

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.) | | |
| Idle 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