

# HERMES-F Series

## MLC 2.5" Rugged Metal SATA III SSD



### PRODUCT FEATURES


- ▶ MLC - NAND type flash technology
- ▶ 2.5" SATA SSD form-factor
- ▶ Supports Windows-7 TRIM Command
- ▶ Extremely rugged metal casing to endure harsh environments
- ▶ Maximum sequential read speed 470 MB/sec ( Max.)
- ▶ Maximum sequential write speed 260 MB/sec ( Max.)
- ▶ 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>	
<b>Flash technology</b>	▶ MLC-NAND type flash based	Power requirement	▶ +5V ± 10%
<b>Form-factor</b>	▶ Rugged Metal 2.5" SATA SSD	Reading mode	▶ 160 mA (Max.)
<b>Host Interface</b>	▶ SATA 7-pin (data) + 15-pin (power)	Writing mode	▶ 420 mA (Max.)
<b>Performance</b>		Idle mode	▶ 80 mA (Max.)
Data transfer rate	▶ Serial ATA Gen-I, Gen-II and Gen-III (1.5Gb/s, 3.0Gb/s and 6.0Gb/s )	<b>Reliability</b>	
Sequential read	▶ 470 MB/sec (Max.)	Wear-leveling	▶ Static wear-leveling algorithms
Sequential write	▶ 260 MB/sec (Max.)	ECC	▶ 40 bits per 1024 bytes block
Random access time	▶ 0.2ms (estimated)	<b>Physical specification</b>	
<b>Environmental specification</b>		Weight	▶ 115g ± 5g /4.06 oz.
Operating temp.	▶ STD. 0°C~70°C/W.T. -40°C~+85°C	Dimension(W x L x H)	▶ 69.90 x 99.70 x 9.50 (mm)
Non-operating temp.	▶ STD. -20°C~+80°C/W.T. -50°C~+95°C	<b>Warranty</b>	▶ 2 years
<b>Conformal coating</b>	▶ Option for wide temperature		
Humidity	▶ 10% ~ 95% non-condensing		
Vibration	▶ 7 Hz to 2K Hz, 20G, 3 axes		
Shock	▶ 0.5ms, 1500G, 3 axes		
Altitude	▶ 70,000 feet		

Operating temperature supports Standard grade 0 °C ~ 70 °C and Wide temp. Grade -40 °C ~ +85 °C

Part number list - 2.5" rugged metal SATA III MLC SSD

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

### Remarks:

Wide temperature grade -40°C ~ +85°C with special conformal coating treatment on PCBA.

## PART NUMBER DECODER

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

### Example

W R 2 S F 1 2 8 G — J F C T M / C

X1 ▶ **Grade**

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

**W** : Wide temp. 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

X14 ▶ **Flash IC**

**T** : Toshiba NAND flash IC

X15 ▶ **Flash IC grade**

**M** : MLC NAND flash IC

C ▶ **Reserved for specific requirement**

**C** : Conformal-coating