

SSD3K0E Series

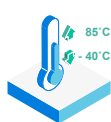
2.5" SATA III SSD



SLC Cache



AES 256



Wide Temperature



TLC



Features

- 2.5" standard form factor with Serial ATA standard interface connector
- Serial ATA revision 3.1 standard with 6.0 Gb/s transfer rate
- ATA/ATAPI-8 standard and ACS-3 command protocol
- Native Command Queuing up to 32 commands
- Supports 28/48 bit LBA mode command
- Garbage collection and TRIM Data Set Management command
- Global wear-leveling algorithm balances program/erase cycles
- Early weak block retirement
- Supports SMART feature command set
- Supports DEVSLP for advanced power saving
- Built-in dynamic temperature sensor with Thermal Throttling
- AES 256 bit Hardware Self Encryption (Optional)
- Supports in-field seamless FW update tool to keep the SSD's original data (Optional)
- Conformal Coating - Standard IPC A-610E (Optional)

Ordering Information

Capacity	Temp.	P/N
64GB	-20°C~75°C	SP064GISSD3K5EV0
64GB	-40°C~85°C	SP064GISSD3K5EW0
128GB	-20°C~75°C	SP128GISSD3K5EV0
128GB	-40°C~85°C	SP128GISSD3K5EW0
256GB	-20°C~75°C	SP256GISSD3K5EV0
256GB	-40°C~85°C	SP256GISSD3K5EW0
512GB	-20°C~75°C	SP512GISSD3K5EV0
512GB	-40°C~85°C	SP512GISSD3K5EW0
1TB	-20°C~75°C	SP010TISSD3K5EV0
1TB	-40°C~85°C	SP010TISSD3K5EW0
2TB	-20°C~75°C	SP020TISSD3K5EV0
2TB	-40°C~85°C	SP020TISSD3K5EW0

Specifications

Overview	Interface	SATA III/6.0Gbps
	Flash Technology	3D TLC
	Capacity	64GB~2TB
	Form Factor	2.5 inch
	Dimensions	100.4 x 69.9 x 6.8 mm
	External DRAM Buffer	No
Performance	Seq. Performance Read (max.)	540 MB/s
	Seq. Performance Write (max.)	520 MB/s
	Random 4K Read (IOPS max.)	29,000
	Random 4K Write (IOPS max.)	85,000
	MTBF @ 25°C	>3,000,000 hrs
	P/E Cycle	3,000
	TBW	2TB: 4,419 TB / 1TB: 2,209 TB / 512GB: 1,105 TB / 256GB: 551 TB / 128GB: 276 TB / 64GB: 139 TB
Operating Environment	Operating Temperature	-40°C~85°C / -20°C~75°C
	Storage Temperature	-55°C~95°C
	Operating Humidity	10%~95% (30°C Max. Wet Bulb Temp)
	Vibration	20G, 10~2000Hz
	Drop	75cm
	Shock	1,500G@0.5ms
Power Consumption	Power Requirement	DC 5.0V
	Power Operation (max.)	340 mA
	Power Consumption (idle)	85 mA
Key Features	Advanced Power Shield	●
	AES-256	●
	Thermal Throttling	●
	S.M.A.R.T.	●
	DAP (Debug Access Port)	●
	FWxpress	●
Optional Feature	DEVSLP	●
Warranty	Warranty	3 years within TBW