

HERMES-E Series

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



Product features

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

Product specifications

Compatibility	✦ SATA 1.0a and SATA 2.6 Specification compliance	Power consumption	Power requirement ✦ +5V ± 10%
Flash technology	✦ SLC-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	✦ 251.4 MB/sec (8CH. Max.)	MTBF	✦ > 4,000,000 hours
Sequential write	✦ 192.6 MB/sec (8CH. Max.)	Endurance	✦ > 2,000,000 cycles
Random access time	✦ 0.2ms (estimated)	ECC	✦ 16 bits per 512 bytes block
Environmental specification		Data retention	✦ 10 Years
Operating temp.	✦ STD. 0°C~70°C/W.T. -40°C~+85°C	Physical specification	
Non-operating temp.	✦ STD. -20°C~+80°C/W.T. -50°C~+95°C	Weight	✦ 256GB : 115g ± 5g /4.06 oz.
Humidity	✦ 10% ~ 95% non-condensing	512GB : 200g ± 5g /7.05 oz.	
Vibration	✦ 15G compliance to MIL-STD-810F	Dimension(W x L x H)	✦ 256GB : 69.90 x 99.70 x 9.50 (mm)
Shock	✦ 1,500G compliance to MIL-STD-810F	512GB : 69.90 x 99.70 x 11.30 (mm)	
Altitude	✦ 70,000 feet	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-JECTC(/C)	WR2SR256G-JEITI(/C)
	512GB	SR2SR512G-JECTC(/C)	WR2SR512G-JEITI(/C)

Part number decoder

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

Example

W R 2 S R 2 5 6 G — J E I S I / C

X1 ✦ Grade

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

W : Industrial grade operating temp. -40° C ~ +85° C

X12 ✦ Controller version

A,B,C,....

X2 ✦ The material of casing

R : Rugged metal casing

X13 ✦ Controller grade

C : Commercial grade

I : Industrial grade

X3 X4 X5 ✦ Product category

2SR : 2.5" SATA II SSD supports DDR SDRAM

X14 ✦ Flash IC

S : Samsung SLC-NAND flash IC

X6 X7 X8 X9 ✦ Capacity

256G : 256GB

512G : 512GB

X15 ✦ Flash IC grade

C : Commercial grade

I : Industrial grade

C ✦ Reserved for specific requirement

C : Conformal-coating

X11 ✦ Controller

J : JMicron (HERMES Series)

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 PCI-e Flash Module

MSM Industrial mini SATA Flash Module

SSD Industrial Solid State Disk

UFD 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 PCI-e Flash Module

MSM Industrial mini SATA Flash Module

SSD Industrial Solid State Disk

UFD Industrial Rugged Metal USB Flash Disk

SD Industrial SD & SDHC Memory Card

AD Industrial Adapter Card-Drive