HERMES Series

Industrial Rugged Metal 2.5" SATA II SLC SSD

Product features

- SLC - NAND type flash technology
- 2.5" SATA SSD form-factor
- Extremely rugged metal casing to endure harsh environments
- Performance up to 184.3 MB/sec (1200X)
- Capacity from 8GB up to 128GB
- Include USB 2.0 Mini-B type connector to be an external hard drive solution

Product specifications

Compatibility	SATA 1.0a and SATA 2.6 specification compliance
Flash technology	SLC-NAND type flash based
Form-factor	Rugged Metal 2.5" SATA SSD
Host Interface	Standard SATA 7 pins (data) + 15 pins (power) Include USB 2.0 Mini-B type connector to be an external hard drive solution
Performance	
Data transfer rate	Serial ATA Gen-I and Gen-II (1.5Gb/s and 3.0Gb/s)
Sequential read	184.3 MB/sec (Max.)
Sequential write	153.4 MB/sec (Max.)
Random access time	0.2 ms
Environmental specification	
Operating temp.	STD. 0˚C ~ 70˚C / IND. -40˚C ~ +85˚C
Non-operating temp.	STD. -20˚C ~ +80˚C / IND. -50˚C ~ +95˚C
Humidity	10% ~ 95% non-condensing
Vibration	15 G compliance to MIL-STD-810F
Shock	1,500 G compliance to MIL-STD-810F
Altitude	70,000 feet

Power consumption	
Power requirement	+5V ± 10%
Reading mode	320 mA (Max.)
Writing mode	360 mA (Max.)
Idle mode	160 mA (Max.)
Reliability	
Wear-leveling	Static wear-leveling algorithms
MTBF	> 3,000,000 hours
ECC	8 bits or 15 bits per 512 bytes block
Endurance	> 2,000,000 cycles
Data retention	10 years
Physical specification	
Weight (max.)	115 g ± 5 g / 4.06 oz.
Dimension(W x L x H)	69.90 x 99.70 x 9.50 (mm)
Conformal coating	Option for special request
Warranty	
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
016G : 16GB
032G : 32GB
064G : 64GB
128G : 128GB

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