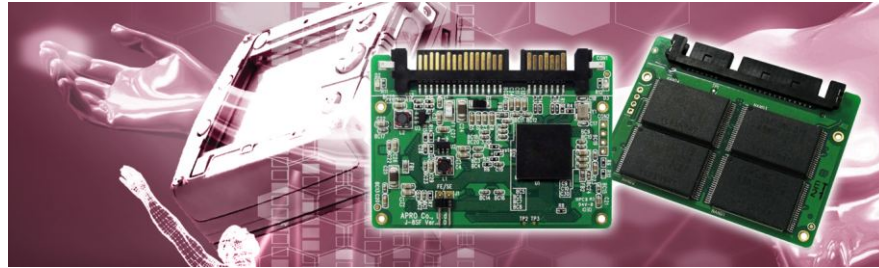


BON Series

Industrial 1.8" Slim Lite SATA II SLC SSD supports Fast Erase and Secure Erase



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
- Supports Fast Erase by Hardware and Software definition
- Supports Secure Erase by Software ATA command vendor code
- 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	Power consumption	Power requirement > +5V ± 10%
Form-factor	1.8" Slim Lite SATA II SSD compatible with JEDEC Standard: MO-297A specification	Reading mode	> 230 mA (Max.)
Flash technology	SLC-NAND type flash based	Writing mode	> 270 mA (Max.)
Host Interface	Standard SATA 7 pins (data) + 15 pins (power)	Sleeping mode	> 160 mA (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	> 106.3 MB/sec (Max.)	MTBF	> 3,000,000 hours
Sequential write	> 100.4 MB/sec (Max.)	ECC	> 8 bits or 15 bits per 512 bytes block
Random access time	> 0.2 ms	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.)	> 15 g ± 2 g / 0.53 oz.
Humidity	> 10% ~ 95% non-condensing	Dimension(W x L x H)	54.00 x 40.10 x 5.45 (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
Functionality		Industrial grade	> 5 years
Hardware	> Fast Erase the media data by hardware trigger		
Software	> Fast Erase the media data by ATA command vendor code > Secure Erase the media data by ATA command vendor code		
Sanitization Procedure	> Default sanitizing by erase block data to 0xFF on file table for Fast Erase > Sanitizing Based on NSA Manual 130-2 for Secure Erase > Sanitizing Based on USA Air Force AFSSI 5020 for Secure Erase		

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 supports FE/SE

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

Remarks:

UFE - Hardware and software ATA command code for Fast Erase function

USE - Secure Erase Procedure by Project Base

Part number decoder

X1 X2 X3 X4 X5 X6 X7 X8 X9 — X11 X12 X13 X14 X15 — Z1 Z2 Z3 C

Example

S B 8 S J 0 3 2 G — J A C S C — U F E

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

B : Bare (without casing)

X14 > Flash IC

S : Samsung SLC-NAND flash IC

X3 X4 X5 > Product category

8SJ : 1.8" Slim Lite SATA II SSD

X15 > Flash IC grade

C : Commercial grade

X6 X7 X8 X9 > Capacity

004G : 4GB

016G : 16GB

008G : 8GB

032G : 32GB

Z1 Z2 Z3 > Special function

UFE : Hardware and software ATA command code for Fast Erase function
USE : Secure Erase procedure by project base

X11 > Controller

J : JMicron (BON Series supports FE/SE)

C > Reserved for specific requirement

X12 > Controller version

C : Conformal-coating

A,B,C.....