

HERMES Series

Industrial 1.8" Slim Lite SATA II SLC SSD



Product features

- SLC - NAND type flash technology
- 1.8" Slim Lite SATA II SSD compatible with JEDEC Standard: MO-297A physical specification
- Compliant with SATA 1.0a and SATA 2.6 specification
- Maximum sequential read speed 106.3 MB/sec
- Maximum sequential write speed 100.4 MB/sec
- Capacity from 4GB up to 32GB

Product specifications

Compatibility	SATA 1.0a and SATA 2.6 specification compliance	Power consumption	Power requirement $\pm 5V \pm 10\%$
Form-factor	1.8" Slim Lite SATA II SSD compatible with JEDEC Standard: MO-297A specification	Reading mode	230 mA (Max.)
Flash technology	SLC-NAND type flash based	Writing mode	270 mA (Max.)
Host Interface	Standard SATA 7 pins (data) + 15 pins (power)	Idle mode	160 mA (Max.)
Performance		Reliability	
Data transfer rate	Serial ATA Gen-I (1.5Gbits) and Gen-II (3.0Gbits)	Wear-leveling	Static wear-leveling algorithms
Sequential read	106.3 MB/sec (Max.)	MTBF	> 3,000,000 hours
Sequential write	100.4 MB/sec (Max.)	ECC	8 bits or 15 bits per 512 bytes block
Random access time	0.2 ms	Endurance	> 2,000,000 cycles
Environmental specification		Data retention	10 years
Operating temp.	STD. 0°C ~ 70°C / IND. -40°C ~ +85°C	Physical specification	
Non-operating temp.	STD. -20°C ~ +80°C / IND. -50°C ~ +95°C	Weight (max.)	15 g \pm 2 g / 0.53 oz.
Humidity	10% ~ 95% non-condensing	Dimension(W x L x H)	54.00 x 40.10 x 5.45 (mm)
Vibration	15 G compliance to MIL-STD-810F	Conformal coating	Option for special request
Shock	1,500 G compliance to MIL-STD-810F	Warranty	
Altitude	70,000 feet	Standard grade	3 years
		Industrial grade	5 years

Operating temperature supports Standard grade 0°C ~ 70°C and Industrial grade -40°C ~ +85°C

Part number list - Industrial 1.8" Slim Lite SATA II SLC SSD

Product Picture	Capacity	0°C ~ 70°C	-40°C ~ +85°C
	4GB	SB8SJ004G-JACSC	WB8SJ004G-JAISI
	8GB	SB8SJ008G-JACSC	WB8SJ008G-JAISI
	16GB	SB8SJ016G-JACSC	WB8SJ016G-JAISI
	32GB	SB8SJ032G-JACSC	WB8SJ032G-JAISI

Part number decoder



Example



X1 Grade

S : Standard grade operating temp. 0°C ~ 70°C

W : Industrial grade operating temp. -40°C ~ +85°C

X12 Controller version

A,B,C,.....

X2 The material of casing

B : Bare (without casing)

X13 Controller grade

C : Commercial grade

I : Industrial grade

X3 X4 X5 Product category

8SJ : 1.8" Slim Lite SATA II SSD

X14 Flash IC

S : Samsung SLC-NAND flash IC

X6 X7 X8 X9 Capacity

004G : 4GB 016G : 16GB

008G : 8GB 032G : 32GB

X15 Flash IC grade

C : Commercial grade

I : Industrial grade

X11 Controller

J : JMicon (HERMES Series)

C Reserved for specific requirement

C : Conformal-coating