

HERMIT Series

Industrial Rugged Metal 2.5" PATA (IDE) SLC SSD
Support S.M.R.T. Function



Product features

- SLC - NAND type flash technology
- 2.5" standard PATA (IDE) SSD form-factor
- Compatible with ATA/ATAPI-6 standard
- Performance up to 40.0MB/sec
- SMART (Self-Monitoring, Analysis and Reporting Technology) Function and monitor software supported.
- Extremely rugged metal casing to endure harsh environments
- Capacity from 128MB up to 16GB

Product specifications

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 MWDM 0 ~ 2 Mode UDMA 0 ~ 4 Mode	Reliability	
Performance		Wear-leveling	Static wear-leveling algorithms
Sequential read	40.0 MB/sec (Max. / dual CH.)	MTBF	> 3,000,000 hours
Sequential write	20.0 MB/sec (Max. / dual CH.)	Endurance	> 2,000,000 cycles
Random access time	0.2ms (estimated)	ECC	4 bits per 512 bytes block
Environmental specification		Physical specification	
Operating temp.	STD. 0°C~70°C/W.T. -40°C~+85°C	Weight	110g ± 2g / 3.88 oz.
Non-operating temp.	STD. -20°C~+80°C/W.T. -50°C~+95°C	Dimension(W x L x H)	69.90 x 99.70 x 9.50 (mm)
Humidity	10% ~ 95% non-condensing	Conformal coating	Option for special request
Vibration	15G compliance to MIL-STD-810F	Warranty	
Shock	1,500G compliance to MIL-STD-810F	Standard grade	3 years
Altitude	70,000 feet	Industrial grade	5 years

Advanced Performance & Rugged Orientation

APRO Co., Ltd.

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
	128MB	SR2IF128M-HACSCN-U(/C)	WR2IF128M-HAISIN-U(/C)
	256MB	SR2IF256M-HACSCN-U(/C)	WR2IF256M-HAISIN-U(/C)
	512MB	SR2IF512M-HACSCN-U(/C)	WR2IF512M-HAISIN-U(/C)
	1GB	SR2IF001G-HACSCN-U(/C)	WR2IF001G-HAISIN-U(/C)
	2GB	SR2IF002G-HACSCN-U(/C)	WR2IF002G-HAISIN-U(/C)
	4GB	SR2IF004G-HACSCN-U(/C)	WR2IF004G-HAISIN-U(/C)
	8GB	SR2IF008G-HACSCN-U(/C)	WR2IF008G-HAISIN-U(/C)
	16GB	SR2IF016G-HACMC-U(/C)	WR2IF016G-HAIMH-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	X16	—	Z1	/	C
S	R	2	I	F	5	1	2	M	—	H	A	C	S	C	N	—	U	/	C

Example

X1 ➤ Grade
S : Standard grade operating temp. 0°C~70°C
W : Industrial grade operating temp. -40°C ~ +85°C

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

X2 ➤ The material of casing
R : Rugged metal casing

X14 ➤ Flash IC
S : Samsung SLC-NAND flash IC
M : Micron SLC-NAND flash IC

X3 **X4** **X5** ➤ Product category
2IF : 2.5" PATA (IDE) SSD

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

X6 **X7** **X8** **X9** ➤ Capacity
128M : 128MB 002G : 2GB
256M : 256MB 004G : 4GB
512M : 512MB 008G : 8GB
001G : 1GB 016G : 16GB

X16 ➤ Generation of Flash IC
N : New generation Flash IC

X11 ➤ Controller
H : Hyperstone (HERMIT Series)

Z1 ➤ Data transfer rate and disk type
U : defaulted as UDMA-4 mode / Fixed disk type

X12 ➤ Controller version
A,B,C.....

C ➤ Reserved for specific requirement
C : Conformal-coating

CF
Industrial
CompactFlash
Card

CFast
Industrial
CFast Card

ATA
Industrial
PCMCIA ATA
Card

MIF
Industrial
micro IDE Flash
Module

MSF
Industrial
micro SATA Flash
Module

MUM
Industrial
micro USB Flash
Module

MPM
Industrial
mini PCI-e Flash
Module

MSM
Industrial
mini SATA Flash
Module

SSD
Industrial
Solid State
Disk

UFD
Industrial
Rugged Metal
USB Flash Disk

SD
Industrial
SD & SDHC
Memory Card

AD
Industrial
Adapter
Card-Drive

CF
Industrial
CompactFlash
Card

CFast
Industrial
CFast Card

ATA
Industrial
PCMCIA ATA
Card

MIF
Industrial
micro IDE Flash
Module

MSF
Industrial
micro SATA Flash
Module

MUM
Industrial
micro USB Flash
Module

MPM
Industrial
mini PCI-e Flash
Module

MSM
Industrial
mini SATA Flash
Module

SSD
Industrial
Solid State
Disk

UFD
Industrial
Rugged Metal
USB Flash Disk

SD
Industrial
SD & SDHC
Memory Card

AD
Industrial
Adapter
Card-Drive