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
Form-factor	1.8" Slim Lite SATA II SSD compatible with JEDEC Standard: MO-297A specification
Flash technology	SLC-NAND type flash based
Host Interface	Standard SATA 7 pins (data) + 15 pins (power)
Performance	
Data transfer rate	Serial ATA Gen-I (1.5Gbits) and Gen-II (3.0Gbits)
Sequential read	106.3 MB/sec (Max.)
Sequential write	100.4 MB/sec (Max.)
Random access time	0.2 ms
Environmental specification	
Operating temp.	STD. 0˚C ~ 70˚C / IND. -40˚C ~ +85˚C
Non-operating temp.	STD. -20˚C ~ +80˚C / IND. -50˚C ~ +95˚C
Humidity	10% ~ 95% non-condensing
Vibration	15 G compliance to MIL-STD-810F
Shock	1,500 G compliance to MIL-STD-810F
Altitude	70,000 feet
Power consumption	
Power requirement	+5V ± 10%
Reading mode	230 mA (Max.)
Writing mode	270 mA (Max.)
Idle mode	160 mA (Max.)
Reliability	
Wear-leveling	Static wear-leveling algorithms
MTBF	> 3,000,000 hours
ECC	8 bits or 15 bits per 512 bytes block
Endurance	> 2,000,000 cycles
Data retention	10 years
Physical specification	
Weight (max.)	15 g ± 2 g / 0.53 oz.
Dimension(W x L x H)	54.00 x 39.00 x 5.45 (mm)
Conformal coating	Option for special request
Warranty	
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

X1	X2	X3	X4	X5	X6	X7	X8	X9	—	X11	X12	X13	X14	X15	—	C			

Example

S	B	8	S	J	0	3	2	G	—	J	A	C	S	C					

X1 Grade

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

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

X2 The material of casing

B : Bare (without casing)

X3 X4 X5 Product category

8SJ : 1.8" Slim Lite SATA II SSD

X6 X7 X8 X9 Capacity

004G : 4GB **016G :** 16GB

008G : 8GB **032G :** 32GB

X11 Controller

J : JMicron (HERMES Series)

X12 Controller version

A,B,C.....

X13 Controller grade

C : Commercial grade

I : Industrial grade

X14 Flash IC

S : Samsung SLC-NAND flash IC

X15 Flash IC grade

C : Commercial grade

I : Industrial grade

C Reserved for specific requirement

C : Conformal-coating