HERMES Series

Industrial Rugged Metal 2.5" PATA (IDE) SLC SSD

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
- Capacity from 8GB up to 128GB
- Performance up to 105MB/sec

Product specifications

Compatibility	ATA/ATAPI-7 and True IDE mode
Flash technology	SLC-NAND type flash based
Form-factor	Rugged Metal 2.5" PATA (IDE) SSD
Host Interface	Standard 44-pin PATA (IDE) male connector
Master/Slave setting	By jumper
Performance	
Data transfer mode	PIO-4 mode or UDMA-6 mode (def.)
Sequential read	105.0 MB/sec (Max.)
Sequential write	100.0 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
Acoustic noise	0dB
Vibration	15G peak-to-peak max
Shock	1,500G (Max.)
Altitude	70,000 feet

Power consumption	
Power requirement	+5V ± 10%
Reading mode	360.0 mA(Max.)
Writing mode	390.0 mA(Max.)
Sleeping mode	240.0 mA(Max.)
Reliability	
Wear-leveling	Static wear-leveling algorithms
MTBF	> 3,000,000 times
ECC	Supports BCH ECC 8 bits or 15 bits in 512bytes
Endurance	> 2,000,000 cycles
Data retention	10 years
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 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 2.5" rugged metal PATA (IDE) SLC SSD

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

Remarks:

U: defaulted as UDMA mode / Fixed disk type

Part number decoder

X1	X2	X3	X4	X5	X6	X7	X8	X9	—	X11	X12	X13	X14	X15	—	Z1	/	C		

Example

S	R	2	I	F	1	2	8	G	—	J	A	C	S	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

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

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

Z1 : Data transfer rate and disk type

U: defaulted as UDMA mode / Fixed disk type

C : Reserved for specific requirement

C : Conformal-coating