HERMES Series

Industrial Rugged Metal 1.8" SATA II SLC SSD

APRO Co., Ltd.
Advanced Performance & Rugged Orientation

Product features

- SLC - NAND type flash technology
- 1.8" SATA SSD form-factor
- Extremely rugged metal casing to endure harsh environments
- Maximum sequential read speed 184.2 MB/sec
- Maximum sequential write speed 153.3 MB/sec
- Capacity from 8GB up to 64GB

Product specifications

Compatibility	SATA 1.0a and SATA 2.6 specification compliance
Flash technology	SLC-NAND type flash based
Form-factor	Rugged Metal 1.8" SATA SSD
Host Interface	Standard SATA 7 pins (data) + 15 pins (power)

Performance

Data transfer rate	Serial ATA Gen-I (1.5Gbits) and Gen-II (3.0Gbits)
Sequential read	184.2 MB/sec (Max.)
Sequential write	153.3 MB/sec (Max.)
Random access time	0.2 ms

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	15 G compliance to MIL-STD-810F
Shock	1,500 G compliance to MIL-STD-810F
Altitude	70,000 feet
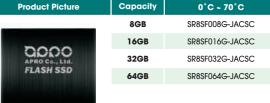
Power consumption

Power requirement	+5V ± 10%
Reading mode	280.0 mA (Max.)
Writing mode	340.0 mA (Max.)
Idle mode	150.0 mA (Max.)

Reliability

Wear-leveling	Static wear-leveling algorithms
MTBF	> 3,000,000 hours
ECC	8 bits or 15 bits per 512 bytes block
Endurance	> 2,000,000 cycles
Data retention	10 years

Physical specification

Weight (max.)	55 g ± 5 g / 1.94 oz.
Dimension(W x L x H)	69.80 x 59.90 x 9.50 (mm)
Conformal coating	Option for special request

Warranty

Standard grade	3 years
Industrial grade	5 years

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

Part number list - Industrial 1.8" rugged metal SATA II SLC SSD

Product Picture	Capacity	0˚C ~ 70˚C	-40˚C ~ +85˚C
	8GB	SR8SF008G-JACSC	WR8SF008G-JAISI
	16GB	SR8SF016G-JACSC	WR8SF016G-JAISI
	32GB	SR8SF032G-JACSC	WR8SF032G-JAISI
	64GB	SR8SF064G-JACSC	WR8SF064G-JAISI

Part number decoder

X1	X2	X3	X4	X5	X6	X7	X8	X9	—	X11	X12	X13	X14	X15	—	C			

Example

S	R	8	S	F	0	6	4	G	—	J	A	C	S	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
8SF : 1.8" SATA II SSD

X6 X7 X8 X9 ▸ Capacity
008G : 8GB   032G : 32GB
016G : 16GB   064G : 64GB

X11 ▸ Controller
J : JMicron (HERMES Series)

X12 ▸ Controller version
A,B,C.....

X13 ▸ Controller grade
C : Commercial grade
I : Industrial grade

X14 ▸ Flash IC
S : Samsung SLC-NAND flash IC

X15 ▸ Flash IC grade
C : Commercial grade
I : Industrial grade

C ▸ Reserved for specific requirement
C : Conformal-coating