

BON-II Series

MLC 2.5" Rugged Metal SATA III SSD
Supports Fast Erase and Secure Erase



PRODUCT FEATURES


- MLC - NAND type flash technology
- 2.5" SATA SSD form-factor
- Supports Windows-7 TRIM Command
- Supports DDRIII SDRAM cache for Extreme performance
- Support power protection by Tantalum Capacitors
- Compliant with SATA 1.0a/ 2.6/ 3.0 specification
- Extremely rugged metal casing to endure harsh environments
- Maximum sequential read speed 502.8 MB/sec (Max.)
- Maximum sequential write speed 269.7 MB/sec (Max.)
- Capacity from 32GB up to 256GB
- Supports Fast Erase and Secure Erase Function

PRODUCT SPECIFICATION

Compatibility	► SATA 1.0a, SATA 2.6 and SATA 3.0 Specification compliance	Power consumption	
Flash technology	► MLC-NAND type flash based	Power requirement	► +5V ± 10%
Form-factor	► Rugged Metal 2.5" SATA SSD	Reading mode	► 257 mA (Max.)
Host Interface	► SATA 7-pin (data) + 15-pin (power)	Writing mode	► 494 mA (Max.)
Performance		Idle mode	► 127 mA (Max.)
Data transfer rate	► Serial ATA Gen-I, Gen-II and Gen-III (1.5Gb/s, 3.0Gb/s and 6.0Gb/s)	Reliability	
Sequential read	► 502.8 MB/sec (Max.)	Wear-leveling	► Static wear-leveling algorithms
Sequential write	► 269.7 MB/sec (Max.)	ECC	► 40 bits per 1024 bytes block
Random access time	► 0.1ms (estimated)	Physical specification	
Environmental specification		Weight	► 115g ± 5g /4.06 oz.
Operating temp.	► STD. 0°C~70°C/IND. -40°C~+85°C	Dimension(W x L x H)	► 69.90 x 99.70 x 9.50 (mm)
Non-operating temp.	► STD. -20°C~+80°C/IND. -50°C~+95°C	Warranty	► 2 years
Conformal coating	► Option for wide temperature		
Humidity	► 10% ~ 95% non-condensing		
Vibration	► 7 Hz to 2K Hz, 20G, 3 axes		
Shock	► 0.5ms, 1500G, 3 axes		
Altitude	► 70,000 feet		

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

Part number list - MLC 2.5" rugged metal SATA III SSD supports Fast Erase and Secure Erase

Product Picture	Capacity	0°C ~ 70°C	-40°C ~ +85°C
	32GB	SR2SR032G-JHCTM-UFE(USE)	WR2SR032G-JHCTM-UFE(USE)/C
	64GB	SR2SR064G-JHCTM-UFE(USE)	WR2SR064G-JHCTM-UFE(USE)/C
	128GB	SR2SR128G-JHCTM-UFE(USE)	WR2SR128G-JHCTM-UFE(USE)/C
	256GB	SR2SR256G-JHCTM-UFE(USE)	WR2SR256G-JHCTM-UFE(USE)/C

PART NUMBER DECODER

X1 X2 X3 X4 X5 X6 X7 X8 X9 — X11 X12 X13 X14 X15 / Z1 Z2 Z3 C

Example

W R 2 S R 2 5 6 G — J H C T M / 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

R : Rugged metal casing

X3 X4 X5 ▶ Product category

2SR : 2.5" SATA III SSD supports DDRIII SDRAM cache

X6 X7 X8 X9 ▶ Capacity

032G : 32GB **256G** : 256GB

064G : 64GB

128G : 128GB

X11 ▶ Controller

J : JMicron supports Fast Erase/Secure Erase (BON-II Series)

X12 ▶ Controller version

A, B, C, D.....

X13 ▶ Controller grade

C : Commercial grade

X14 ▶ Flash IC

T : Toshiba NAND flash IC

X15 ▶ Flash IC grade

M : MLC-NAND flash IC

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