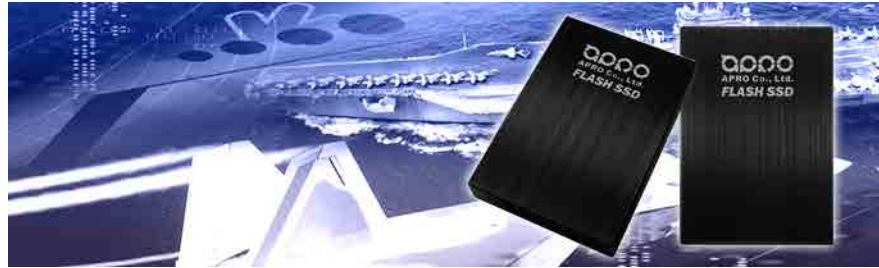


# BON Series

## Rugged Metal 2.5" PATA (IDE) 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 107.8 MB/sec
- Supports Secure Erase by Software ATA command vendor code
- Capacity from 8GB up to 256GB

### Product specifications

<b>Compatibility</b>	ATA/ATAPI-7 and True IDE mode	<b>Power consumption</b>	
<b>Flash technology</b>	MLC-NAND type flash based	Power requirement	+5V ± 10%
<b>Form-factor</b>	Rugged Metal 2.5" PATA (IDE) SSD	Reading mode	360.0 mA (Max.)
<b>Host Interface</b>	Standard 44-pin PATA (IDE) male connector	Writing mode	390.0 mA (Max.)
<b>Master/Slave setting</b>	By jumper	Idle mode	240.0 mA (Max.)
<b>Performance</b>		<b>Reliability</b>	
Data transfer mode	PIO-4 mode or UDMA-6 mode (def.)	Wear-leveling	Static wear-leveling algorithms
Sequential read	107.8 MB/sec (Max.)	ECC	8 bits or 15 bits per 512 bytes block
Sequential write	82.4 MB/sec (Max.)	<b>Physical specification</b>	
Random access time	0.2 ms	Weight (max.)	115g ± 5g /4.06 oz.
<b>Environmental specification</b>		Dimension(W x L x H)	69.90 x 99.70 x 9.50 (mm)
Operating temp.	STD. 0°C ~ 70°C / WID. -40°C ~ +85°C	<b>Conformal coating</b>	Option for wide temperature
Non-operating temp.	STD. -20°C ~ +80°C / WID. -50°C ~ +95°C	<b>Warranty</b>	1 year
Humidity	10% - 95% non-condensing		
Acoustic noise	0dB		
Vibration	15 G peak-to-peak max		
Shock	1,500 G (Max.)		
Altitude	70,000 feet		
<b>Functionalities</b>			
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 - 2.5" rugged metal PATA (IDE) MLC SSD supports FE/SE

Product Picture	Capacity	0°C ~ 70°C	-40°C ~ +85°C
	8GB	SR2IF008G-JACMC-UFE(USE)	WR2IF008G-JACMC-UFE(USE)C
	16GB	SR2IF016G-JACMC-UFE(USE)	WR2IF016G-JACMC-UFE(USE)C
	32GB	SR2IF032G-JACMC-UFE(USE)	WR2IF032G-JACMC-UFE(USE)C
	64GB	SR2IF064G-JACMC-UFE(USE)	WR2IF064G-JACMC-UFE(USE)C
	128GB	SR2IF128G-JACMC-UFE(USE)	WR2IF128G-JACMC-UFE(USE)C
	256GB	SR2IF256G-JACMC-UFE(USE)	WR2IF256G-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
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### Example

S	R	2	I	F	1	2	8	G	—	J	A	C	M	C	—	U	F	E	
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**X1** Grade

**S** : Standard grade operating temp. 0°C ~ 70°C

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

**2IF** : 2.5" PATA (IDE) SSD

**X15** Flash IC grade

**C** : Commercial grade

**X6 X7 X8 X9** Capacity

**008G** : 8GB      **064G** : 64GB

**016G** : 16GB      **128G** : 128GB

**032G** : 32GB      **256G** : 256GB

**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** : JMicron (BON Series supports FE/SE)

**C** Reserved for specific requirement

**C** : Conformal-coating

**X12** Controller version

**A,B,C.....**