

BON Series

Rugged Metal 2.5" SATA II SLC SSD
supports Fast Erase and Secure Erase



Product features

- SLC - NAND type flash technology
- Extremely rugged metal casing to endure harsh environments
- Support Fast Erase by Hardware and Software definition
- Performance up to 184.3 MB/sec
- Support Secure Erase by Software command Vender 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: 320mA (Max.) Writing mode: 360mA (Max.) Idle mode: 160mA (Max.)
Flash technology	<ul style="list-style-type: none"> SLC-NAND type flash based 	Form-factor	<ul style="list-style-type: none"> Rugged Metal 2.5" SATA SSD
Host Interface	<ul style="list-style-type: none"> SATA 7-pin (data) + 15-pin (power) 	Performance	<ul style="list-style-type: none"> Data transfer rate: Serial ATA Gen-I and Gen-II (1.5Gb/s and 3.0Gb/s) Sequential read: 184.3 MB/sec (Max.) Sequential write: 153.4 MB/sec (Max.) Random access time: 0.2ms (estimated)
Environmental specification	<ul style="list-style-type: none"> 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 	Reliability	<ul style="list-style-type: none"> Wear-Leveling: Static wear-leveling algorithms MTBF: > 3,000,000 hours Endurance: > 2,000,000 cycles ECC: 8 bits or 15 bits per 512 bytes block Data retention: 10 Years
Functionalilty	<ul style="list-style-type: none"> 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 for Secure Erase Sanitizing Based on USA Air Force AFSSI 5020 for Secure Erase 	Physical specification	<ul style="list-style-type: none"> Weight: 115 g ± 5 g / 4.06 oz. Dimension(W x L x H): 69.80 x 59.90 x 9.50 (mm)
		Conformal coating	<ul style="list-style-type: none"> Option for special request
		Warranty	<ul style="list-style-type: none"> Standard grade: 3 years Industrial grade: 5 years

Operating temperature supports Standard grade 0°C ~ 70°C and Industrial grade -40°C ~ +85°C
 Part number list - 2.5" rugged metal SATA II SLC SSD supports FE/SE

Product Picture	Capacity	0° C ~ 70° C	-40° C ~ +85° C
	8GB	SR2SF008G-JACSC-UFE(USE)/(C)	WR2SF008G-JAISI-UFE(USE)/(C)
	16GB	SR2SF016G-JACSC-UFE(USE)/(C)	WR2SF016G-JAISI-UFE(USE)/(C)
	32GB	SR2SF032G-JACSC-UFE(USE)/(C)	WR2SF032G-JAISI-UFE(USE)/(C)
	64GB	SR2SF064G-JACSC-UFE(USE)/(C)	WR2SF064G-JAISI-UFE(USE)/(C)
	128GB	SR2SF128G-JACSC-UFE(USE)/(C)	WR2SF128G-JAISI-UFE(USE)/(C)

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
S	R	2	S	F	1	2	8	G	—	J	A	C	S	C	—	U	F	E	/	C

X1 ↗ Grade	X13 ↗ Controller grade
S : Standard grade operating temp. 0° C ~ 70° C	C : Commercial grade
W : Industrial grade operating temp. -40° C ~ +85° C	I : Industrial grade
X2 ↗ The material of casing	X14 ↗ Flash IC
R : Rugged metal casing	S : Samsung SLC-NAND flash IC
X3 X4 X5 ↗ Product category	X15 ↗ Flash IC grade
2SF : 2.5" SATA II SSD	C : Commercial grade
X6 X7 X8 X9 ↗ Capacity	I : Industrial grade
008G : 8GB 064G : 64GB	Z1 Z2 Z3 ↗ Special function
016G : 16GB 128G : 128GB	UFE : Hardware and software ATA command code for Fast Erase function
032G : 32GB	USE : Secure Erase procedure by project base
X11 ↗ Controller	C ↗ Reserved for specific requirement
J : JMicon (BON Series supports FE/SE)	C : Conformal-coating
X12 ↗ Controller version	
A,B,C.....	

CF Industrial CompactFlash Card

CFast Industrial CFast Card

ATA Industrial PCMCIA ATA Card

MIF Industrial micro IDE Flash Module

MSF 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

UFD 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

MSF Industrial micro SATA Flash Module

MUM Industrial micro USB Flash Module

MPM Industrial mini PCIe Flash Module

MSM Industrial mini SATA Flash Module

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