

HERMES Series

Industrial 1.8" PATA ZIF SLC SSD



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
- Supports 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	Reliability	
Flash technology	➤ SLC-NAND type flash based	Wear-leveling	➤ Static wear-leveling algorithms
Form-factor	➤ 1.8" SSD	MTBF	➤ 2,000,000 hours
Host Interface	➤ Parallel ATA / ZIF connector	ECC	➤ 8 bits or 15 bits in 512 bytes
Performance		Endurance	➤ 2,000,000 cycles
Data transfer rate	➤ PIO-4 and UDMA-6	Data retention	➤ 10 years
Sequential read	➤ 93.5 MB/sec (Max.)	Power cycles	➤ Up to 3,000 loops passed
Sequential write	➤ 82 MB/sec (Max.)	Physical specification	
Average access time	➤ 0.2 ms	Weight (max.)	➤ 29.0 g ± 2 g / 1.03 oz.
Environmental specification		Dimension(W x L x H)	➤ 54.00 x 71.00 x 5.00 (mm)
Operating temp.	➤ STD. 0°C ~ 70°C / IND. -40°C ~ +85°C	Conformal coating	➤ Option for special request
Non-operating temp.	➤ STD. -20°C ~ +80°C / IND. -50°C ~ +95°C	Warranty	
Humidity	➤ 10% ~ 95% non-condensing	Standard grade	➤ 3 years
Power consumption		Industrial grade	➤ 5 years
Power requirement	➤ +3.3V ± 5%		
Reading mode	➤ 500 mA (Max.)		
Writing mode	➤ 550 mA (Max.)		
Sleeping mode	➤ 300 mA (Max.)		

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

Example

S P 8 Z F 0 0 4 G — J A C S C — U / C

X1 ➤ Grade

S : Standard grade operating temp. 0°C ~ 70°C

W : Industrial grade operating temp. -40°C ~ +85°C

X12 ➤ Controller version

A,B,C,....

X2 ➤ The material of frame kit

P : Plastic frame kit

X13 ➤ Controller grade

C : Commercial grade

I : Industrial grade

X3 X4 X5 ➤ Product category

8ZF : 1.8" PATA ZIF SSD

X14 ➤ Flash IC

S : Samsung SLC-NAND flash IC

X6 X7 X8 X9 ➤ Capacity

004G : 4GB

008G : 8GB

016G : 16GB

032G : 32GB

X15 ➤ Flash IC grade

C : Commercial grade

I : Industrial grade

X11 ➤ Controller

J : JMicron (HERMES Series)

Z1 ➤ Data transfer rate and disk type

U : defaulted as UDMA mode / fixed disk type

C ➤ Reserved for specific requirement

C : Conformal-coating