

HERMIT-A Series

Industrial 2.5" Rugged Metal PATA SLC SSD



PRODUCT FEATURES


- ▶ SLC - NAND type flash technology
- ▶ 2.5" standard PATA (IDE) SSD form-factor
- ▶ Compatible with ATA/ATAPI-6 standard
- ▶ Performance up to 36.4MB/sec
- ▶ S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology) Function and monitor software supported.
- ▶ Extremely rugged metal casing to endure harsh environments
- ▶ Capacity from 128MB up to 8GB

PRODUCT SPECIFICATION

Compatibility	▶ ATA/ATAPI-6 and True IDE mode	Power consumption	
Flash technology	▶ SLC-NAND type flash based	Power requirement	▶ +5V ± 10%
Form-factor	▶ Rugged Metal 2.5" PATA (IDE) SSD	Reading mode	▶ 124mA (Max.)
Host Interface	▶ Standard 44-pin PATA (IDE) Male connector	Writing mode	▶ 121mA (Max.)
Master/Slave	▶ By jumper	Idle mode	▶ 1.8mA (Max.)
Data transfer rate	▶ PIO 0 ~ 4 Mode	Reliability	
	▶ MWDMA 0 ~ 2 Mode	Wear-leveling	▶ Static wear-leveling algorithms
	▶ UDMA 0 ~ 4 Mode	MTBF	▶ > 3,000,000 hours
Performance		Endurance	▶ > 2,000,000 cycles
Sequential read	▶ 36.4 MB/sec (Max. / dual CH.)	ECC	▶ 4 bits per 512 bytes block
Sequential write	▶ 26.5 MB/sec (Max. / dual CH.)	Data retention	▶ 10 Years
Random access time	▶ 0.2ms (estimated)	Physical specification	
Environmental specification		Weight	▶ 110g ± 2g / 3.88 oz.
Operating temp.	▶ STD. 0°C~70°C/IND. -40°C~+85°C	Dimension(W x L x H)	▶ 69.90 x 99.70 x 9.50 (mm)
Non-operating temp.	▶ STD. -20°C~+80°C/IND. -50°C~+95°C	Conformal coating	▶ Option for special request
Humidity	▶ 10% ~ 95% non-condensing	Warranty	
Vibration	▶ 15G compliance to MIL-STD-810F	Standard grade	▶ 3 years
Shock	▶ 1,500G compliance to MIL-STD-810F	Industrial grade	▶ 5 years
Altitude	▶ 70,000 feet		

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		0°C ~ 70°C	-40°C ~ +85°C
	128MB	SR2IF128M-HACTC-U(/C)	WR2IF128M-HAITI-U(/C)
	256MB	SR2IF256M-HACTC-U(/C)	WR2IF256M-HAITI-U(/C)
	512MB	SR2IF512M-HACTC-U(/C)	WR2IF512M-HAITI-U(/C)
	1GB	SR2IF001G-HACTC-U(/C)	WR2IF001G-HAITI-U(/C)
	2GB	SR2IF002G-HACTC-U(/C)	WR2IF002G-HAITI-U(/C)
	4GB	SR2IF004G-HACTC-U(/C)	WR2IF004G-HAITI-U(/C)
	8GB	SR2IF008G-HACTC-U(/C)	WR2IF008G-HAITI-U(/C)

Remarks:

P: optional as PIO-4 mode / Fixed disk type

U: defaulted as UDMA-4 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 5 1 2 M — H A C T C / U / 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**

2IF : 2.5" PATA (IDE) SSD

X6 X7 X8 X9 ▶ **Capacity**

128M : 128MB **002G** : 2GB

256M : 256MB **004G** : 4GB

512M : 512MB **008G** : 8GB

001G : 1GB

X11 ▶ **Controller**

H : Hyperstone (HERMIT Series)

X12 ▶ **Controller version**

A, B, C, D,.....

X13 ▶ **Controller grade**

C : Commercial grade

I : Industrial grade

X14 ▶ **Flash IC**

T : Toshiba 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-4 mode / Fixed disk type

C ▶ **Reserved for specific requirement**

C : Conformal-coating