

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 184.2MB/sec
- ❑ Maximum sequential write speed 153.3MB/sec
- ❑ 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	❑ Standard SATA 7-pin (data) + 15-pin (power)	Sleeping mode	❑ 150mA (Max.)
Performance		Reliability	
Data transfer rate	❑ Serial ATA Gen-I (1.5Gbits) and Gen-II (3.0Gbits)	Wear-leveling	❑ Static wear-leveling algorithms
Sequential read	❑ 184.2MB/sec (Max.)	MTBF	❑ > 3,000,000 hours
Sequential write	❑ 153.3MB/sec (Max.)	ECC	❑ 8 bits or 15 bits per 512bytes block
Random access time	❑ 0.2ms	Endurance	❑ > 2,000,000 cycles
Environmental specification		Data retention	❑ 10 years
Operating temp.	❑ STD. 0°C ~ 70°C / IND. -40°C ~ +85°C	Physical specification	
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	Conformal coating	❑ Option for special request
Shock	❑ 1,500G compliance to MIL-STD-810F	Warranty	
Altitude	❑ 70,000 feet	Standard grade	❑ 3 years
		Industrial grade	❑ 5 years



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Advanced Performance & Rugged Orientation

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

X2 ❑ The material of casing

R : Rugged metal casing

X3 X4 X5 ❑ Product category

8SF : 1.8" SATA II SSD

X6 X7 X8 X9 ❑ Capacity

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

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

CF Industrial CompactFlash Card

CFast Industrial CFast Card

ATA Industrial PCMCIA ATA Card

MIF Industrial micro IDE Flash Module

MSE Industrial micro SATA Flash Module

MUM Industrial micro USB Module

SSD Industrial Solid State Disk

USB 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

MSE Industrial micro SATA Flash Module

MUM Industrial micro USB Module

SSD Industrial Solid State Disk

USB Industrial Rugged Metal USB Flash Disk

SD Industrial SD & SDHC Memory Card

AD Industrial Adapter Card-Drive