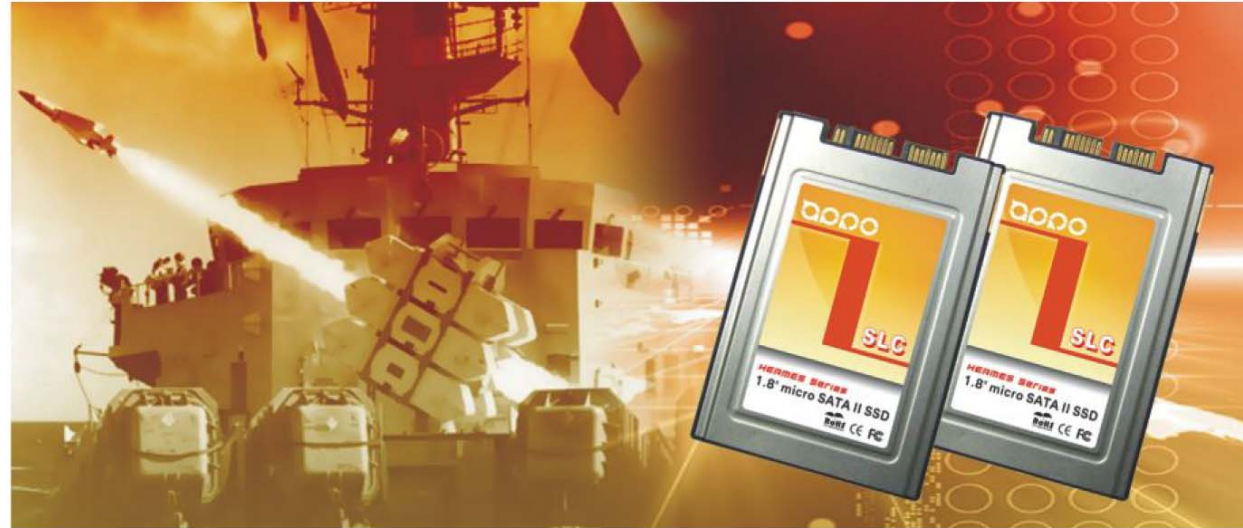


HERMES Series

Industrial 1.8" micro SATA II SLC SSD



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 Module

SSD

Industrial Solid State Disk

USB

Industrial Rugged Metal USB Flash Disk

SD

Industrial SD & SDHC Memory Card

AD

Industrial Adapter Card-Drive

Product features

- SLC - NAND type flash technology
- Capacity from 8GB up to 32GB
- 1.8" SATA SSD form-factor in 5 mm height
- Performance up to 176.8 MB/sec (Max.)
- Micro SATA 7 pins (data) + 9 pins (power) host interface
- Automatic 8 bits ECC and retry capabilities
- Compliant with SATA 1.0a and SATA 2.6 specification
- Support static wear-leveling algorithms

Product specifications

Compatibility	SATA 1.0a and SATA 2.6 specification compliance	Power consumption	Power requirement	+5V ± 10% / +3.3V ± 5%
Flash technology	SLC-NAND type flash based	Reading mode	350 mA (Max.)	
Form-factor	1.8" SATA SSD	Writing mode	500 mA (Max.)	
Host Interface	Micro SATA II 7 pins (data) + 9 pins (power connector)	Sleeping mode	150 mA (Max.)	
Performance		Reliability		
Data transfer rate	Serial ATA Gen-I and II (1.5Gb/s and 3.0Gb/s)	Wear-leveling	Static wear-leveling algorithms	
Sequential read	176.8 MB/sec (Max.)	MTBF	> 3,000,000 hours	
Sequential write	139.3 MB/sec (Max.)	ECC	8 bits per 512 bytes block	
Average access time	0.2 ms (estimated)	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.)	25 g ± 2 g / 0.88 oz.	
Humidity	10% ~ 95% non-condensing	Dimension(W x L x H)	54.00 x 78.50 x 5.00 (mm)	
Acoustic noise	0dB	Warranty		
Vibration	15G compliance to MIL-STD-810F	Standard grade	3 years	
Shock	1,500G compliance to MIL-STD-810F	Industrial grade	5 years	
Altitude	70,000 feet			




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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" micro SATA II SLC SSD

Product Picture	Capacity	0°C ~ 70°C	-40°C ~ +85°C
	8GB	SP8SF008G-JACSC	WP8SF008G-JAISI
	16GB	SP8SF016G-JACSC	WP8SF016G-JAISI
	32GB	SP8SF032G-JACSC	WP8SF032G-JAISI

Part number decoder

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

Example

S P 8 S F 0 3 2 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 frame kit
 - P : Plastic frame kit
- X3 X4 X5** Product category
 - 8SF : 1.8" micro SATA II SSD
- X6 X7 X8 X9** Capacity
 - 008G : 8GB
 - 016G : 16GB
 - 032G : 32GB
- X11** Controller
 - J : JMicon (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
- Y** Reserved for specific requirement
 - Y : Reserved for special request

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