

# HERMES Series

## MLC 1.8" SATA II SSD Rugged Metal Casing



### Product features

- ✦ MLC - NAND type flash technology
- ✦ Maximum sequential read speed 172.0MB/sec
- ✦ Maximum sequential write speed 98.5MB/sec
- ✦ 1.8" SATA SSD form-factor
- ✦ Extremely rugged metal casing to endure harsh environments
- ✦ Capacity from 8GB up to 128GB

### Product specifications

<b>Compatibility</b>	✦ SATA 1.0a and SATA 2.6 Specification compliance	<b>Power consumption</b>	Power requirement ✦ +5V ± 10%
<b>Flash technology</b>	✦ MLC-NAND type flash based	Reading mode	✦ 290mA (Max.)
<b>Form-factor</b>	✦ Rugged Metal 1.8" SATA SSD	Writing mode	✦ 420mA (Max.)
<b>Host Interface</b>	✦ SATA 7-pin (data) + 15-pin (power)	Idle mode	✦ 160mA (Max.)
<b>Performance</b>		<b>Reliability</b>	
Data transfer rate	✦ Serial ATA Gen-I and Gen-II (1.5Gb/s and 3.0Gb/s)	Wear-Leveling	✦ Static wear-leveling algorithms
Sequential read	✦ 172.0MB/sec (Max.)	ECC	✦ 8 bits or 15 bits per 512 bytes block
Sequential write	✦ 98.5MB/sec (Max.)	<b>Physical specification</b>	
Random access time	✦ 0.2ms (estimated)	Weight	✦ 55g ± 5g /1.94 oz.
<b>Environmental specification</b>		Dimension(W x L x H)	✦ 69.80 x 59.90 x 9.50 (mm)
Operating temp.	✦ STD. 0°C~70°C/W.T. -40°C~+85°C	<b>Warranty</b>	✦ 2 years
Non-operating temp.	✦ STD. -20°C~+80°C/W.T. -50°C~+95°C		
<b>Conformal coating</b>	✦ Option for wide temperature		
Humidity	✦ 10% ~ 95% non-condensing		
Vibration	✦ 15G compliance to MIL-STD-810F		
Shock	✦ 1,500G compliance to MIL-STD-810F		
Altitude	✦ 70,000 feet		

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

Part number list - 1.8" rugged metal SATA II MLC SSD

Product Picture	Capacity	0°C ~ 70°C	-40°C ~ +85°C
	<b>8GB</b>	SR8SF008G-JACMC	WR8SF008G-JACMC/C
	<b>16GB</b>	SR8SF016G-JACMC	WR8SF016G-JACMC/C
	<b>32GB</b>	SR8SF032G-JACMC	WR8SF032G-JACMC/C
	<b>64GB</b>	SR8SF064G-JACMC	WR8SF064G-JACMC/C
	<b>128GB</b>	SR8SF128G-JACMC	WR8SF128G-JACMC/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 8 S F 0 6 4 G — J A C M C / C

**X1** ✦ Grade

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

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

**X12** ✦ Controller version

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

**X13** ✦ Controller grade

**C** : Commercial grade

**X2** ✦ The material of casing

**R** : Rugged metal casing

**X14** ✦ Flash IC

**M** : MLC-NAND flash IC

**X3 X4 X5** ✦ Product category

**8SF** : 1.8" SATA II SSD

**X15** ✦ Flash IC grade

**C** : Commercial grade

**X6 X7 X8 X9** ✦ Capacity

**008G** : 8GB    **064G** : 64GB

**016G** : 16GB    **128G** : 128GB

**032G** : 32GB

**C** ✦ Reserved for specific requirement

**C** : Conformal-coating

**X11** ✦ Controller

**J** : JMicron (HERMES Series)

CFC CompactFlash Card

CFA CFast Card

AFC PCMCIA ATA Card

MIF micro IDE Flash Module

MSF micro SATA Flash Module

MUM micro USB Flash Module

MPM mini PCIe Flash Module

MSM mini SATA Flash Module

SSD Solid State Disk

UFD Rugged Metal USB Flash Disk

SDC/H SD & SDHC Memory Card

AD Adaptor Card-Drive

CFC CompactFlash Card

CFA CFast Card

AFC PCMCIA ATA Card

MIF micro IDE Flash Module

MSF micro SATA Flash Module

MUM micro USB Flash Module

MPM mini PCIe Flash Module

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