

BON Series

Rugged Metal 1.8" SATA II MLC SSD
supports Fast Erase and Secure Erase



Product features


- MLC - NAND type flash technology
- Extremely rugged metal casing to endure harsh environments
- Support Fast Erase by Hardware and Software definition
- Performance up to 172.0MB/sec
- Support Secure Erase by Software ATA command vendor code
- Capacity from 8GB up to 128GB

Product specifications

Compatibility	SATA 1.0a and SATA 2.6 specification compliance	Power consumption	Power requirement	+5V ± 10%
Flash technology	MLC-NAND type flash based	Reading mode	290mA (Max.)	
Form-factor	Rugged Metal 1.8" SATA SSD	Writing mode	420mA (Max.)	
Host Interface	SATA 7-pin (data) + 15-pin (power)	Sleeping mode	160mA (Max.)	
Performance		Reliability		
Data transfer rate	Serial ATA Gen-I and Gen-II (1.5Gb/s and 3.0Gb/s)	Wear-leveling	Static wear-leveling algorithms	
Sequential read	172.0 MB/sec (Max.)	ECC	8 bits or 15 bits per 512bytes block	
Sequential write	98.5 MB/sec (Max.)	Physical specification		
Average access time	0.2ms	Weight (max.)	55g ± 5g / 1.94 oz.	
Environmental specification		Dimension(W x L x H)	69.80 x 59.90 x 9.50 (mm)	
Operating temp.	STD. 0°C ~ 70°C / IND. -40°C ~ +85°C	Conformal coating	Option for wide temperature	
Non-operating temp.	STD. -20°C ~ +80°C / IND. -50°C ~ +95°C	Warranty	1 year	
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 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" rugged metal SATA II MLC SSD supports FE/SE

Product Picture	Capacity	0°C ~ 70°C	-40°C ~ +85°C
	8GB	SR8SF008G-JACMC-UFE(USE)	WR8SF008G-JACMC-UFE(USE)C
	16GB	SR8SF016G-JACMC-UFE(USE)	WR8SF016G-JACMC-UFE(USE)C
	32GB	SR8SF032G-JACMC-UFE(USE)	WR8SF032G-JACMC-UFE(USE)C
	64GB	SR8SF064G-JACMC-UFE(USE)	WR8SF064G-JACMC-UFE(USE)C
	128GB	SR8SF128G-JACMC-UFE(USE)	WR8SF128G-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

S R 8 S F 1 2 8 G — J A C M C — U F E

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,.....

X13 Controller grade

C : Commercial grade

X2 The material of casing

R : Rugged metal casing

X14 Flash IC

M : MLC-NAND flash IC

X3 X4 X5 Product category

8SF : 1.8" SATA II SSD

X15 Flash IC grade

C : Commercial grade

X6 X7 X8 X9 Capacity

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

016G : 16GB **128G** : 128GB

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 : JMicon (BON Series supports FE/SE)

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 MIF

MLC micro IDE Flash Module

MLC MIF

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 MIF

MLC micro IDE Flash Module

MLC MIF

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