

HERMES-D Series

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



Product features

- MLC - NAND type flash technology
- Maximum sequential read speed 129.3MB/sec (64GB)
- Maximum sequential write speed 81.3 MB/sec (64GB)
- Compatible with JEDEC MO-297A physical specification
- S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology) Function and monitor software supported.
- Capacity from 8GB up to 128GB

Product specifications

Compatibility	<ul style="list-style-type: none"> SATA 1.0a and SATA 2.6 Specification compliance 	Power consumption	<ul style="list-style-type: none"> Power requirement +5V ± 10%
Form-factor	<ul style="list-style-type: none"> 1.8" Slim Lite SATA II SSD JEDEC MO-297A Specification compliance 	Reading mode	<ul style="list-style-type: none"> 190mA (Max.)
Flash technology	<ul style="list-style-type: none"> MLC-NAND type flash based 	Writing mode	<ul style="list-style-type: none"> 225mA (Max.)
Host Interface	<ul style="list-style-type: none"> SATA 7-pin (data) + 15-pin (power) 	Idle mode	<ul style="list-style-type: none"> 135mA (Max.)
Performance	<ul style="list-style-type: none"> Data transfer rate Serial ATA Gen-I and Gen-II Sequential read 129.3 MB/sec (Max.) Sequential write 81.3 MB/sec (Max.) Random access time 0.2ms (estimated) 	Reliability	<ul style="list-style-type: none"> Wear-leveling Static wear-leveling algorithms ECC 24 bits per 1024 bytes block
Environmental specification	<ul style="list-style-type: none"> Operating temp. STD. 0°C~70°C/W.T. -40°C~+85°C Non-operating temp. STD. -20°C~+80°C/W.T. -50°C~+95°C 	Physical specification	<ul style="list-style-type: none"> Weight 15g ± 2g /0.53 oz. Dimension(W x L x H) 54.00 x 39.00 x 5.45 (mm)
Conformal coating	<ul style="list-style-type: none"> Option for wide temperature 	Warranty	<ul style="list-style-type: none"> 2 years
Humidity	<ul style="list-style-type: none"> 10% ~ 95% non-condensing 		
Vibration	<ul style="list-style-type: none"> 15G compliance to MIL-STD-810F 		
Shock	<ul style="list-style-type: none"> 1,500G compliance to MIL-STD-810F 		
Altitude	<ul style="list-style-type: none"> 70,000 feet 		

Operating temperature supports Standard grade 0°C ~ 70°C and Wide temp. Grade -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-JDCMM	WB8SJ004G-JDCMM/C
	8GB	SB8SJ008G-JDCMM	WB8SJ008G-JDCMM/C
	16GB	SB8SJ016G-JDCMM	WB8SJ016G-JDCMM/C
	32GB	SB8SJ032G-JDCMM	WB8SJ032G-JDCMM/C
	64GB	SB8SJ064G-JDCMM	WB8SJ064G-JDCMM/C
	128GB	SB8SJ128G-JDCMM	WB8SJ128G-JDCMM/C

Remarks:

Wide temperature grade -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**

Example

W B 8 S J 1 2 8 G — **J D C M M** / **C**

X1 ▶ **Grade**

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

X3 X4 X5 ▶ **Product category**

8SJ : 1.8" Slim Lite SATA II SSD

X14 ▶ **Flash IC**

M : Micron flash IC

X6 X7 X8 X9 ▶ **Capacity**

004G : 4GB **032G** : 32GB
008G : 8GB **064G** : 64GB
016G : 16GB **128G** : 128GB

X15 ▶ **Flash IC grade**

M : MLC-NAND flash IC

C ▶ **Reserved for specific requirement**

C : Conformal-coating

X11 ▶ **Controller**

J : JMicron (HERMES Series)

CFC CompactFlash Card

CFA CFast Card

AFC PCMCIA ATA Card

MIF micro IDE Flash Module

MSF micro SATA Flash Module

MUM micro USB Flash Module

MPM mini PCIe Flash Module

MSM mini SATA Flash Module

SSD Solid State Disk

UFD Rugged Metal USB Flash Disk

SDC/H SD & SDHC Memory Card

AD Adapter Card-Drive

CFC CompactFlash Card

CFA CFast Card

AFC PCMCIA ATA Card

MIF micro IDE Flash Module

MSF micro SATA Flash Module

MUM micro USB Flash Module

MPM mini PCIe Flash Module

MSM mini SATA Flash Module

SSD Solid State Disk

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