.

Half mSATA/SATA Half Slim

- ♦ Wear Leveling / S.M.A.R.T. / TRIM / Garbage collection
- ♦ Over-provisioning / Secure Erase
- ♦ Native Command Queuing (NCQ) / Bad Block Management
- ♦ Intelligent Power Management
- ♦ Support SATA II 3 Gb/s , SATA I 1.5Gb/s
- ♦ Hot-Swappable
- ♦ Anti-Sulfuration applicable















Model	YSMSH-XXX	YSHS-XXX	YSSHSS2XXXXXXXXXX
Flash Type	TLC	MLC	SLC/MLC
Interface	SATA III/6Gbps	SATA III/6Gbps	SATA III/6Gbps
Capacity	32GB~1TB	32GB~256GB	8GB~256GB
Sequential Read (MAX)	Up to 570MB/s	Up to 500MB/s	Up to 550MB/s
Sequential Write (MAX)	Up to 550MB/s	Up to 380MB/s	Up to 250MB/s
4K Random Read	84100 I OPS	52100 IOPS	20000 IOPS
4K Random Write	15000 I OPS	55500 IOPS	36000 IOPS
TBW	1TB/750TB	256GB/340TB	256GB/340TB
Power Consumption (MAX)	1.03W	2.87W	2.06W
MTBF	2 million hours		
Shock	1500G/0.5ms		
Vibration	80Hz~2000Hz/20G		
Operating Voltage	DC 3.3V±5%	DC 5V±5%	DC 5V±5%
Operating Temperature	0°C ~ 70°C	0°C ~ 70°C	-20°C ~ 75°C / -40°C ~ 85°C
Storage Temperature	-40°C ~ 85°C	-40°C ~ 85°C	-55°C ~ +105°C
Humidity	5%-95% RH non-condensing		
Dimensions	L26.8mm*W29.9mm*H3.5mm ±0.15mm	L54.0mm*W39.0mm*H4.5mm ±0.15mm	L54.0mm*W39.0mm*H4.5mm ±0.15mm
Warranty	3-years		
Certification	RoHS/CE/FCC/REACH		
Special Features			
External DRAM	0	0	0
AES 256 Encryption	0	0	0
Power Loss Protection (PLP)	0	0	0
Quick Erase	0	0	0
Write Protection	0	0	0
Pseudo SLC	0	•	•

^{*1.} The read and write values may vary depending on different capacities and testing platforms.

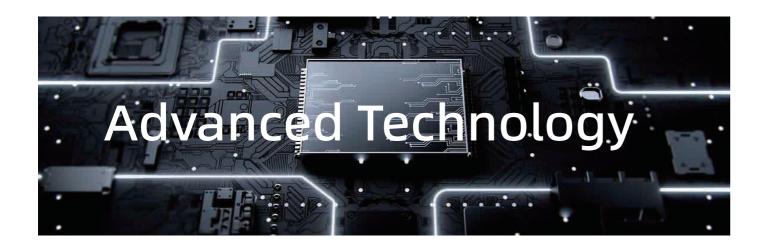
TLC Direct Writing

^{*2. ●} Avaiable ○ Unavailable

^{*3.} Customization is available for specific application.

^{*2. ●} Avaiable ○ Unavailable

^{*3.} Customization is available for specific application.



AES Encryption

Compared with software encryption, hardware AES encryption provides better data protection and efficiency for the applications that process more sensitive data or need to improve the data security.





Power Loss Protection

When the power supply is unexpectedly disconnected, the voltage will begin to drop, When the voltage drops to 3V/4V, SSD will use its own backup capacitor for discharge to maintain the data on the written link.



Write-protection Technology

Write-protection prevents unauthorized data from being written into the hard disk through hardware switches/pins or client software instructions.



The game-changer in solid-state storage technology. With its vertical stacking design, it offers higher capacities, improved endurance, faster performance, and enhanced reliability. As the prevailing solution, 3D NAND sets new standards for data storage, revolutionizing various industries and applications.



Physical Destruction

For some confidential application environments, data on the hard disk drive should be destroyed thoroughly at a particular moment. YANSEN provides physical destruction technology, which uses high voltage and strong current to destroy each Flash and controller IC.





Wide Temperature Range

YANSEN industrial product line strictly choose -40~+85°C wide temperature electronic components to ensure the reliability and stability of the products.



Garbage Collection/TRIM

TRIM technology organizes and optimizes the scattered space in Flash in the non-write/ read state, and organize all good blank blocks for data write in. Garbage Collection plays an important role in improving the durability and performance of SSD.

Industrial Applications

















The 1^{st} Chinese manufacturer to join the SSD Association; Covered industry-grade, wide-temperature grade, and consumer-grade products; Over 70° different types of SSDs with various specifications

Meets the storage requirements of $\,7\,$ major application fields, awarded over $\,180\,$ patents; buyers and agents located in over $\,50\,$ countries and regions worldwide