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Industrial/ Enterprise **Storage Solutions**

C Website

Shenzhen KingSpec Electronics Technology Co., Ltd.

ΥΛΠΕΞΠ®

About KingSpec Electronics

Established in 2007, Shenzhen KingSpec Electronics Technology Co., Ltd. (referred to as King-Spec Electronics), is recognized as a "China High-tech Enterprise" and "China Little Giant Enterprise."

KingSpec Electronics specializes in the research and development of software and hardware, standardized manufacturing, professional technical support services, and selling application solutions in the storage and memory industry.

KingSpec Electronics includes two mainstream application scenarios: YANSEN, an industrial-grade storage brand, specializes in offering embedded applications and

customized storage solutions for industrial and enterprise customers. Feild applications including factory automation, transportation, healthcare, in-vehicle, surveillance, and data centers.

KingSpec is a consumer-grade storage brand that provides solutions for personal consumer market. With a comprehensive range of storage interfaces, our product line includes internal SSDs, portable storage devices, RAM memory modules, and memory cards.

Product quality and customized service stand as our core competencies. We implement ISO 9001 quality management standards and conduct rigorous customized tests to ensure quality. These tests encompass wide temperature, salt spray, shock, drop & vibration, power loss protection, compatibility, constant reading, and writing, etc. All products are certified by FCC, CE, ROHS, REACH, and WEEE to ensure reliability and stability.

After decades of technological advancement and brand development, we have expanded our presence globally, earning great reputation from esteemed strategic partners such as CNPC, THTF, FOXCONN, AAEON, MINDRAY, EET Group and numerous other renowned companies.





Total Area



10_{million+}



Patents





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 ISO 9001 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.



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





| Flash Type Interface | TLC SATA III/6Gbps | TLC | TLC | MLC | | |
|-----------------------------|-----------------------|----------------|----------------|----------------|----------------|----------------|
| Interface | SATA III/6Gbps | | 1 EC | MLC | MLC | MLC |
| | | 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 IOPS | 70300 IOPS | 91000 IOPS | 4110 IOPS | 82000 IOPS | 70050 IOPS |
| 4K Random Write | 81000 IOPS | 70100 IOPS | 24500 IOPS | 355 IOPS | 44590 IOPS | 63300 IOPS |
| 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~2000Hz/20G | | | | | |
| Operating Voltage | | DC 5V±5% | | | | |
| Operating Temperature | | 0°C ~ 70°C | | | | |
| Storage Temperature | | -40°C ~ 85°C | | | | |
| Humidity | | | 5%-95% RH nc | n-condensing | | |
| Dimensions | | L10 | 0.4mm*W70mm | *H7.0mm ±0.15r | nm | |
| Warranty | | | 5-y | ear | | |
| Certification | | | RoHS/CE/F | CC/REACH | | |
| Special Features | | | | | | |
| External DRAM | 0 | ٠ | 0 | 0 | 0 | • |
| AES 256 Encryption | 0 | 0 | 0 | 0 | 0 | • |
| Power Loss Protection (PLP) | 0 | ٠ | 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 |
| TLC Direct Writing | 0 | 0 | • | 0 | 0 | 0 |

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

*3. Customization is available for specific application.

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 | | 5-year | |
| 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 |
| Pseudo SLC | 0 | 0 | 0 |
| TLC Direct Writing | • | • | • |

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

*2. ● Avaiable O Unavailable





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 | YSS25M2XXXXXXXXXXX | 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 IOPS | 12000 IOPS |
| 4K Random Write | 90000 IOPS | 86500 IOPS | 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 | | 5-year | |
| 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. ● Avaiable O 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 | YSS25S2XXXXXXXXX | 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 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 | 5-1 | year | |
| 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 | 0 | 0 | |
| TLC Direct Writing | 0 | 0 | |
| | | | |

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

*2. • Avaiable O Unavailable





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 | 64GB~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°C ~ 85°C | | |
| Humidity | 5%-95% RH non-condensing | | |
| Dimensions | L50.9 | 95mm*W30.0mm*H3.5mm ±0.15 | Smm |
| Warranty | 5-year | | |
| 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.

*2. ● Avaiable O 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
- ♦ 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 | | 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°C ~ 85°C | | |
| Humidity | 5%-95% RH non-condensing | | |
| Dimensions | L50.95mm*W30.0mm*H3.5mm ±0.15mm | | |
| Warranty | 5-year | | |
| 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 |
| | | | |

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

*2. ● Avaiable O Unavailable





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







| Flash Type | TLC | |
|-----------------------------|---------------------------------|----------------|
| | 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 | 5-y | ear |
| 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 |

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

*2. ● Avaiable O 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



| Hash TypeMLCMLCInterfaceSATA III/6GbpsSATA III/6GbpsCapacityGBG8-256GBC128GB-1TBSequential Read (MAX)Up to 550MB/sUp to 750MB/sSequential Write (MAX)Up to 250MB/sUp to 480MB/sSequential Write (MAX)Up to 250MB/sUp to 480MB/sK Random ReadC1790 (DPS68000 (DPSK Random WriteC1790 (DPS72900 (DPS)TRWC201WC201W237WPower Consumption (MAX)C201WC201W237WYibrationC201WC201W237WOperating VoltageC4C4C45555Storage TemperatureOperating VoltageC4C4C45555Storage TemperatureDimensionsC5045575Storage TemperatureSpecial FeaturesStorage TemperatureStorage TemperatureSpecial FeaturesCCCSpecial FeaturesCCCSpecial FeaturesStorage Topological (CRG)CVirte ProtectionCCCSpecial FeaturesCCCWrite ProtectionCCCWrite ProtectionCCCWrite ProtectionCCCSpecial FeaturesCCCSpecial FeaturesCCCSpecial FeaturesCCCSpecial FeaturesCCCSpecial FeaturesCCCSpecial FeaturesCCCSp | Model | YSSM1S2XXXXXXXXXX | YSSM1S3XXXXXXXXX | |
|--|-----------------------------|---------------------------------|------------------|--|
| Capacity8GB-25GGB128GB-1TBSequential Read (MAX)Up to 550MB/sUp to 570MB/sSequential Write (MAX)Up to 250MB/sUp to 480MB/s4K Random Read2149010PS6800010PS4K Random Write2175010PS7290010PSTBW2175010PS7290010PSTBW201W237WOver Consumption (MAX)2.01W2.37WMTBF2.01W2.37WShock3000000000000000000000000000000000000 | Flash Type | SLC/MLC | MLC | |
| Sequential Read (MAX)Up to 550MB/sUp to 570MB/sSequential Write (MAX)Up to 250MB/sUp to 480MB/s4K Random Read21490 IOPS68000 IOPS4K Random Write21750 IOPS72900 IOPS4K Random Write21750 IOPS72900 IOPSTBW2566B/340TB1178/1360TBPower Consumption (MAX)2.01W2.37WMTBF2.01W2.37WShock1500U-SmsVibration80H2~20UH2/20GOperating VoltageC 3.3V±5%Operating Temperature-20°C ~ 75°C / -40°C ~ 85°CStorage Temperature-55% C 105°CHunidityGDimensionsL50.95mm*W30.0mm*H3.5mm ±0.15mmWarrantyGSpecial FeaturesExternal DRAMOAES 256 EncryptionOPower Loss Protection (PLP)OQuick EraseOWrite ProtectionOPoseudo SLCOStorage SLCO | Interface | SATA III/6Gbps | SATA III/6Gbps | |
| 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 2566B/340TB 11B/1360TB Power Consumption (MAX) 2.01W 2.37W MTBF 2.01W 2.37W Shock 0 1500U-0.5ms Vibration 80H2~20UH2/20G 0 Operating Voltage 0.201W 2.37W Operating Temperature -20°C ~ 75°C / -40°C ~ 85°C Storage Temperature -20°C ~ 75°C / -40°C ~ 85°C Hunidity 0 -55°C ~ 105°C Hunidity 0 -55°C ~ 105°C Vitration 150.95mm*W30.0m=*H3.5mm ±0.15mm Warranty 5.9261 -20°C ~ 75°C / FACH Special Features - - External DRAM 0 - AS2 56 Encryption 0 - Power Loss Protection (PLP) 0 - Quick Erase 0 0 Write Protection 0 -< | Capacity | 8GB~256GB | 128GB~1TB | |
| 4K Random Read21490 IOPS68000 IOPS4K Random Write21750 IOPS72900 IOPSTBW256GB/340TBTTB/1360TBPower Consumption (MAX)2.01W2.37WMTBF2.01W2.37WMTBF2 million hoursShock1500 J .5msVibration80Hz~200 UHz/20GOperating Voltage0.1500 J .5msOperating Temperature-20°C ~75°C / 40°C ~85°CStorage Temperature-20°C ~75°C / 15°CHunidity0.150.95m Mt NormDimensions150.95m Mt NormWarranty0.150.95m Mt NormSpecial Features-External DRAM0AES 256 Encryption0Over Loss Protection (PLP)0Ouck Erase0Write Protection0Posedo SLC0Storage SL0Storage Storage0Storage Storage0Storage Storage0Storage Storage0Storage Temperature0Storage Temperature0 <td< td=""><td>Sequential Read (MAX)</td><td>Up to 550MB/s</td><td>Up to 570MB/s</td></td<> | Sequential Read (MAX) | Up to 550MB/s | Up to 570MB/s | |
| 4K Random Write21750 IOPS72900 IOPSTBW21750 IOPSTIB/1360TBPower Consumption (MAX)2.01W2.37WMTBF0.12.37WMTBF0.12.37WShock0.11.500 / .5msVibration0.10.01KOperating Voltage0.10.01K / .20°C ~ 85°COperating Temperature-20°C ~ 75°C / .40°C ~ 85°CStorage Temperature-55°CHunidity0.1-55°CMindity0.1-51°CVibration0.150.95mm*W30.00000000000000000000000000000000000 | Sequential Write (MAX) | Up to 250MB/s | Up to 480MB/s | |
| TBW266GB/340TBTIB/1360TBPower Consumption (MAX)2.01W2.37WMTBF2.01W2.37WMTBFC2.37WShockC1500ShockC3.000Operation80Hz~202.000Operating VoltageC2.00°C ~ 75°C / 40°C ~ 85°COperating Temperature-20°C ~ 75°C / 40°C ~ 85°C ~ 105°CHunidityC55°C ~ 105°CHunidityC55°C ~ 105°CDimensionsC55°C ~ 105°CVarrantyC55°C ~ 105°CSpecial FeaturesC50°D mm *W30.00 mm ±0.15mm ±0.15mm ±0.15mmSpecial FeaturesCSCExternal DRAMOOAES 256 EncryptionOOPower Loss Protection (PLP)OOOuck EraseOOOuck EraseOOVitte ProtectionOOPseudo SLCSSPseudo SLCSS | 4K Random Read | 21490 IOPS | 68000 IOPS | |
| Power Consumption (MAX)2.01W2.37WMTBF2.01W2.37WMTBF2 millior hoursShock1500G .5msVibration6000 .5msOperating Voltage0.0100 .5msOperating Temperature-20°C ~ 75°C / -40°C ~ 85°CStorage Temperature-55°C - 105°CHumidity6000 .5ms #0.1500 mt *13.5mm ±0.15mmDimensions1000 .5ms ±13.5mm ±0.15mmWarranty0.05 .5ms ±0.15mm ±0.15mmSpecial Features5400 .5ms ±0.15mm ±0.15mmExternal DRAM00.000Power Loss Protection (PLP)0.00.000Ouck Erase00.000Write Protection0.00.000Pseudo SLC0.00.000Pseudo SLC0.00.000Pseudo SLC0.00.000Pseudo SLC0.00.000 | 4K Random Write | 21750 IOPS | 72900 IOPS | |
| MTBF2 millio hoursShock1500G/0.5msVibration80Hz~2000Hz/20GOperating Voltage0C 3.3V±5%Operating Temperature-20°C ~ 75°C / -40°C ~ 85°CStorage Temperature-20°C ~ 75°C / -40°C ~ 85°CHumidity0.5%-95% RH non- condensingDimensionsL50.95mm*W30.0mm*H3.5mm ±0.15mmWarranty0.Special FeaturesExternal DRAM0AES 256 Encryption0Power Loss Protection (PLP)0Quick Erase0Write Protection0Pseudo SLC0External DRAM0On0Outs Erase0Outs Erase <td>TBW</td> <td>256GB/340TB</td> <td>1TB/1360TB</td> | TBW | 256GB/340TB | 1TB/1360TB | |
| Shock 1500 Jobs Yibration 80H2×200 Hz/20G Operating Voltage C 3.3V±5% Operating Temperature -20°C ~ 75°C / -40°C ~ 85°C Storage Temperature -20°C ~ 75°C / -40°C ~ 85°C Humidity G 3.3V±5% Dimensions C 3.3V±5% Warranty S-20°C ~ 75°C / -40°C ~ 85°C Special Features S External DRAM G G G Power Loss Protection (PLP) O G Quick Erase G G Write Protection G G Pseudo SLC G G | Power Consumption (MAX) | 2.01W | 2.37W | |
| VibrationBOUT ControlVibration80HZ~200HZ/20GOperating VoltageDC 3.3V±5%Operating Temperature-20°C ~ 75°C / -40°C ~ 85°CStorage Temperature-20°C ~ 75°C / -40°C ~ 85°CHumidityGOUT ControlDimensionsS%-95% RH noncondensingWarrantyGOUT ControlSpecial FeaturesSymmetricExternal DRAMOPower Loss Protection (PLP)OQuick EraseOWrite ProtectionOSpecial SLCOStorage TemperatureOStorage TemperatureOStorage TemperatureOStorage TemperatureOPower Loss Protection (PLP)OOut & EraseOStorage TemperatureOStorage TemperatureO </td <td>MTBF</td> <td>2 millio</td> <td>n hours</td> | MTBF | 2 millio | n hours | |
| Operating VoltageDC 3.3V±5%Operating Temperature -20° C $\sim 75^\circ$ C / -40° C $\sim 85^\circ$ CStorage Temperature -55° C $\sim 105^\circ$ CHumidity $5^{\circ}-55^\circ$ R H $^{\circ}-condensing$ Dimensions $C 5.95^\circ$ R H $^{\circ}-condensing$ Varranty 5^{-y} Special Features $C - 55^\circ$ C / $^{\circ}$ C / $^{\circ}$ C / $^{\circ}$ C / $^{\circ}$ CExternal DRAM 0 Power Loss Protection (PLP) 0 Quick Erase 0 Quick Erase 0 Pseudo SLC 0 Pseudo SLC 0 Condomination 0 <td< td=""><td>Shock</td><td colspan="2">1500G/0.5ms</td></td<> | Shock | 1500G/0.5ms | | |
| Operating Temperature-20°C ~ 75°C / -40°C ~ 85°CStorage Temperature-55°C ~ 105°CHumidityGDimensionsL50.95mm*W30.0mm*H3.5mm ±0.15mmWarrantyS-yearCertificationROHS/CE/FC/REACHSpecial FeaturesExternal DRAMOPower Loss Protection (PLP)OQuick EraseOQuick EraseOPseudo SLCOPseudo SLCOOLI ConstructionOOLI ConstructionO <t< td=""><td>Vibration</td><td colspan="2">80Hz~2000Hz/20G</td></t<> | Vibration | 80Hz~2000Hz/20G | | |
| Storage Temperature -55℃ - 105℃ Humidity 5%-95% RH nor-condensing Dimensions L50.95mm*W30.0mm*H3.5mm ±0.15mm Warranty 5-yer Certification Systemation Special Features - External DRAM 0 0 Power Loss Protection (PLP) 0 0 Quick Erase 0 0 Write Protection 0 0 Pseudo SLC 0 0 | Operating Voltage | DC 3.3V±5% | | |
| HumiditySin content of the second ensingHumidityS%-95% RH non-condensingDimensionsL50.95mm*W30.0mm*H3.5mm ±0.15mmWarrantyS-yearCertificationS-yearSpecial FeaturesSecond ROHS/CE/FCC/REACHExternal DRAMOAES 256 EncryptionOPower Loss Protection (PLP)OQuick EraseOWrite ProtectionOPseudo SLCEach and an | Operating Temperature | -20°C ~ 75°C / -40°C ~ 85°C | | |
| DimensionsL50.95mm*W30.0mm*H3.5mm ±0.15mmWarranty5-yearCertificationS-yearSpecial FeaturesCertificationExternal DRAM0AES 256 Encryption0Power Loss Protection (PLP)0Quick Erase0Write Protection0Pseudo SLC0 | Storage Temperature | -55℃ ~ 105℃ | | |
| Warranty5-yearCertificationSocial FeaturesExternal DRAMOAES 256 EncryptionOPower Loss Protection (PLP)OQuick EraseOWrite ProtectionOPseudo SLCO | Humidity | 5%-95% RH non-condensing | | |
| CertificationRoHS/CE/CREACHSpecial FeaturesExternal DRAMOAES 256 EncryptionOPower Loss Protection (PLP)OQuick EraseOWrite ProtectionOPseudo SLCO | Dimensions | L50.95mm*W30.0mm*H3.5mm ±0.15mm | | |
| Special FeaturesExternal DRAMOAES 256 EncryptionOPower Loss Protection (PLP)OQuick EraseOWrite ProtectionOPseudo SLCO | Warranty | 5-y | ear | |
| External DRAMOAES 256 EncryptionOPower Loss Protection (PLP)OQuick EraseOWrite ProtectionOPseudo SLCO | Certification | RoHS/CE/F | CC/REACH | |
| AES 256 EncryptionOPower Loss Protection (PLP)OQuick EraseOWrite ProtectionOPseudo SLC● | Special Features | | | |
| Power Loss Protection (PLP)OQuick EraseOOWrite ProtectionOOPseudo SLCOO | External DRAM | 0 | • | |
| Quick EraseOWrite ProtectionOPseudo SLCImage: Subscript of the | AES 256 Encryption | 0 | 0 | |
| Write Protection O O Pseudo SLC • • | Power Loss Protection (PLP) | 0 | • | |
| Pseudo SLC • | Quick Erase | 0 | 0 | |
| | Write Protection | 0 | 0 | |
| TLC Direct Writing O O | Pseudo SLC | • | • | |
| | TLC Direct Writing | 0 | 0 | |

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

*2. ● Avaiable O Unavailable





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°C ~ 85°C | | |
| 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 | | 5-year | |
| 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 |
| | | | |

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

*2. • Avaiable O 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-M530 2280 | YSITXXX-M530 2242 | YSITXXX-S320 2242 | |
|-----------------------------|--------------------------------|--------------------------------|--------------------------------|--|
| | | | MIC | |
| Flash Type | | TLC | | |
| 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 IOPS | |
| 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°C ~ 85°C | | | |
| 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 | | 5-year | | |
| 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 O Unavailable







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
- \blacklozenge Low Power Consumption
- ♦ Hot-Swappable
- DRAM-Less
- ♦ Industrial Wide Temperature





| Model | YSSN3P2XXXXXXXX 2280 |
|-----------------------------|--------------------------------|
| Flash Type | TLC |
| Interface | SATA III/6Gbps |
| Capacity | 256GB~2TB |
| 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 |
| Power Consumption (MAX) | 0.69W |
| 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*H2.2mm ±0.15mm |
| Warranty | 5-year |
| 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.

*2. • Avaiable O Unavailable

*3. Customization is available for specific application.

- ♦ 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 | Y55N152XXXXXXX 2242 |
|-------------------------|--------------------------------|
| Flash Type | |
| 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 | 5-year |
| 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 | |

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

*2. • Avaiable O Unavailable





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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 |
| Interface | PCIe Gen3 x 4, NVMe 1.4 | PCIe Gen3 x 4, NVMe 1.4 | PCIe Gen3 x2, NVMe 1.4 |
| 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 | 380000 IOPS | 420000 IOPS | 96720 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 | |
| Vibration | 80Hz~2000Hz/20G | | |
| Operating Voltage | DC 3.3V±5% | | |
| Operating Temperature | 0°C ~ 70°C | | |
| Storage Temperature | -40°C ~ 85°C | | |
| Humidity | 5%-95% RH non-condensing | | |
| Dimensions | L80.0mm*W22.0mm*H2.1mm ±0.1mm | L42.0mm*W22.0mm*H3.5mm ±0.15mm | L42.0mm*W22.0mm*H3.2mm ±0.1mm |
| Warranty | | 5-year | |
| 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 | 0 |
| Pseudo SLC | 0 | 0 | 0 |
| TLC Direct Writing | • | • | • |

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

*2. ● Avaiable O Unavailable

*3. Customization is available for specific application.

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 | YSNN5M3XXXXXXXX 2280 |
|-------------------------|--------------------------------|
| Flash Type | TLC |
| Interface | PCIe 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 | 5-year |
| Certification | RoHS/CE/FCC/REACH |
| Special Features | |

| External DRAMAES 256 EncryptionPower Loss Protection (PLP)Quick EraseWrite ProtectionPseudo SLCTLC Direct Writing | speciari catales |
|---|-----------------------------|
| Power Loss Protection (PLP) Quick Erase Write Protection Pseudo SLC | External DRAM |
| Quick Erase Write Protection Pseudo SLC | AES 256 Encryption |
| Write Protection Pseudo SLC | Power Loss Protection (PLP) |
| Pseudo SLC | Quick Erase |
| | Write Protection |
| TLC Direct Writing | Pseudo SLC |
| | TLC Direct Writing |

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

*2. ● Avaiable O Unavailable





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| • | | | |
| 0 | | | |
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| • | | | |

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 millio | on hours | |
| Shock | | 1500G | /0.5ms | |
| Vibration | | 80Hz~20 | 00Hz/20G | |
| Operating Voltage | | DC 5 | V±5% | |
| Operating Temperature | 0°C ~ 70°C | | | |
| Storage Temperature | -40℃ ~ 85℃ | | | |
| Humidity | | 5%-95% RH no | on-condensing | |
| Dimensions | L48.0mm*W32.0mm*H4.0mm ±0.5mm L59.4mm*W27.45mm*H8.36mm ±0.5mm | | | m*H8.36mm ±0.5mm |
| Warranty | | 5-) | /ear | |
| Certification | | RoHS/CE/ | 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 |

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

*2. • Avaiable O Unavailable

*3. Customization is available for specific application.

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 |
|-------------------------|
| Flash Type |
| Interface |
| Capacity |
| Sequential Read (MAX) |
| Sequential Write (MAX) |
| 4K Random Read |
| 4K Random Write |
| TBW |
| Power Consumption (MAX) |
| MTBF |
| Shock |
| Vibration |
| Operating Voltage |
| Operating Temperature |
| Storage Temperature |
| Humidity |
| Dimensions |
| Warranty |
| Certification |
| Special Features |
| |

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

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

*2. ● Avaiable O Unavailable

*3. Customization is available for specific application.





YSUUDH1XXXXXXXXXX

SLC/MLC USB Rev.2.0(480Mbps) 8GB~64GB Up to 35MB/s Up to 25MB/s 1700 IOPS 1100 IOPS 64GB/85TB 0.68W 2 million hours 1500G/0.5ms 80Hz~2000Hz/20G DC 5V±5% -20°C ~ 75°C / -40°C ~ 85°C -55°C ~ +105°C %-95% RH non-condensing nm*W26.6mm*H9.6mm ±0.15mm 5-year

RoHS/CE/FCC/REACH

| 0 | |
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| 0 | |
| ٠ | |
| 0 | |
| 0 | |

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 | | |
| Storage Temperature | -40°C ~ 85°C | | |
| Humidity | 5%-95% RH non-condensing | | |
| Dimensions | L33.6mm*W30.6mm*H4.5mm ±0.15mm | L47.8mm*W25.0mm*H9.3mm ±0.5mm | L47.8mm*W25.0mm*H9.3mm ±0.5mm |
| Warranty | | 5-year | |
| 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 | | 0 |
| Quick Erase | 0 | 0 | 0 |
| Write Protection | 0 | • | • |
| Pseudo SLC | 0 | • | 0 |
| TLC Direct Writing | 0 | 0 | 0 |

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

*2. • Avaiable O Unavailable

*3. Customization is available for specific application.

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 millio | n 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 no | n-condensing | |
| Dimensions | L44.0mm*W29.87mm*H10.5mm ±0.15mm | L39.5mm*W25.0mm*H9.3mm ±0.15mm | |
| Warranty | 5-ye | ear | |
| 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 | • | • | |
| Pseudo SLC | • | • | |
| TLC Direct Writing | 0 | 0 | |

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

*2. • Avaiable O Unavailable







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

Ē

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 | 80Hz~2000Hz/20G | | |
| Operating Voltage | DC 5V±5% | | |
| Operating Temperature | 0°C ~ 70°C | | |
| Storage Temperature | -40°C ~ 85°C | | |
| Humidity | 5%-95% RH non-condensing | | |
| Dimensions | L100.2mm*W69.8mm*H9.0mm ±0.5mm | | |
| Warranty | 5-year | | |
| Certification | RoHS/CE/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 | |

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

*2. • Avaiable O Unavailable

*3. Customization is available for specific application.

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 | YSP25S1XXXXXXXXX | |
|-----------------------------|-------------------------------|--|
| 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 | 5-year | |
| 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.

*2. • Avaiable O Unavailable





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 IOPS |
| TBW | 64GB/85TB | 64GB/2840TB | 128GB/170TB | 64GB/2840TB |
| Power Consumption (MAX) | 0.99W | 1.15W | 0.99W | 1.15W |
| 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°C ~ 85°C | | | |
| Humidity | 5%-95% RH non-condensing | | | |
| Dimensions | L42.8mm*W36.4mm*H3.3mm ±0.5mm | | | |
| Warranty | 5-year | | | |
| Certification | RoHS/CE/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 |
| | | | | |

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

*2. ● Avaiable O 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
- ♦ Industrial Wide Temperature



| Model | YSPCFS1XXXXXXXXX | |
|-----------------------------|-------------------------------|--|
| Flash Type | SLC/MLC | |
| Interface | ATA/ATAPI-7 | |
| Capacity | 8GB~128GB | |
| Sequential Read (MAX) | Up to 80MB/s | |
| Sequential Write (MAX) | Up to 50MB/s | |
| 4K Random Read | 3120 IOPS | |
| 4K Random Write | 474 IOPS | |
| TBW | 128GB/170TB | |
| Power Consumption (MAX) | 0.99W | |
| MTBF | 2 million hours | |
| Shock | 1500G/0.5ms | |
| Vibration | 80Hz~2000Hz/20G | |
| Operating Voltage | DC 3.3V±5% | |
| Operating Temperature | L42.8mm*W36.4mm*H3.3mm ±0.5mm | |
| Storage Temperature | -20°C ~ 75°C / -40°C ~ 85°C | |
| Humidity | -55°C ~ 105°C | |
| Dimensions | 5%-95% RH non-condensing | |
| Warranty | 5-year | |
| 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.

*2. ● Avaiable O Unavailable





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
- \blacklozenge 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 | n hours | |
| Shock | 1500G/ | 0.5ms | |
| Vibration | 80Hz~2000Hz/20G | | |
| Operating Voltage | DC 3.3V±5% | | |
| Operating Temperature | 0°C ~ 70°C | | |
| Storage Temperature | -40°C ~ 85°C | | |
| Humidity | 5%-95% RH non-condensing | | |
| Dimensions | L42.8mm*W36.4mm*H3.3mm ±0.5mm | | |
| Warranty | 5-year | | |
| Certification | RoHS/CE/FCC/REACH | | |
| Special Features | | | |
| 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.

*2. • Avaiable O Unavailable

*2. 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
- ♦ Industrial Wide Temperature



| Model | YSSCSS5XXXXXXXX |
|-----------------------------|-------------------------------|
| 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 | 5-year |
| Certification | RoHS/CE/FCC/REACH |
| Special Features | |
| External DRAM | • |
| AES 256 Encryption | 0 |
| Power Loss Protection (PLP) | 0 |

Write ProtectionPseudo SLCTLC Direct Writing

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

*2. • Avaiable O Unavailable

Quick Erase





| • | | | |
|---|--|--|--|
| 0 | | | |
| 0 | | | |
| 0 | | | |
| 0 | | | |
| 0 | | | |
| 0 | | | |

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°C ~ 85°C |
| Humidity | 5%-95% RH non-condensing |
| Dimensions | L71.1mm*W54.1mm*H5.0mm ±0.5mm |
| Warranty | 5-year |
| 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.

*2. ● Avaiable O Unavailable

*3. Customization is available for specific application.

- 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 IOPS | 52100 IOPS | 20000 IOPS |
| 4K Random Write | 15000 IOPS | 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 | | 5-year | |
| 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 | • | • |
| TLC Direct Writing | • | 0 | 0 |

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

*2. ● Avaiable O Unavailable





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

DDR3 SODIMM

Automation









| Model | YSXXXXD3NXXXXGN |
|-----------------------|-----------------|
| Memory Technology | DDR3 |
| Frequency | 1333/1600 |
| Capacity | 2GB/4GB/8GB |
| Voltage | 1.35V |
| Pin Count | 204-Pin |
| Operating Temperature | 0°C ~ +70°C |
| Storage Temperature | -20°C ~ +100°C |
| Warranty | 3-year |

DDR4 SODIMM



Industrial PC ΔΙοΤ

| Model |
|--|
| Memory Technology |
| Frequency |
| Capacity |
| Voltage |
| Pin Count |
| Operating Temperature |
| Storage Temperature |
| Warranty |
| Value-added Technology |
| * Customization is available for specific application. |

DDR4 SODIMM

Automation Industrial PC AloT



| Model | YSXXXXD4NXXXXGN |
|-----------------------|-----------------|
| Memory Technology | DDR4 |
| Frequency | 2666 |
| Capacity | 4GB/8GB/16GB |
| Voltage | 1.2V |
| Pin Count | 260-Pin |
| Operating Temperature | 0°C ~ +70°C |
| Storage Temperature | -20°C ~ +100°C |
| Warranty | 3-year |

DDR4 UDIMM



| Model |
|------------------------|
| Memory Technology |
| Frequency |
| Capacity |
| Voltage |
| Pin Count |
| Operating Temperature |
| Storage Temperature |
| Warranty |
| Value-added Technology |





| YSXXXXD4NXXXXXI | |
|------------------|--|
| DDR4 | |
| 2133/2666 | |
| 4GB/8GB/16GB | |
| 1.2V | |
| 260-PIN | |
| -20°C ~ +85°C | |
| -20°C ~ +100°C | |
| 3-year | |
| Wide Temperature | |



| YSXXXXD4PXXXXXXI | |
|------------------|--|
| DDR4 | |
| 2666/3000 | |
| 4GB/8GB/16GB | |
| 1.2V/1.35V | |
| 288-Pin | |
| -20°C ~ +85°C | |
| -20°C ~ +100°C | |
| 3-year | |
| Wide Temperature | |



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.

3D NAND

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















Server & Cloud Computing





Headquartered in Shenzhen, China, KingSpec Electronics operates globally, with a market presence spanning over 100 countries across Europe, North America, Southeast Asia, the Middle East, East Asia, and other market regions. Company's key locations: the United Kingdom, the United States, Brazil, Russia, Japan, Dubai, etc.

We are steadily achieving comprehensive global coverage. Our mission is to provide convenient, high-quality services to customers worldwide.