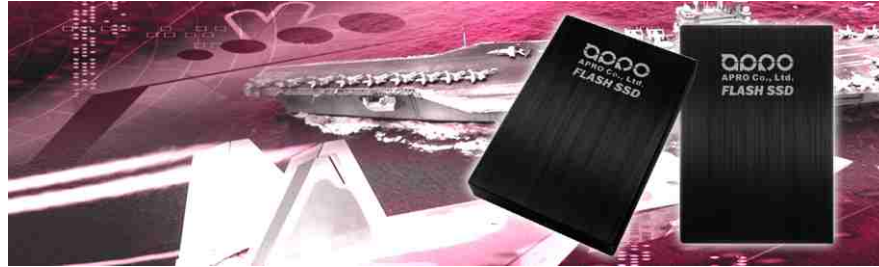


BON Series

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



Product features


- SLC - NAND type flash technology
- 2.5" standard PATA (IDE) SSD form-factor
- Extremely rugged metal casing to endure harsh environments
- Compatible with ATA/ATAPI-7 standard
- Data transfer mode support PIO 0-4 and UDMA 0-6
- Supports Fast Erase by Hardware and Software definition
- Supports Secure Erase by Software ATA command vendor code
- Capacity from 8GB up to 128GB
- Performance up to 114.2 MB/sec

Product specifications

Compatibility	ATA/ATAPI-7 and True IDE mode	Power consumption	Power requirement	+5V ± 10%
Flash technology	SLC-NAND type flash based	Reading mode	360.0 mA (Max.)	
Form-factor	Rugged Metal 2.5" PATA (IDE) SSD	Writing mode	400.0 mA (Max.)	
Host Interface	Standard 44 pins PATA (IDE) male connector	Sleeping mode	240.0 mA (Max.)	
Master/Slave setting	By jumper	Reliability		
Performance		Wear-leveling	Static wear-leveling algorithms	
Data transfer mode	PIO-4 mode or UDMA-6 mode (def.)	MTBF	> 3,000,000 hours	
Sequential read	114.2 MB/sec (Max.)	ECC	8 bits or 15 bits per 512 bytes block	
Sequential write	97.4 MB/sec (Max.)	Endurance	> 2,000,000 cycles	
Average access time	0.2 ms	Data retention	10 years	
Environmental specification		Physical specification		
Operating temp.	STD. 0°C ~ 70°C / IND. -40°C ~ +85°C	Weight (max.)	115 g ± 5 g / 4.06 oz.	
Non-operating temp.	STD. -20°C ~ +80°C / IND. -50°C ~ +95°C	Dimension(W x L x H)	69.90 x 99.70 x 9.50 (mm)	
Humidity	10% ~ 95% non-condensing	Conformal coating	Option for special request	
Acoustic noise	0dB	Warranty		
Vibration	15G peak-to-peak max	Standard grade	3 years	
Shock	1,500G (Max.)	Industrial grade	5 years	
Altitude	70,000 feet			
Functionality				
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 Industrial grade -40°C ~ +85°C

Part number list - Industrial 2.5" rugged metal PATA (IDE) SLC SSD supports FE/SE

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

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	I	F	1	2	8	G	—	J	A	C	S	C	—	U	F	E	

X1 Grade

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

W : Industrial grade operating temp. -40°C ~ +85°C

X13 Controller grade

C : Commercial grade

I : Industrial grade

X2 The material of casing

R : Rugged metal casing

X14 Flash IC

S : Samsung SLC-NAND flash IC

X3 X4 X5 Product category

2IF : 2.5" PATA (IDE) SSD

X15 Flash IC grade

C : Commercial grade

I : Industrial grade

X6 X7 X8 X9 Capacity

008G : 8GB **064G** : 64GB

016G : 16GB **128G** : 128GB

032G : 32GB

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.....

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 Module

MPM
Industrial mini PCI-e 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 Module

MPM
Industrial mini PCI-e Module

SSD
Industrial Solid State Disk

UED
Industrial Rugged Metal USB Flash Disk

SD
Industrial SD & SDHC Memory Card

AD
Industrial Adapter Card-Drive