HERMES Series

Rugged Metal 2.5" SATA II MLC SSD

APRO Co., Ltd.

Advanced Performance & Rugged Orientation

Product features

- MLC - NAND type flash technology
- 2.5" SATA SSD form-factor
- SATA 1.0a and SATA 2.6 specification compliance
- SATA 7-pin (data) + 15-pin (power connector)
- Performance up to 167.8MB/sec
- Capacity from 8GB up to 256GB
- Include USB 2.0 Mini-B type connector to be an external hard drive solution

Product specifications

Compatibility — SATA 1.0a and SATA 2.6 specification compliance

Flash technology — MLC-NAND type flash based

Form-factor — Rugged metal 2.5" SATA SSD

Host Interface — SATA 7-pin (data) + 15-pin (power)

Include USB 2.0 Mini-B type connector to be an external hard drive solution

Performance

Data transfer rate	Serial ATA Gen-I and Gen-II (1.5Gb/s and 3.0Gb/s)
Sequential read	167.8 MB/sec (Max.)
Sequential write	92.1 MB/sec (Max.)
Average access time	0.2ms (estimated)

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

Power consumption

Power requirement	+5V ± 10%
Reading mode	450mA (Max.)
Writing mode	500mA (Max.)
Sleeping mode	320mA (Max.)

Reliability

Wear-leveling	Static wear-leveling algorithms
ECC	8 bits or 15 bits per 512 bytes block

Physical specification

Weight (max.)	115g ± 5g /4.06 oz.
Dimension(W x L x H)	69.90 x 99.70 x 9.50 (mm)
Conformal coating	Option for wide temperature
Warranty	1 year

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

Part number list - 2.5" rugged metal SATA II MLC SSD

Product Picture	Capacity	0˚C ~ 70˚C	-40˚C ~ +85˚C
	8GB	SR2SF008G-JACMC	WR2SF008G-JACMC/C
	16GB	SR2SF016G-JACMC	WR2SF016G-JACMC/C
	32GB	SR2SF032G-JACMC	WR2SF032G-JACMC/C
	64GB	SR2SF064G-JACMC	WR2SF064G-JACMC/C
	128GB	SR2SF128G-JACMC	WR2SF128G-JACMC/C
	256GB	SR2SF256G-JACMC	WR2SF256G-JACMC/C

Remarks:

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	/	C					

Example

S	R	2	S	F	1	2	8	G	—	J	A	C	M	C							

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

2SF : 2.5" SATA II 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

C ▸ Reserved for specific requirement

C : Conformal-coating