

HERMES Series

Industrial 1.8" PATA ZIF SLC SSD



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 Module

SSD
Industrial Solid State Disk

USB
Industrial Rugged Metal USB Flash Disk

SD
Industrial SD & SDHC Memory Card

AD
Industrial Adapter Card-Drive



Product features

- ❑ 1.8" SSD form-factor in 5 mm height
- ❑ SLC - NAND type flash technology
- ❑ Parallel ATA interface
- ❑ ZIF connector
- ❑ Compatible with ATA/ATAPI-7
- ❑ Support true IDE mode
- ❑ Performance up to 93.5 MB/sec
- ❑ Capacity from 4GB up to 32GB

Product specifications

Compatibility ❑ ATA/ATAPI-7 and true IDE mode

Flash technology ❑ SLC-NAND type flash based

Form-factor ❑ 1.8" SSD

Host Interface ❑ Parallel ATA / ZIF connector

Performance

Data transfer rate ❑ PIO-4 and UDMA-6

Sequential read ❑ 93.5 MB/sec (Max.)

Sequential write ❑ 82 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. -55°C ~ +95°C

Humidity ❑ 10% ~ 95%

Power consumption

Power requirement ❑ +3.3V ± 5%

Reading mode ❑ 500mA (Max.)

Writing mode ❑ 550mA (Max.)

Sleeping mode ❑ 300mA (Max.)

Reliability

Wear-leveling ❑ Supports enhanced static wear-leveling algorithms

MTBF ❑ 2,000,000 hours

ECC ❑ Support BCH ECC 8 bits or 15 bits in 512 bytes

Endurance ❑ 2,000,000 cycles

Data retention ❑ 10 years

Power cycles ❑ Up to 3,000 loops passed

Physical specification

Weight (max.) ❑ 29.0 g ± 2 g / 1.03 oz.

Dimension(W x L x H) ❑ 54.00 x 71.00 x 5.00 (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" PATA ZIF SLC SSD

Product Picture	Capacity	0°C ~ 70°C	-40°C ~ +85°C
	4GB	SP8ZF004G-JACSC-U	WP8ZF004G-JAISI-U
	8GB	SP8ZF008G-JACSC-U	WP8ZF008G-JAISI-U
	16GB	SP8ZF016G-JACSC-U	WP8ZF016G-JAISI-U
	32GB	SP8ZF032G-JACSC-U	WP8ZF032G-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		
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Example

S	P	8	Z	F	0	0	4	G	—	J	A	C	S	C	—	U	/	C		
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X1 ⇨ **Grade**

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

X2 ⇨ **The material of frame kit**

P : Plastic frame kit

X3 **X4** **X5** ⇨ **Product category**

8ZF : 1.8" PATA ZIF SSD

X6 **X7** **X8** **X9** ⇨ **Capacity**

004G : 4GB
008G : 8GB
016G : 16GB
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

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