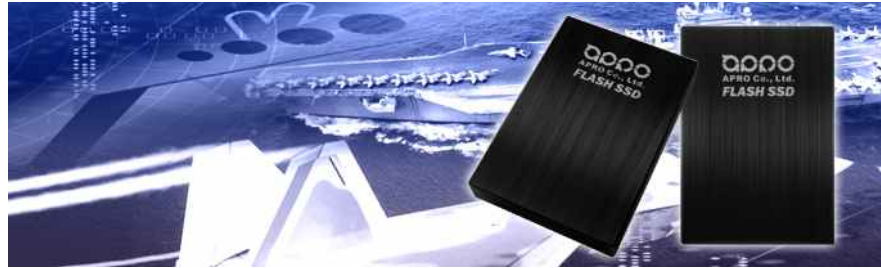


# BON Series

Rugged Metal 2.5" PATA (IDE) MLC SSD supports Fast Erase and Secure Erase



## Product features


- MLC - NAND type flash technology
- 2.5" standard PATA (IDE) SSD form-factor
- Compatible with ATA/ATAPI-7 standard
- Data transfer mode support PIO 0~4 and UDMA 0~6
- Support Fast Erase by Hardware and Software definition
- Support Secure Erase by Software ATA command vendor code
- Capacity from 8GB up to 256GB
- Performance up to 107.8MB/sec

## Product specifications

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

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		
S	R	2	I	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

**X2** The material of casing

**R** : Rugged metal casing

**X3 X4 X5** Product category

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

**X6 X7 X8 X9** Capacity

**008G** : 8GB      **064G** : 64GB

**016G** : 16GB      **128G** : 128GB

**032G** : 32GB      **256G** : 256GB

**X11** Controller

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

**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

MLC CF

MLC CompactFlash Card

MLC CFast

MLC CFast Card

MLC ATA

MLC PCMCIA ATA Card

MLC MIF

MLC micro IDE Flash Module

MLC MSE

MLC micro SATA Flash Module

MLC MUM

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