

BON Series

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



Product features

- MLC - NAND type flash technology
- Compatible with JEDEC MO-297A physical specification
- Support Fast Erase by Hardware and Software definition
- Performance up to 97.9MB/sec
- Support Secure Erase by Software command Vender code
- Capacity from 4GB up to 64GB

Product specifications

Compatibility	✕ SATA 1.0a and SATA 2.6	Power consumption	
	Specification compliance		Power requirement ✕ +5V ± 10%
Flash technology	✕ 1.8" Slim Lite SATA II SSD JEDEC	Reliability	Reading mode ✕ 220mA (Max.)
	MO-297A Specification compliance		Writing mode ✕ 290mA (Max.)
Host Interface	✕ SATA 7-pin (data) + 15-pin (power)	Physical specification	Idle mode ✕ 150mA (Max.)
Performance		Wear-Leveling	✕ Static wear-leveling algorithms
		ECC	✕ 8 bits or 15 bits per 512bytes block
Data transfer rate	✕ Serial ATA Gen-I and Gen-II	Weight	✕ 15g ± 2g /0.53 oz.
Sequential read	✕ 97.9 MB/sec (Max.)	Dimension(W x L x H)	✕ 54.00 x 39.00 x 5.45 (mm)
Sequential write	✕ 54.5 MB/sec (Max.)	Conformal coating	✕ Option for wide temperature
Random access time	✕ 0.2ms (estimated)	Warranty	✕ 2 years
Environmental specification			
Operating temp.	✕ STD. 0°C~70°C/W.T. -40°C~+85°C		
Non-operating temp.	✕ STD. -20°C~+80°C/W.T. -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		
Functionality			
Hardware	✕ Fast Erase the media data by hardware trigger		
Software	✕ Fast Erase the media data by ATA command vender code		
	Secure Erase the media data by ATA command vender code		
Sanitization Procedure	✕ Default sanitizing by erase block data to 0xFF on file table for Fast Erase		
	Sanitizing Based on NSA Manual 130-2 / USA Air Force AFSSI 5020		
	DoD 5220.22-M / IREC(IRIG)106 for Secure Erase		

Advanced Performance & Rugged Orientation



Operating temperature supports Standard grade 0°C ~ 70°C and Wide temp. Grade -40°C ~ +85°C

Part number list - 1.8" Slim Lite SATA II MLC SSD supports FE/SE

Product Picture	Capacity	0°C ~ 70°C	-40°C ~ +85°C
	4GB	SB8SJ004G-JACMC-UFE(USE)	WB8SJ004G-JACMC-UFE(USE)C
	8GB	SB8SJ008G-JACMC-UFE(USE)	WB8SJ008G-JACMC-UFE(USE)C
	16GB	SB8SJ016G-JACMC-UFE(USE)	WB8SJ016G-JACMC-UFE(USE)C
	32GB	SB8SJ032G-JACMC-UFE(USE)	WB8SJ032G-JACMC-UFE(USE)C
	64GB	SB8SJ064G-JACMC-UFE(USE)	WB8SJ064G-JACMC-UFE(USE)C

Remarks:

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

USE - Secure Erase Procedure by Project Base

Wide temperature grade -40°C ~ +85°C with special conformal coating treatment on PCBA.

Part number decoder

X1	X2	X3	X4	X5	X6	X7	X8	X9	—	X11	X12	X13	X14	X15	—	Z1	Z2	Z3	/	C
S	R	S	J	1	2	8	G	—		J	A	C	M	C	—	U	F	E	/	C

X1 ✕ Grade

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

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

X2 ✕ The material of casing

B : Bare (without casing)

X3 X4 X5 ✕ Product category

8SJ : 1.8" Slim Lite SATA II SSD

X6 X7 X8 X9 ✕ Capacity

004G : 4GB **032G** : 32GB

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

016G : 16GB

X11 ✕ Controller

J : JMicon (BON Series supports FE/SE)

X12 ✕ Controller version

A, B, C, ...

X13 ✕ Controller grade

C : Commercial grade

X14 ✕ Flash IC

M : MLC-NAND flash IC

X15 ✕ Flash IC grade

C : Commercial grade

Z1 Z2 Z3 ✕ Special function

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

USE : Secure Erase procedure by project base

C ✕ Reserved for specific requirement

C : Conformal-coating