

# HERMES Series

## Industrial Rugged Metal 2.5" SATA II SLC SSD



### Product features

- SLC - NAND type flash technology
- Performance up to 184.3 MB/sec (1200X)
- 2.5" SATA SSD form-factor
- Capacity from 8GB up to 128GB
- Extremely rugged metal casing to endure harsh environments

### Product specifications

<b>Compatibility</b>	SATA 1.0a and SATA 2.6 specification compliance	<b>Power consumption</b>	Power requirement	+5V ± 10%
<b>Flash technology</b>	SLC-NAND type flash based		Reading mode	320 mA (Max.)
<b>Form-factor</b>	Rugged Metal 2.5" SATA SSD		Writing mode	360 mA (Max.)
<b>Host Interface</b>	Standard SATA 7 pins (data) + 15 pins (power)		Sleeping mode	160 mA (Max.)
<b>Performance</b>		<b>Reliability</b>		
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	184.3 MB/sec (Max.)	MTBF	> 3,000,000 hours	
Sequential write	153.4 MB/sec (Max.)	ECC	8 bits or 15 bits per 512 bytes block	
Average access time	0.2 ms	Endurance	> 2,000,000 cycles	
<b>Environmental specification</b>		Data retention	10 years	
Operating temp.	STD. 0°C ~ 70°C / IND. -40°C ~ +85°C	<b>Physical specification</b>		
Non-operating temp.	STD. -20°C ~ +80°C / IND. -50°C ~ +95°C	Weight (max.)	115 g ± 5 g / 4.06 oz.	
Humidity	10% ~ 95% non-condensing	Dimension(W x L x H)	69.90 x 99.70 x 9.50 (mm)	
Vibration	15G compliance to MIL-STD-810F	<b>Conformal coating</b>	Option for special request	
Shock	1,500G compliance to MIL-STD-810F	<b>Warranty</b>		
Altitude	70,000 feet	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

Product Picture	Capacity	0°C ~ 70°C	-40°C ~ +85°C
	8GB	SR2SF008G-JACSC	WR2SF008G-JAISI
	16GB	SR2SF016G-JACSC	WR2SF016G-JAISI
	32GB	SR2SF032G-JACSC	WR2SF032G-JAISI
	64GB	SR2SF064G-JACSC	WR2SF064G-JAISI
	128GB	SR2SF128G-JACSC	WR2SF128G-JAISI

### Part number decoder

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

### Example

S R 2 S F 1 2 8 G — J A C S 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

2SF : 2.5" SATA II SSD

#### X6 X7 X8 X9 Capacity

008G : 8GB      064G : 64GB  
016G : 16GB      128G : 128GB  
032G : 32GB

#### X11 Controller

J : JMicron (HERMES Series)

#### X12 Controller version

A, B, C, .....

#### 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