

HERMES Series

Industrial 2.5" Rugged Metal SATA II SLC SSD External USB 2.0 Mini-B type connector



Product features

- ✦ SLC - NAND type flash technology
- ✦ 2.5" SATA SSD form-factor
- ✦ SATA 1.0a and SATA 2.6 specification compliance
- ✦ SATA 7-pin (data) + 15-pin (power connector)
- ✦ Extremely rugged metal casing to endure harsh environments
- ✦ Performance up to 184.3 MB/sec
- ✦ 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	Power consumption	Power requirement ✦ +5V ± 10%
Flash technology	✦ SLC-NAND type flash based	Reading mode	✦ 320mA (Max.)
Form-factor	✦ Rugged Metal 2.5" SATA SSD	Writing mode	✦ 360mA (Max.)
Host Interface	✦ SATA 7-pin (data) + 15-pin (power)	Idle mode	✦ 160mA (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	✦ 184.3 MB/sec (Max.)	MTBF	✦ > 3,000,000 hours
Sequential write	✦ 153.4 MB/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	✦ 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	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

Operating temperature supports Standard grade 0°C ~ 70°C and Industrial grade -40°C ~ +85°C
Part number list - 2.5" rugged metal SATA II SLC SSD

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

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 / C

X1 ✦ Grade

S : Standard grade operating temp. 0°C ~ 70°C

W : Industrial grade operating temp. -40°C ~ +85°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

2SF : 2.5" SATA II SSD

X15 ✦ Flash IC grade

C : Commercial grade

I : Industrial grade

X6 X7 X8 X9 ✦ Capacity

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

016G : 16GB **128G** : 128GB

032G : 32GB

C ✦ Reserved for specific requirement

C : Conformal-coating

X11 ✦ Controller

J : JMicron (HERMES Series)

X12 ✦ Controller version

A,B,C.....

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