

HERMES Series

Industrial 1.8" micro SATA II SLC SSD



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
- Supports static wear-leveling algorithms

Product specifications

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|--|---|
| Compatibility <ul style="list-style-type: none"> SATA 1.0a and SATA 2.6 specification compliance | Power consumption <ul style="list-style-type: none"> Power requirement +5V ± 10% Reading mode 350 mA (Max.) Writing mode 500 mA (Max.) Idle mode 150 mA (Max.) |
| Flash technology <ul style="list-style-type: none"> SLC-NAND type flash based | Reliability <ul style="list-style-type: none"> Wear-leveling Static wear-leveling algorithms MTBF > 3,000,000 hours ECC 8 bits per 512 bytes block Endurance > 2,000,000 cycles Data retention 10 years |
| Form-factor <ul style="list-style-type: none"> 1.8" SATA SSD | Physical specification <ul style="list-style-type: none"> Weight (max.) 25 g ± 2 g / 0.88 oz. Dimension(W x L x H) 54.00 x 78.50 x 5.00 (mm) |
| Host Interface <ul style="list-style-type: none"> Micro SATA II 7 pins (data) + 9 pins (power connector) | Warranty <ul style="list-style-type: none"> Standard grade 3 years Industrial grade 5 years |
| Performance <ul style="list-style-type: none"> Data transfer rate Serial ATA Gen-I and II (1.5Gb/s and 3.0Gb/s) Sequential read 176.8 MB/sec (Max.) Sequential write 139.3 MB/sec (Max.) Average access time 0.2 ms (estimated) | |
| Environmental specification <ul style="list-style-type: none"> 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 Acoustic noise 0dB Vibration 15G compliance to MIL-STD-810F Shock 1,500G compliance to MIL-STD-810F Altitude 70,000 feet | |

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

X12 Controller version

A,B,C,....

X2 The material of frame kit

P : Plastic frame kit

X13 Controller grade

C : Commercial grade

I : Industrial grade

X3 X4 X5 Product category

8SF : 1.8" micro SATA II SSD

X14 Flash IC

S : Samsung SLC-NAND flash IC

X6 X7 X8 X9 Capacity

008G : 8GB

016G : 16GB

032G : 32GB

X15 Flash IC grade

C : Commercial grade

I : Industrial grade

X11 Controller

J : JMicron (HERMES Series)

Y Reserved for specific requirement

Y : Reserved for special request