

# 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 64Mbits cache for Extreme performance
- ▶ Maximum sequential read speed 249 MB/sec (Max.)
- ▶ Maximum sequential write speed 215 MB/sec (Max.)
- ▶ Capacity from 8GB up to 128GB

## PRODUCT SPECIFICATION

<b>Compatibility</b>	<ul style="list-style-type: none"> <li>▶ SATA 1.0a and SATA 2.6</li> <li>▶ Specification compliance</li> </ul>	<b>Power consumption</b>	
<b>Flash technology</b>	▶ SLC-NAND type flash based	Power requirement	▶ +5V ± 10%
<b>Form-factor</b>	▶ 1.8" micro SATA SSD	Reading mode	▶ 350 mA (Max.)
<b>Host Interface</b>	▶ Micro SATA II 7-pin (data) + 9-pin (power)	Writing mode	▶ 500 mA (Max.)
<b>Performance</b>		Sleeping mode	▶ 150 mA (Max.)
Data transfer rate	▶ Serial ATA Gen-I and Gen-II (1.5Gb/s and 3.0Gb/s)	<b>Reliability</b>	
Sequential read	▶ 249MB/sec (Max.)	Wear-leveling	▶ Static wear-leveling algorithms
Sequential write	▶ 215MB/sec (Max.)	MTBF	▶ > 3,000,000 hours
Random access time	▶ 0.2ms (estimated)	Endurance	▶ > 2,000,000 cycles
<b>Environmental specification</b>		ECC	▶ 16 bits per 512 bytes block
Operating temp.	▶ STD. 0°C~70°C/IND. -40°C~+85°C	Data retention	▶ 10 Years
Non-operating temp.	▶ STD. -20°C~+80°C/IND. -50°C~+95°C	<b>Physical specification</b>	
Humidity	▶ 10% ~ 95% non-condensing	Weight	▶ 45g ± 5g /1.58 oz.
Vibration	▶ 7 Hz to 2K Hz, 20G, 3 axes	Dimension(W x L x H)	▶ 54.00 x 78.50 x 5.00 (mm)
Shock	▶ 0.5ms, 1500G, 3 axes	<b>Conformal coating</b>	▶ Option for special request
Altitude	▶ 70,000 feet	<b>Warranty</b>	
		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 1.8" micro SATA II SLC SSD supports DDRII SDRAM Cache

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

## 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

X2 ▶ **The material of frame kit**

**P** : Plastic frame kit

X3 X4 X5 ▶ **Product category**

**8SR** : 1.8" micro SATA II SSD supports DDRII SDRAM

X6 X7 X8 X9 ▶ **Capacity**

**008G** : 8GB    **064G** : 64GB

**016G** : 16GB    **128G** : 128GB

**032G** : 32GB

X11 ▶ **Controller**

**J** : JMicron (HERMES-ER Series)

X12 ▶ **Controller version**

**A, B, C, D.....**

X13 ▶ **Controller grade**

**C** : Commercial grade

**I** : Industrial grade

X14 ▶ **Flash IC**

**T** : Toshiba SLC-NAND flash IC

X15 ▶ **Flash IC grade**

**C** : Commercial grade

**I** : Industrial grade

C ▶ **Reserved for specific requirement**

**C** : Conformal-coating