HERMES Series

Metal Casing 2.5” PATA (IDE) MLC SSD

APRO Co., Ltd.

Advanced Performance & Rugged Orientation

Product features

- MLC - NAND type flash technology
- 2.5" standard PATA (IDE) SSD form-factor
- Data transfer mode support PIO 0~4 and UDMA 0~6
- Compatible with ATA/ATAPI-7 standard
- Aluminum-alloy metal casing
- Performance up to 107.8MB/sec
- Capacity from 8GB up to 256GB

Product specifications

Compatibility	ATA/ATAPI-7 and True IDE mode
Flash technology	MLC-NAND type flash based
Form-factor	Metal 2.5" PATA (IDE) SSD
Host Interface	Standard 44-pin PATA (IDE) male connector
Master/Slave setting	By jumper
Performance	
Data transfer rate	PIO-4 mode or UDMA-6 mode (def.)
Sequential read	107.8 MB/sec (Max.)
Sequential write	82.4 MB/sec (Max.)
Average access time	0.2ms
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
Vibration	15G peak-to-peak max
Shock	1,500G Max.
Altitude	70,000 feet
Acoustic noise	0 dB

Power consumption	
Power requirement	+5V ± 10%
Reading mode	360mA (Max.)
Writing mode	390mA (Max.)
Sleeping mode	240mA (Max.)
Reliability	
Wear-leveling	Static wear-leveling algorithms
ECC	Supports BCH ECC 8 bits or 15 bits in 512bytes
Endurance	Greater than 100,000 Program /Erase cycles
Physical specification	
Weight (max.)	115g ± 5g /4.06 oz.
Dimension(W x L x H)	69.90 x 99.95 x 9.40 (mm)
Conformal coating	Option for wide temperature
Warranty	
Standard grade	1 year
Industrial grade	3 years

Operating temperature supports Standard grade 0˚C ~ 70˚C and Industrial grade -40˚C ~ +85˚C

Part number list - 2.5” metal casing PATA (IDE) MLC SSD

Product Picture	Capacity	0˚C ~ 70˚C	-40˚C ~ +85˚C
	8GB	SM2IF008G-JACMC-U	WM2IF008G-JACMC-U/C
	16GB	SM2IF016G-JACMC-U	WM2IF016G-JACMC-U/C
	32GB	SM2IF032G-JACMC-U	WM2IF032G-JACMC-U/C
	64GB	SM2IF064G-JACMC-U	WM2IF064G-JACMC-U/C
	128GB	SM2IF128G-JACMC-U	WM2IF128G-JACMC-U/C
	256GB	SM2IF256G-JACMC-U	WM2IF256G-JACMC-U/C

Remarks:

U: defaulted as UDMA mode / Fixed disk type

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	—	X16	/	C				

Example

S	M	2	I	F	1	2	8	G	—	J	A	C	M	C	—	U						

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

M : 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 (HERMES Series)

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

X16 : Data transfer rate and disk type

U : defaulted as UDMA mode / Fixed disk type

C : Reserved for specific requirement

C : Conformal-coating