

# HERMES-ER Series

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



## PRODUCT FEATURES


- ▶ SLC - NAND type flash technology
- ▶ 2.5" SATA SSD form-factor
- ▶ Supports Windows-7 TRIM Command
- ▶ Supports DDRII SDRAM cache for Extreme performance
- ▶ Extremely rugged metal casing to endure harsh environments
- ▶ Maximum sequential read speed 252.6 MB/sec (Max.)
- ▶ Maximum sequential write speed 218.2 MB/sec (Max.)
- ▶ Capacity from 64GB up to 256GB
- ▶ Supports Power Protection by Tantalum Capacitors

## PRODUCT SPECIFICATION

<b>Compatibility</b>	▶ SATA 1.0a and SATA 2.6 Specification compliance	<b>Power consumption</b>	
<b>Flash technology</b>	▶ SLC-NAND type flash based	Power requirement	▶ +5V ± 5%
<b>Form-factor</b>	▶ Rugged Metal 2.5" SATA SSD	Reading mode	▶ 570 mA (Max.)
<b>Host Interface</b>	▶ SATA 7-pin (data) + 15-pin (power)	Writing mode	▶ 720 mA (Max.)
<b>Performance</b>		Idle mode	▶ 210 mA (Max.)
Data transfer rate	▶ Serial ATA Gen-I and Gen-II (1.5Gb/s and 3.0Gb/s)	<b>Reliability</b>	
Sequential read	▶ 252.6 MB/sec (Max.)	Wear-leveling	▶ Static wear-leveling algorithms
Sequential write	▶ 218.2 MB/sec (Max.)	MTBF	▶ > 4,000,000 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	▶ 115 g ± 5 g / 4.06 oz.
Vibration	▶ 7 Hz to 2K Hz, 20G, 3 axes	Dimension(W x L x H)	▶ 69.90 x 99.70 x 9.50 (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 2.5" rugged metal SATA II SLC SSD supports DDRII SDRAM Cache

Product Picture	Capacity	0°C ~ 70°C	-40°C ~ +85°C
	<b>64GB</b>	SR2SR064G-JECTC(/C)	WR2SR064G-JEITI(/C)
	<b>128GB</b>	SR2SR128G-JECTC(/C)	WR2SR128G-JEITI(/C)
	<b>256GB</b>	SR2SR256G-JECTC(/C)	WR2SR256G-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 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 casing

**R** : Rugged metal casing

#### X3 X4 X5 ▶ Product category

**2SR** : 2.5" SATA II SSD supports DDRII SDRAM

#### X6 X7 X8 X9 ▶ Capacity

**064G** : 64GB

**128G** : 128GB

**256G** : 256GB

#### 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