

HERMES Series

Industrial 1.8" SATA II SLC SSD Rugged Metal Casing



Product features

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

Product specifications

Compatibility	❖ SATA 1.0a and SATA 2.6 Specification compliance	Power consumption	Power requirement ❖ +5V ± 10%
Flash technology	❖ SLC-NAND type flash based	Reading mode	❖ 280mA (Max.)
Form-factor	❖ Rugged Metal 1.8" SATA SSD	Writing mode	❖ 340mA (Max.)
Host Interface	❖ SATA 7-pin (data) + 15-pin (power)	Idle mode	❖ 150mA (Max.)
Performance		Reliability	
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	❖ 184.2MB/sec (Max.)	MTBF	❖ > 3,000,000 hours
Sequential write	❖ 153.3MB/sec (Max.)	Endurance	❖ > 2,000,000 cycles
Random access time	❖ 0.2ms (estimated)	ECC	❖ 8 bits or 15 bits per 512 bytes block
Environmental specification		Data retention	❖ 10 Years
Operating temp.	❖ STD. 0°C~70°C/W.T. -40°C~+85°C	Physical specification	
Non-operating temp.	❖ STD. -20°C~+80°C/W.T. -50°C~+95°C	Weight	❖ 55g ± 5g /1.94 oz.
Conformal coating	❖ Option for wide temperature	Dimension(W x L x H)	❖ 69.80 x 59.90 x 9.50 (mm)
Humidity	❖ 10% ~ 95% non-condensing	Conformal coating	❖ Option for special request
Vibration	❖ 15G compliance to MIL-STD-810F	Warranty	
Shock	❖ 1,500G compliance to MIL-STD-810F	Standard grade	❖ 3 years
Altitude	❖ 70,000 feet	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(/C)	WR8SF008G-JAIS(/C)
	16GB	SR8SF016G-JACSC(/C)	WR8SF016G-JAIS(/C)
	32GB	SR8SF032G-JACSC(/C)	WR8SF032G-JAIS(/C)
	64GB	SR8SF064G-JACSC(/C)	WR8SF064G-JAIS(/C)

Part number decoder

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

Example

W R 8 S F 0 6 4 G — J A C S C / 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,....

X2 ❖ The material of casing

R : Rugged metal casing

X13 ❖ Controller grade

C : Commercial grade

I : Industrial grade

X3 X4 X5 ❖ Product category

8SF : 1.8" SATA II SSD

X14 ❖ Flash IC

S : Samsung SLC-NAND flash IC

X6 X7 X8 X9 ❖ Capacity

008G : 8GB **064G** : 64GB

016G : 16GB

032G : 32GB

X15 ❖ Flash IC grade

C : Commercial grade

I : Industrial grade

C ❖ Reserved for specific requirement

C : Conformal-coating

X11 ❖ Controller

J : JMicron (HERMES Series)

CF Industrial CompactFlash Card

CFast Industrial CFast Card

ATA Industrial PCMCIA ATA Card

MIF Industrial micro IDE Flash Module

MSF Industrial micro SATA Flash Module

MUM Industrial micro USB Flash Module

MPM Industrial mini PCI-e Flash Module

MSM Industrial mini SATA Flash Module

SSD Industrial Solid State Disk

UFD Industrial Rugged Metal USB Flash Disk

SD Industrial SD & SDHC Memory Card

AD Industrial Adapter Card-Drive

CF Industrial CompactFlash Card

CFast Industrial CFast Card

ATA Industrial PCMCIA ATA Card

MIF Industrial micro IDE Flash Module

MSF Industrial micro SATA Flash Module

MUM Industrial micro USB Flash Module

MPM Industrial mini PCI-e Flash Module

MSM Industrial mini SATA Flash Module

SSD Industrial Solid State Disk

UFD Industrial Rugged Metal USB Flash Disk

SD Industrial SD & SDHC Memory Card

AD Industrial Adapter Card-Drive