

HERMES-E Series

High Performance 1.8" micro SATA II MLC SSD



Product features

- MLC - NAND type flash technology
- Maximum sequential read speed 190 MB/sec (Max.)
- 1.8" micro SATA SSD form-factor
- Maximum sequential write speed 130 MB/sec (Max.)
- Supports Windows-7 TRIM Command
- Capacity from 16GB up to 256GB

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 +3.3V or +5V ±5% Power input voltage.
Flash technology	<ul style="list-style-type: none"> MLC-NAND type flash based 	Reading mode	<ul style="list-style-type: none"> 3.3V/590 mA (Max.) 5V/440 mA (Max.)
Form-factor	<ul style="list-style-type: none"> 1.8" micro SATA SSD 	Writing mode	<ul style="list-style-type: none"> 3.3V/670 mA (Max.) 5V/530 mA (Max.)
Host Interface	<ul style="list-style-type: none"> Micro SATA II 7-pin (data) + 9-pin (power) 	Idle mode	<ul style="list-style-type: none"> 3.3V/260 mA (Max.) 5V/220 mA (Max.)
Performance		Reliability	<ul style="list-style-type: none"> Wear-leveling Static wear-leveling algorithms
Data transfer rate	<ul style="list-style-type: none"> Serial ATA Gen-I and Gen-II (1.5Gb/s and 3.0Gb/s) 	ECC	<ul style="list-style-type: none"> 16 bits per 512 bytes block
Sequential read	<ul style="list-style-type: none"> 190 MB/sec (Max.) 	Physical specification	
Sequential write	<ul style="list-style-type: none"> 130 MB/sec (Max.) 	Weight	<ul style="list-style-type: none"> 25g ± 5g /0.88 oz.
Random access time	<ul style="list-style-type: none"> 0.2ms (estimated) 	Dimension(W x L x H)	<ul style="list-style-type: none"> 54.00 x 78.50 x 5.00 (mm)
Environmental specification		Warranty	<ul style="list-style-type: none"> 2 years
Operating temp.	<ul style="list-style-type: none"> STD. 0°C~70°C/W.T. -40°C~+85°C 		
Non-operating temp.	<ul style="list-style-type: none"> STD. -20°C~+80°C/W.T. -50°C~+95°C 		
Conformal coating	<ul style="list-style-type: none"> Option for wide temperature 		
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 - High Performance 1.8" micro SATA II MLC SSD

Product Picture	Capacity	0°C ~ 70°C	-40°C ~ +85°C
	16GB	SP8SF016G-JECMM	WP8SF016G-JECMM/C
	32GB	SP8SF032G-JECMM	WP8SF032G-JECMM/C
	64GB	SP8SF064G-JECMM	WP8SF064G-JECMM/C
	128GB	SP8SF128G-JECMM	WP8SF128G-JECMM/C
	256GB	SP8SF256G-JECMM	WP8SF256G-JECMM/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 P 8 S F 2 5 6 G — J E 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, D....

X13 ➤ Controller grade

C : Commercial grade

X2 ➤ The material of casing

P : Plastic frame kit

X14 ➤ Flash IC

M : Micron NAND flash IC

X3 X4 X5 ➤ Product category

8SF : 1.8" micro SATA II SSD

X15 ➤ Flash IC grade

M : MLC NAND flash IC

X6 X7 X8 X9 ➤ Capacity

016G : 16GB 128G : 128GB

032G : 32GB 256G : 256GB

064G : 64GB

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

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