

HERMES Series

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



Product features

- MLC - NAND type flash technology
- Maximum sequential read speed 97.9MB/sec
- Maximum sequential write speed 54.5MB/sec
- Compatible with JEDEC MO-297A physical specification
- Capacity from 4GB up to 64GB

Product specifications

Compatibility		Power consumption	
SATA 1.0a and SATA 2.6		Power requirement	
Specification compliance		+5V ± 10%	
1.8" Slim Lite SATA II SSD JEDEC		Reading mode	
MO-297A Specification compliance		220mA (Max.)	
Flash technology		Writing mode	
MLC-NAND type flash based		290mA (Max.)	
Host Interface		Idle mode	
SATA 7-pin (data) + 15-pin (power)		150mA (Max.)	
Performance		Reliability	
Data transfer rate		Wear-Leveling	
Serial ATA Gen-I and Gen-II		Static wear-leveling algorithms	
Sequential read		ECC	
97.9 MB/sec (Max.)		8 bits or 15 bits per 512bytes block	
Sequential write		Physical specification	
54.5 MB/sec (Max.)		Weight	
Random access time		15g ± 2g /0.53 oz.	
0.2ms (estimated)		Dimension(W x L x H)	
Environmental specification		54.00 x 39.00 x 5.45 (mm)	
Operating temp.		Warranty	
STD. 0°C~70°C/W.T. -40°C~+85°C		2 years	
Non-operating temp.			
STD. -20°C~+80°C/W.T. -50°C~+95°C			
Conformal coating			
Option for wide temperature			
Humidity			
10% ~ 95% non-condensing			
Vibration			
15G compliance to MIL-STD-810F			
Shock			
1,500G compliance to MIL-STD-810F			
Altitude			
70,000 feet			

Advanced Performance & Rugged Orientation

APRO Co., Ltd.

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-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 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 A C M C / 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 : MLC-NAND flash IC

X6 X7 X8 X9 Capacity
004G : 4GB 032G : 32GB
008G : 8GB 064G : 64GB
016G : 16GB

X15 Flash IC grade
C : Commercial grade

X11 Controller
J : JMicon (HERMES Series)

C Reserved for specific requirement
C : Conformal-coating

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 PCI-e Flash
Module

MSM
mini SATA Flash
Module

SSD
Solid State
Disk

UFD
Rugged Metal
USB Flash Disk

SDC/H
SD & SDHC
Memory Card

AD
Adaptor
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 PCI-e Flash
Module

MSM
mini SATA Flash
Module

SSD
Solid State
Disk

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