

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
- Supports Fast Erase by Hardware and Software definition
- Performance up to 172.0MB/sec
- Supports Secure Erase by Software ATA command vendor code
- Capacity from 8GB up to 128GB

Product specifications

Compatibility	<ul style="list-style-type: none"> SATA 1.0a and SATA 2.6 specification compliance 	Power consumption	<ul style="list-style-type: none"> Power requirement +5V ± 10% Reading mode 290 mA (Max.) Writing mode 420 mA (Max.) Idle mode 160 mA (Max.)
Flash technology	<ul style="list-style-type: none"> MLC-NAND type flash based 	Physical specification	<ul style="list-style-type: none"> Weight (max.) 55 g ± 5 g / 1.94 oz. Dimension(W x L x H) 69.80 x 59.90 x 9.50 (mm)
Form-factor	<ul style="list-style-type: none"> Rugged Metal 1.8" SATA SSD 	Conformal coating	<ul style="list-style-type: none"> Option for wide temperature
Host Interface	<ul style="list-style-type: none"> Standard SATA 7 pins (data) + 15 pins (power) 	Warranty	<ul style="list-style-type: none"> 1 year
Performance	<ul style="list-style-type: none"> Data transfer rate Serial ATA Gen-I and Gen-II (1.5 Gb/s and 3.0 Gb/s) Sequential read 172.0 MB/sec (Max.) Sequential write 98.5 MB/sec (Max.) Random access time 0.2 ms 	Environmental specification	<ul style="list-style-type: none"> Operating temp. STD. 0°C ~ 70°C / WID. -40°C ~ +85°C Non-operating temp. STD. -20°C ~ +80°C / WID. -50°C ~ +95°C Humidity 10% - 95% non-condensing Vibration 15 G compliance to MIL-STD-810F Shock 1,500 G compliance to MIL-STD-810F Altitude 70,000 feet
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 Wide temperature -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

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

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

X2 The material of casing

R : Rugged metal casing

X3 X4 X5 Product category

8SF : 1.8" SATA II SSD

X6 X7 X8 X9 Capacity

008G : 8GB 064G : 64GB

016G : 16GB 128G : 128GB

032G : 32GB

X11 Controller

J : JMicon (BON Series supports FE/SE)

CF Industrial CompactFlash Card

CFast Industrial CFast Card

ATA Industrial PCMCIA ATA Card

MIF Industrial micro IDE Flash Module

MSE Industrial micro SATA Flash Module

MUM Industrial micro USB Flash Module

MPM Industrial mini PCIe Flash Module

MSM Industrial mini SATA Flash Module

SSD Industrial Solid State Disk

UED Industrial Rugged Metal USB Flash Disk

SD Industrial SD & SDHC Memory Card

AD Industrial Adapter Card-Drive

CF Industrial CompactFlash Card

CFast Industrial CFast Card

ATA Industrial PCMCIA ATA Card

MIF Industrial micro IDE Flash Module

MSE Industrial micro SATA Flash Module

MUM Industrial micro USB Flash Module

MPM Industrial mini PCIe Flash Module

MSM Industrial mini SATA Flash Module

SSD Industrial Solid State Disk

UED Industrial Rugged Metal USB Flash Disk

SD Industrial SD & SDHC Memory Card

AD Industrial Adapter Card-Drive