

HERMES Series

Industrial 1.8" Slim Lite SATA II SLC SSD



Product features


- SLC - NAND type flash technology
- 1.8" Slim Lite SATA II SSD compatible with JEDEC Standard: MO-297A physical specification
- Compliant with SATA 1.0a and SATA 2.6 specification
- Maximum sequential read speed 106.3 MB/sec
- Maximum sequential write speed 100.4 MB/sec
- Capacity from 4GB up to 32GB

Product specifications

- Compatibility**
- SATA 1.0a and SATA 2.6 specification compliance
- Form-factor**
- 1.8" Slim Lite SATA II SSD compatible with JEDEC Standard: MO-297A specification
- Flash technology**
- SLC-NAND type flash based
- Host Interface**
- Standard SATA 7 pins (data) + 15 pins (power)
- Performance**
- Data transfer rate**
- Serial ATA Gen-I (1.5Gbits) and Gen-II (3.0Gbits)
- Sequential read**
- 106.3 MB/sec (Max.)
- Sequential write**
- 100.4 MB/sec (Max.)
- Random access time**
- 0.2 ms
- Environmental specification**
- 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
- Vibration**
- 15G compliance to MIL-STD-810F
- Shock**
- 1,500G compliance to MIL-STD-810F
- Altitude**
- 70,000 feet
- Power consumption**
- Power requirement**
- +5V ± 10%
- Reading mode**
- 230 mA (Max.)
- Writing mode**
- 270 mA (Max.)
- Sleeping mode**
- 160 mA (Max.)
- Reliability**
- Wear-leveling**
- Static wear-leveling algorithms
- MTBF**
- > 3,000,000 hours
- ECC**
- 8 bits or 15 bits per 512 bytes block
- Endurance**
- > 2,000,000 cycles
- Data retention**
- 10 years
- Physical specification**
- Weight (max.)**
- 15 g ± 2 g / 0.53 oz.
- Dimension(W x L x H)**
- 54.00 x 40.10 x 5.45 (mm)
- Conformal coating**
- Option for special request
- Warranty**
- 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 - Industrial 1.8" Slim Lite SATA II SLC SSD

Product Picture	Capacity	0°C ~ 70°C	-40°C ~ +85°C
	4GB	SB8SJ004G-JACSC	WB8SJ004G-JAISJ
	8GB	SB8SJ008G-JACSC	WB8SJ008G-JAISJ
	16GB	SB8SJ016G-JACSC	WB8SJ016G-JAISJ
	32GB	SB8SJ032G-JACSC	WB8SJ032G-JAISJ

Part number decoder

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

Example

S B 8 S J 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 casing

B : Bare (without casing)

X13 Controller grade

C : Commercial grade

I : Industrial grade

X3 X4 X5 Product category

8SJ : 1.8" Slim Lite SATA II SSD

X14 Flash IC

S : Samsung SLC-NAND flash IC

X6 X7 X8 X9 Capacity

004G : 4GB 016G : 16GB

008G : 8GB 032G : 32GB

X15 Flash IC grade

C : Commercial grade

I : Industrial grade

X11 Controller

J : JMicron (HERMES Series)

C Reserved for specific requirement

C : Conformal-coating