

# HERMES Series

## Industrial Rugged Metal 1.8" SATA II SLC SSD



### Product features

- SLC - NAND type flash technology
- 1.8" SATA SSD form-factor
- Extremely rugged metal casing to endure harsh environments
- Maximum sequential read speed 184.2 MB/sec
- Maximum sequential write speed 153.3 MB/sec
- Capacity from 8GB up to 64GB

### 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	280.0 mA (Max.)
<b>Form-factor</b>	Rugged Metal 1.8" SATA SSD	Writing mode	340.0 mA (Max.)
<b>Host Interface</b>	Standard SATA 7 pins (data) + 15 pins (power)	Sleeping mode	150.0 mA (Max.)
<b>Performance</b>		<b>Reliability</b>	
Data transfer rate	Serial ATA Gen-I (1.5Gbits) and Gen-II (3.0Gbits)	Wear-leveling	Static wear-leveling algorithms
Sequential read	184.2 MB/sec (Max.)	MTBF	> 3,000,000 hours
Sequential write	153.3 MB/sec (Max.)	ECC	8 bits or 15 bits per 512 bytes block
Random 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.)	55 g ± 5 g / 1.94 oz.
Humidity	10% - 95% non-condensing	Dimension(W x L x H)	69.80 x 59.90 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 1.8" rugged metal SATA II SLC SSD

Product Picture	Capacity	0°C ~ 70°C	-40°C ~ +85°C
	8GB	SR8SF008G-JACSC	WR8SF008G-JAISI
	16GB	SR8SF016G-JACSC	WR8SF016G-JAISI
	32GB	SR8SF032G-JACSC	WR8SF032G-JAISI
	64GB	SR8SF064G-JACSC	WR8SF064G-JAISI

### Part number decoder

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

#### Example

S R 8 S F 0 6 4 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

#### X12 Controller version

A,B,C,.....

#### X13 Controller grade

C : Commercial grade

I : Industrial grade

#### X2 The material of casing

R : Rugged metal casing

#### X14 Flash IC

S : Samsung SLC-NAND flash IC

#### X3 X4 X5 Product category

8SF : 1.8" SATA II SSD

#### X15 Flash IC grade

C : Commercial grade

I : Industrial grade

#### X6 X7 X8 X9 Capacity

008G : 8GB                      032G : 32GB

016G : 16GB                    064G : 64GB

#### X11 Controller

J : JMicon (HERMES Series)

#### C Reserved for specific requirement

C : Conformal-coating