

HERMES-E Series

Industrial Rugged Metal 2.5" SATA II SLC SSD
supports DDRII SDRAM Cache



Product features

- SLC - NAND type flash technology
- 2.5" SATA SSD form-factor
- Extremely rugged metal casing to endure harsh environments
- Supports Windows-7 TRIM Command
- Supports DDRII SDRAM 512Mbits cache for extreme performance
- Enhances power buffering against data loss when host power failed
- Maximum sequential read speed 251.4 MB/sec (8CH. Max.)
- Maximum sequential write speed 192.6 MB/sec (8CH. Max.)
- Capacity from 256GB up to 512GB

Product specifications

Compatibility	SATA 1.0a and SATA 2.6 specification compliance
Flash technology	SLC-NAND type flash based
Form-factor	Rugged Metal 2.5" SATA SSD
Host Interface	Standard SATA 7-pin (data) + 15-pin (power)
Performance	
Data transfer rate	Serial ATA Gen-I (1.5Gbits) and Gen-II (3.0Gbits)
Sequential read	251.4 MB/sec (8CH. Max.)
Sequential write	192.6 MB/sec (8CH. Max.)
Random access time	0.2 ms
Environmental specification	
Operating temp.	STD. 0°C ~ 70°C / IND. -40°C ~ +85°C
Non-operating temp.	STD. -20°C ~ +80°C / IND. -50°C ~ +95°C
Humidity	10% ~ 95% non-condensing
Vibration	15 G compliance to MIL-STD-810F
Shock	1,500 G compliance to MIL-STD-810F
Altitude	70,000 feet

Power consumption	
Power requirement	+5V ± 10%
Reading mode	570 mA (8CH. Max.)
Writing mode	720 mA (8CH. Max.)
Idle mode	210 mA (8CH. Max.)
Reliability	
Wear-leveling	Static wear-leveling algorithms
MTBF	> 4,000,000 hours
ECC	16 bits per 512 bytes block
Endurance	> 2,000,000 cycles
Data retention	10 years
Physical specification	
Weight (max.)	256GB : 115g ± 5g / 4.06 oz. 512GB : 200g ± 5g / 7.05 oz.
Dimension(W x L x H)	256GB : 69.90 x 99.70 x 9.50 (mm) 512GB : 69.90 x 99.70 x 11.30 (mm)
Conformal coating	Option for special request
Warranty	
Standard grade	3 years
Industrial grade	5 years

Operating temperature supports Standard grade 0°C ~ 70°C and Industrial grade -40°C ~ +85°C

Part number list - Industrial 2.5" rugged metal SATA II SLC SSD supports DDRII SDRAM

Product Picture	Capacity	0°C ~ 70°C	-40°C ~ +85°C
	256GB	SR2SR256G-JECSC	WR2SR256G-JEISI
	512GB	SR2SR512G-JECSC	WR2SR512G-JEISI

Part number decoder

X1	X2	X3	X4	X5	X6	X7	X8	X9	—	X11	X12	X13	X14	X15	—	C				
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Example

S	R	2	S	R	2	5	6	G	—	J	E	C	S	C						
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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

R : Rugged metal casing

X3 X4 X5 ➤ Product category

2SR : 2.5" SATA II SSD supports DDR SDRAM

X6 X7 X8 X9 ➤ Capacity

256G : 256GB

512G : 512GB

X11 ➤ Controller

J : JMicon (HERMES Series)

X12 ➤ Controller version

A,B,C.....E

X13 ➤ Controller grade

C : Commercial grade

I : Industrial 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 PCIe Flash Module

MSM
Industrial mini SATA Flash Module

SSD
Industrial Solid State Disk

UED
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 PCIe Flash Module

MSM
Industrial mini SATA Flash Module

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