

HERMES Series

SLC Industrial 1.8" Slim Lite SATA II SSD JEDEC MO-297A



Product features

- ❖ SLC - NAND type flash technology
- ❖ Compliant with SATA 1.0a and SATA 2.6 specification
- ❖ Compatible with JEDEC MO-297A physical specification
- ❖ Maximum sequential read speed 106.3MB/sec
- ❖ Maximum sequential write speed 100.4MB/sec
- ❖ Supports write protect function by switch
- ❖ Capacity from 4GB up to 32GB

Product specifications

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

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

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

Product Picture	Capacity	0° C ~ 70° C	-40° C ~ +85° C
	4GB	SR8SJ004G-JACSC(/C)	WR8SJ004G-JAIS(/C)
	8GB	SR8SJ008G-JACSC(/C)	WR8SJ008G-JAIS(/C)
	16GB	SR8SJ016G-JACSC(/C)	WR8SJ016G-JAIS(/C)
	32GB	SR8SJ032G-JACSC(/C)	WR8SJ032G-JAIS(/C)

Part number decoder



- 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 032G : 32GB
008G : 8GB
016G : 16GB
- X11** ❖ Controller
J : JMicron (HERMES Series)
- X12** ❖ Controller version
A,B,C,.....
- X13** ❖ Controller grade
C : Commercial 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

CF Industrial CompactFlash Card

CFast Industrial CFast Card

ATA Industrial PCMCIA ATA Card

MIF Industrial micro IDE Flash Module

MSF Industrial micro SATA Flash Module

MUM Industrial micro USB Flash Module

MPM Industrial mini PCI-e Flash Module

MSM Industrial mini SATA Flash Module

SSD Industrial Solid State Disk

UFD Industrial Rugged Metal USB Flash Disk

SD Industrial SD & SDHC Memory Card

AD Industrial Adapter Card-Drive

CF Industrial CompactFlash Card

CFast Industrial CFast Card

ATA Industrial PCMCIA ATA Card

MIF Industrial micro IDE Flash Module

MSF Industrial micro SATA Flash Module

MUM Industrial micro USB Flash Module

MPM Industrial mini PCI-e Flash Module

MSM Industrial mini SATA Flash Module

SSD Industrial Solid State Disk

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