

HERMES-ER Series

Industrial 1.8" micro SATA II SLC SSD supports DDRII SDRAM Cache



Product features

- SLC - NAND type flash technology
- 1.8" micro SATA SSD form-factor
- Supports Windows-7 TRIM Command
- Supports DDRII SDRAM 512Mbits cache for Extreme performance
- Maximum sequential read speed 203.3 MB/sec (Max.)
- Maximum sequential write speed 107.8 MB/sec (Max.)
- Capacity from 8GB up to 128GB

Product specifications

Compatibility	SATA 1.0a and SATA 2.6 Specification compliance	Power consumption	Power requirement 3.3V or +5V ±5% Power input voltage.
Flash technology	SLC-NAND type flash based	Reading mode	3.3V/590 mA (Max.) 5V/440 mA (Max.)
Form-factor	1.8" micro SATA SSD	Writing mode	3.3V/670 mA (Max.) 5V/530 mA (Max.)
Host Interface	Micro SATA II 7-pin (data) + 9-pin (power)	Sleeping mode	3.3V/260 mA (Max.) 5V/220 mA (Max.)
Performance		Reliability	Wear-leveling Static wear-leveling algorithms
Data transfer rate	Serial ATA Gen-I and Gen-II (1.5Gb/s and 3.0Gb/s)	MTBF	> 3,000,000 hours
Sequential read	203.3 MB/sec (Max.)	Endurance	> 2,000,000 cycles
Sequential write	107.8 MB/sec (Max.)	ECC	24 bits per 512 bytes block
Random access time	0.2ms (estimated)	Data retention	10 Years
Environmental specification		Physical specification	Weight 25g ± 2g /0.88 oz.
Operating temp.	STD. 0°C~70°C/IND. -40°C~+85°C	Dimension(W x L x H)	54.00 x 78.50 x 5.00 (mm)
Non-operating temp.	STD. -20°C~+80°C/IND. -50°C~+95°C	Conformal coating	Option for special request
Humidity	10% ~ 95% non-condensing	Warranty	
Vibration	15G compliance to MIL-STD-810F	Standard grade	3 years
Shock	1,500G compliance to MIL-STD-810F	Industrial grade	5 years
Altitude	70,000 feet		

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

Part number list - Industrial 1.8" micro SATA II SLC SSD supports DDRII SDRAM

Product Picture	Capacity	0°C ~ 70°C	-40°C ~ +85°C
	8GB	SP8SR008G-JECTC	WP8SR008G-JEITI
	16GB	SP8SR016G-JECTC	WP8SR016G-JEITI
	32GB	SP8SR032G-JECTC	WP8SR032G-JEITI
	64GB	SP8SR064G-JECTC	WP8SR064G-JEITI
	128GB	SP8SR128G-JECTC	WP8SR128G-JEITI

Part number decoder

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

Example

W P 8 S R 1 2 8 G — J E I T 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, D...

X2 ▶ The material of frame kit

P : Plastic frame kit

X13 ▶ Controller grade

C : Commercial grade

I : Industrial grade

X3 X4 X5 ▶ Product category

8SR : 1.8" micro SATA II SSD supports DDR SDRAM

X14 ▶ Flash IC

T : Toshiba SLC-NAND flash IC

X6 X7 X8 X9 ▶ Capacity

008G : 8GB

064G : 64GB

016G : 16GB

128G : 128GB

032G : 32GB

X15 ▶ Flash IC grade

C : Commercial grade

I : Industrial grade

C ▶ Reserved for specific requirement

C : Conformal-coating

X11 ▶ Controller

J : JMicon (HERMES Series)

CFC Industrial CompactFlash Card

CFA Industrial CFast Card

AFC 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

UFD Industrial Rugged Metal USB Flash Disk

SDC/H Industrial SD & SDHC Memory Card

AD Industrial Adapter Card-Drive

CFC Industrial CompactFlash Card

CFA Industrial CFast Card

AFC 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

UFD Industrial Rugged Metal USB Flash Disk

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