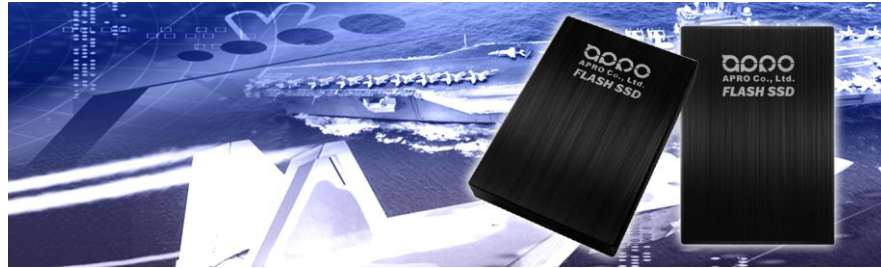


BON Series

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

| | | | | |
|------------------------------------|---|-------------------------------|--|---------------------------------|
| Compatibility | ATA/ATAPI-7 and True IDE mode | Power consumption | Power requirement | +5V ± 10% |
| Flash technology | MLC-NAND type flash based | Reading mode | 360.0 mA(Max.) | |
| Form-factor | Rugged Metal 2.5" PATA (IDE) SSD | Writing mode | 390.0 mA(Max.) | |
| Host Interface | Standard 44-pin PATA (IDE) male connector | Sleeping mode | 240.0 mA(Max.) | |
| Master/Slave setting | By jumper | Reliability | Wear-leveling | Static wear-leveling algorithms |
| Performance | | ECC | Supports BCH ECC 8 bits or 15 bits in 512bytes | |
| Data transfer mode | PIO-4 mode or UDMA-6 mode (def.) | Physical specification | Weight (max.) | 115g ± 5g /4.06 oz. |
| Sequential read | 107.8 MB/sec (Max.) | Dimension(W x L x H) | 69.90 x 99.70 x 9.50 (mm) | |
| Sequential write | 82.4 MB/sec (Max.) | Conformal coating | Option for wide temperature | |
| Average access time | 0.2ms | Warranty | 1 year | |
| Environmental specification | | | | |
| Operating temp. | STD. 0°C ~ 70°C / IND. -40°C ~ +85°C | | | |
| 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 | | | |
| 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 - 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 : JMicon (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