

HERMES-E Series

High Performance 2.5" SATA II MLC SSD Rugged Metal Casing



Product features

- MLC - NAND type flash technology
- Extremely rugged metal casing to endure harsh environments
- 2.5" SATA SSD form-factor
- Maximum sequential read speed 244 MB/sec (8CH. Max.)
- Supports Windows-7 TRIM Command
- Maximum sequential write speed 238 MB/sec (8CH. Max.)
- Capacity from 64GB up to 512GB

Product specifications

Compatibility	SATA 1.0a and SATA 2.6 Specification compliance	Power consumption	Power requirement	+5V ± 10%
Flash technology	MLC-NAND type flash based	Reading mode	570 mA (8CH. Max.)	
Form-factor	Rugged Metal 2.5" SATA SSD	Writing mode	720 mA (8CH. Max.)	
Host Interface	SATA 7-pin (data) + 15-pin (power)	Idle mode	210 mA (8CH. Max.)	
Performance		Reliability		
Data transfer rate	Serial ATA Gen-I and Gen-II (1.5Gb/s and 3.0Gb/s)	Wear-leveling	Static wear-leveling algorithms	
Sequential read	244 MB/sec (8CH. Max.)	ECC	16 bits per 512 bytes block	
Sequential write	238 MB/sec (8CH. Max.)	Physical specification		
Random access time	0.2ms (estimated)	Weight	115g ± 5g /4.06 oz.	
Environmental specification		Dimension(W x L x H)	69.90 x 99.70 x 9.50 (mm)	
Operating temp.	STD. 0° C~70° C/W.T. -40° C~+85° C	Warranty	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			

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

Part number list - 2.5" rugged metal SATA II MLC SSD

Product Picture	Capacity	0° C ~ 70° C	-40° C ~ +85° C
	64GB	SR2SF064G-JECMM	WR2SF064G-JECMM/C
	128GB	SR2SF128G-JECMM	WR2SF128G-JECMM/C
	256GB	SR2SF256G-JECMM	WR2SF256G-JECMM/C
	512GB	SR2SF512G-JECMM	WR2SF512G-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 R 2 S F 1 2 8 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....

X2 ➤ The material of casing

R : Rugged metal casing

X13 ➤ Controller grade

C : Commercial grade

X3 X4 X5 ➤ Product category

2SF : 2.5" SATA II SSD

X14 ➤ Flash IC

M : Micron NAND flash IC

X6 X7 X8 X9 ➤ Capacity

064G : 64GB 512G : 512GB

128G : 128GB

256G : 256GB

X15 ➤ Flash IC grade

M : MLC NAND flash IC

C ➤ Reserved for specific requirement

C : Conformal-coating

X11 ➤ Controller

J : JMicron (HERMES Series)