

BON Series

1.8" Slim Lite SATA II MLC SSD

supports Fast Erase and Secure Erase



Product features

- MLC - 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
- Support Fast Erase by Hardware and Software definition
- Support Secure Erase by Software ATA command vendor code
- Maximum sequential read speed 97.9MB/sec
- Maximum sequential write speed 54.5MB/sec
- Capacity from 4GB up to 64GB

Product specifications

Compatibility	<ul style="list-style-type: none"> SATA 1.0a and SATA 2.6 specification compliance 1.8" Slim Lite SATA II SSD compatible with JEDEC Standard: MO-297A specification 	Power consumption	<ul style="list-style-type: none"> Power requirement +5V ± 10% Reading mode 220mA (Max.) Writing mode 290mA (Max.) Sleeping mode 150mA (Max.)
Flash technology	<ul style="list-style-type: none"> MLC-NAND type flash based 	Reliability	<ul style="list-style-type: none"> Wear-leveling Static wear-leveling algorithms ECC 8 bits or 15 bits per 512bytes block
Host Interface	<ul style="list-style-type: none"> Standard SATA 7-pin (data) + 15-pin (power) 	Physical specification	<ul style="list-style-type: none"> Weight (max.) 15 g ± 2 g /0.53 oz. Dimension(W x L x H) 54.00 x 40.10 x 5.45 (mm)
Performance	<ul style="list-style-type: none"> Data transfer rate Serial ATA Gen-I (1.5Gbits) and Gen-II (3.0Gbits) Sequential read 97.9MB/sec (Max.) Sequential write 54.5MB/sec (Max.) Random access time 0.2ms 	Conformal coating	<ul style="list-style-type: none"> Option for wide temperature
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 Vibration 15G compliance to MIL-STD-810F Shock 1,500G compliance to MIL-STD-810F Altitude 70,000 feet 	Warranty	<ul style="list-style-type: none"> 1 year
Functionality	<ul style="list-style-type: none"> 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 - 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

Industrial 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

Example

W B 8 S J 0 6 4 G — J A C M C — U F E 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 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 : JMicron (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

MLC CF

MLC CompactFlash Card

MLC CFast

MLC CFast Card

MLC ATA

MLC PCMCIA ATA Card

MLC MIF

MLC micro IDE Flash Module

MLC MSE

MLC micro SATA Flash Module

MLC MUM

MLC micro USB Module

MLC SSD

MLC Solid State Disk

MLC USB

MLC Rugged Metal USB Flash Disk

MLC SD

MLC SD & SDHC Memory Card

AD

Industrial Adapter Card-Drive

MLC CF

MLC CompactFlash Card

MLC CFast

MLC CFast Card

MLC ATA

MLC PCMCIA ATA Card

MLC MIF

MLC micro IDE Flash Module

MLC MSE

MLC micro SATA Flash Module

MLC MUM

MLC micro USB Module

MLC SSD

MLC Solid State Disk

MLC USB

MLC Rugged Metal USB Flash Disk

MLC SD

MLC SD & SDHC Memory Card

AD

Industrial Adapter Card-Drive