

HERMES Series

1.8" Slim Lite SATA II MLC SSD



Product features

- ❖ MLC - 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 97.9 MB/sec
- ❖ Maximum sequential write speed 54.5 MB/sec
- ❖ Capacity from 4GB up to 64GB

Product specifications

Compatibility	❖ SATA 1.0a and SATA 2.6 specification compliance	Power consumption	Power requirement ❖ +5V ± 10%
	❖ 1.8" Slim Lite SATA II SSD compatible with JEDEC Standard: MO-297A specification	Reading mode	❖ 220 mA (Max.)
		Writing mode	❖ 290 mA (Max.)
Flash technology	❖ MLC-NAND type flash based	Idle mode	❖ 150 mA (Max.)
Host Interface	❖ Standard SATA 7 pins (data) + 15 pins (power)	Reliability	Wear-leveling ❖ Static wear-leveling algorithms
		ECC	❖ 8 bits or 15 bits per 512bytes block
Performance		Physical specification	Weight (max.) ❖ 15 g ± 2 g /0.53 oz.
Data transfer rate	❖ Serial ATA Gen-I (1.5 Gbits) and Gen-II (3.0 Gbits)	Dimension(W x L x H)	❖ 54.00 x 40.10 x 5.45 (mm)
Sequential read	❖ 97.9 MB/sec (Max.)	Conformal coating	❖ Option for wide temperature
Sequential write	❖ 54.5 MB/sec (Max.)	Warranty	❖ 1 year
Random access time	❖ 0.2 ms		
Environmental specification			
Operating temp.	❖ STD. 0°C ~ 70°C / WID. -40°C ~ +85°C		
Non-operating temp.	❖ STD. -20°C ~ +80°C / WID. -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		

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

Part number list - 1.8" Slim Lite SATA II MLC SSD

Product Picture	Capacity	0°C ~ 70°C	-40°C ~ +85°C
	4GB	SB8SJ004G-JACMC	WB8SJ004G-JACMC-C
	8GB	SB8SJ008G-JACMC	WB8SJ008G-JACMC-C
	16GB	SB8SJ016G-JACMC	WB8SJ016G-JACMC-C
	32GB	SB8SJ032G-JACMC	WB8SJ032G-JACMC-C
	64GB	SB8SJ064G-JACMC	WB8SJ064G-JACMC-C

Remarks:

Wide temperature -40°C ~ +85°C with special conformal coating treatment on PCBA.

Part number decoder

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

W	B	8	S	J	0	6	4	G	—	J	A	C	M	C	—	C			
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X1 ❖ Grade

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

W : Wide temperature operating temp. -40°C ~ +85°C

X12 ❖ Controller version

A,B,C,....

X13 ❖ Controller grade

C : Commercial grade

X2 ❖ The material of casing

B : Bare (without casing)

X14 ❖ Flash IC

M : MLC-NAND flash IC

X3 X4 X5 ❖ Product category

8SJ : 1.8" Slim Lite SATA II SSD

X15 ❖ Flash IC grade

C : Commercial grade

X6 X7 X8 X9 ❖ Capacity

004G : 4GB **032G** : 32GB

008G : 8GB **064G** : 64GB

016G : 16GB

C ❖ Reserved for specific requirement

C : Conformal-coating

X11 ❖ Controller

J : JMicron (HERMES Series)