

# HERMES-F Series

## Industrial 2.5" Rugged Metal SATA III SLC SSD



### PRODUCT FEATURES


- ▶ SLC - NAND type flash technology
- ▶ 2.5" SATA SSD form-factor
- ▶ Compliance with SATA 1.0a/2.6/3.0 Specification
- ▶ SATA 7-pin (data) + 15-pin (power connector)
- ▶ Extremely rugged metal casing to endure harsh environments
- ▶ Performance up to 536.8 MB/sec
- ▶ Capacity from 8GB up to 256GB

### PRODUCT SPECIFICATION

<b>Compatibility</b>	▶ SATA 1.0a, SATA 2.6 and SATA 3.0 Specification compliance	<b>Power consumption</b>	Power requirement ▶ +5V ± 10%
<b>Flash technology</b>	▶ SLC-NAND type flash based	Reading mode	▶ 482mA (Max.)
<b>Form-factor</b>	▶ Rugged Metal 2.5" SATA SSD	Writing mode	▶ 546mA (Max.)
<b>Host Interface</b>	▶ SATA 7-pin (data) + 15-pin (power)	Idle mode	▶ 145mA (Max.)
<b>Performance</b>		<b>Reliability</b>	
Data transfer rate	▶ Serial ATA Gen-I, Gen-II and Gen-III (1.5Gb/s, 3.0Gb/s and 6.0Gb/s)	Wear-leveling	▶ Static wear-leveling algorithms
Sequential read	▶ 536.8 MB/sec (Max.)	MTBF	▶ >3,000,000 hours
Sequential write	▶ 466.2 MB/sec (Max.)	Endurance	▶ > 2,000,000 cycles
Random access time	▶ 0.2ms (estimated)	ECC	▶ 40 bits or 15 bits per 1024 bytes block
<b>Environmental specification</b>		Data retention	▶ 10 Years
Operating temp.	▶ STD. 0°C~70°C/IND. -40°C~+85°C	<b>Physical specification</b>	
Non-operating temp.	▶ STD. -20°C~+80°C/IND. -50°C~+95°C	Weight	▶ 115 g ± 5 g / 4.06 oz.
Humidity	▶ 10% ~ 95% non-condensing	Dimension(W x L x H)	▶ 69.90 x 99.70 x 9.50 (mm)
Vibration	▶ 7 Hz to 2K Hz, 20G, 3 axes	<b>Conformal coating</b>	▶ Option for special request
Shock	▶ 0.5ms, 1500G, 3 axes	<b>Warranty</b>	
Altitude	▶ 70,000 feet	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 - 2.5" rugged metal SATA III SLC SSD

Product Picture	Capacity	0°C ~ 70°C	-40°C ~ +85°C
	<b>8GB</b>	SR2SF008G-JFCTC(/C)	WR2SF008G-JFITI(/C)
	<b>16GB</b>	SR2SF016G-JFCTC(/C)	WR2SF016G-JFITI(/C)
	<b>32GB</b>	SR2SF032G-JFCTC(/C)	WR2SF032G-JFITI(/C)
	<b>64GB</b>	SR2SF064G-JFCTC(/C)	WR2SF064G-JFITI(/C)
	<b>128GB</b>	SR2SF128G-JFCTC(/C)	WR2SF128G-JFITI(/C)
	<b>256GB</b>	SR2SF256G-JFCTC(/C)	WR2SF256G-JFITI(/C)

## PART NUMBER DECODER

X1 X2 X3 X4 X5 X6 X7 X8 X9 — X11 X12 X13 X14 X15 / C

### Example

**S R 2 S F 1 2 8 G — J F C T C / C**

#### X1 ▶ Grade

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

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

#### X2 ▶ The material of casing

**R** : Rugged metal casing

#### X3 X4 X5 ▶ Product category

**2SF** : 2.5" SATA III SSD

#### X6 X7 X8 X9 ▶ Capacity

**008G** : 8GB      **064G** : 64GB

**016G** : 16GB    **128G** : 128GB

**032G** : 32GB    **256G** : 256GB

#### X11 ▶ Controller

**J** : JMicron (HERMES-F Series)

#### X12 ▶ Controller version

**A, B, C, D,....**

#### X13 ▶ Controller grade

**C** : Commercial grade

**I** : Industrial grade

#### X14 ▶ Flash IC

**T** : Toshiba SLC-NAND flash IC

#### X15 ▶ Flash IC grade

**C** : Commercial grade

**I** : Industrial grade

#### C ▶ Reserved for specific requirement

**C** : Conformal-coating