

# HERMES Series

## Industrial Rugged Metal 2.5" PATA (IDE) SLC SSD



### Product features

- SLC - NAND type flash technology
- 2.5" standard PATA (IDE) SSD form-factor
- Extremely rugged metal casing to endure harsh Environments
- Compatible with ATA/ATAPI-7 standard
- Data transfer mode support PIO 0~4 and UDMA 0~6
- Capacity from 8GB up to 128GB
- Performance up to 114.2 MB/sec

### Product specifications

|                                    |  |                               |                                       |
|------------------------------------|--|-------------------------------|---------------------------------------|
| <b>Compatibility</b>               | ATA/ATAPI-7 and True IDE mode              | <b>Power consumption</b>      |                                       |
| <b>Flash technology</b>            | SLC-NAND type flash based                  | <b>Power requirement</b>      | +5V ± 10%                             |
| <b>Form-factor</b>                 | Rugged Metal 2.5" PATA (IDE) SSD           | <b>Reading mode</b>           | 360.0 mA (Max.)                       |
| <b>Host Interface</b>              | Standard 44 pins PATA (IDE) male connector | <b>Writing mode</b>           | 400.0 mA (Max.)                       |
| <b>Master/Slave setting</b>        | By jumper                                  | <b>Sleeping mode</b>          | 240.0 mA (Max.)                       |
| <b>Performance</b>                 |  | <b>Reliability</b>            |                                       |
| <b>Data transfer mode</b>          | PIO-4 mode or UDMA-6 mode (def.)           | <b>Wear-leveling</b>          | Static wear-leveling algorithms       |
| <b>Sequential read</b>             | 114.2 MB/sec (Max.)                        | <b>MTBF</b>                   | > 3,000,000 times                     |
| <b>Sequential write</b>            | 97.4 MB/sec (Max.)                         | <b>ECC</b>                    | 8 bits or 15 bits per 512 bytes block |
| <b>Average access time</b>         | 0.2 ms                                     | <b>Endurance</b>              | > 2,000,000 cycles                    |
| <b>Environmental specification</b> |  | <b>Data retention</b>         | 10 years                              |
| <b>Operating temp.</b>             | STD. 0°C ~ 70°C / IND. -40°C ~ +85°C       | <b>Physical specification</b> |                                       |
| <b>Non-operating temp.</b>         | STD. -20°C ~ +80°C / IND. -50°C ~ +95°C    | <b>Weight (max.)</b>          | 115 g ± 5 g / 4.06 oz.                |
| <b>Humidity</b>                    | 10% ~ 95% non-condensing                   | <b>Dimension(W x L x H)</b>   | 69.90 x 99.70 x 9.50 (mm)             |
| <b>Acoustic noise</b>              | 0dB  | <b>Conformal coating</b>      | Option for special request            |
| <b>Vibration</b>                   | 15G peak-to-peak max                       | <b>Warranty</b>               |                                       |
| <b>Shock</b>                       | 1,500G (Max.)                              | <b>Standard grade</b>         | 3 years                               |
| <b>Altitude</b>                    | 70,000 feet                                | <b>Industrial grade</b>       | 5 years                               |

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     |
|-----------------|----------|-------------------|-------------------|
|                 | 8GB      | SR2IF008G-JACSC-U | WR2IF008G-JAISI-U |
|                 | 16GB     | SR2IF016G-JACSC-U | WR2IF016G-JAISI-U |
|                 | 32GB     | SR2IF032G-JACSC-U | WR2IF032G-JAISI-U |
|                 | 64GB     | SR2IF064G-JACSC-U | WR2IF064G-JAISI-U |
|                 | 128GB    | SR2IF128G-JACSC-U | WR2IF128G-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 | R | 2 | I | F | 1 | 2 | 8 | G | — | J | A | C | S | C | — | U |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|

### 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

### 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

008G : 8GB      064G : 64GB

016G : 16GB      128G : 128GB

032G : 32GB

### Z1 Data transfer rate and disk type

U: defaulted as UDMA mode / Fixed disk type

### X11 Controller

J : JMicron (HERMES Series)

### C Reserved for specific requirement

C : Conformal-coating

### X12 Controller version

A,B,C.....