

# HERMES Series

## Rugged Metal 1.8" SATA II MLC SSD



### Product features

- MLC - NAND type flash technology
- 1.8" SATA SSD form-factor
- Extremely rugged metal casing to endure harsh environments
- Maximum sequential read speed 172.0MB/sec
- Maximum sequential write speed 98.5MB/sec
- 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 $\pm 5V \pm 10\%$
<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>	Standard SATA 7-pin (data) + 15-pin (power)	Sleeping mode	160mA (Max.)
<b>Performance</b>		<b>Reliability</b>	
Data transfer rate	Serial ATA Gen-I (1.5Gbits) and Gen-II (3.0Gbits)	Wear-leveling	Static wear-leveling algorithms
Sequential read	172.0MB/sec (Max.)	ECC	8 bits or 15 bits per 512bytes block
Sequential write	98.5MB/sec (Max.)	<b>Physical specification</b>	
Random access time	0.2ms	Weight (max.)	55 g $\pm$ 5 g / 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 / IND. -40°C ~ +85°C	<b>Conformal coating</b>	Option for wide temperature
Non-operating temp.	STD. -20°C ~ +80°C / IND. -50°C ~ +95°C	<b>Warranty</b>	1 year
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 Industrial 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
	8GB	SR8SF008G-JACMC	WR8SF008G-JACMC/C
	16GB	SR8SF016G-JACMC	WR8SF016G-JACMC/C
	32GB	SR8SF032G-JACMC	WR8SF032G-JACMC/C
	64GB	SR8SF064G-JACMC	WR8SF064G-JACMC/C
	128GB	SR8SF128G-JACMC	WR8SF128G-JACMC/C

### Remarks:

Industrial 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 1 2 8 G — J A C M C / 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,.....

### 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)

MLC CF

MLC CompactFlash Card

MLC CFast

MLC CFast Card

MLC PCMCIA ATA

MLC PCMCIA ATA Card

MLC MIF

MLC micro IDE Flash Module

MLC MIF

MLC micro IDE Flash Module

MLC MIF

MLC micro IDE Flash Module

MLC MIF

MLC micro IDE Flash Module

MLC MIF

MLC Rugged Metal USB Flash Disk

MLC SD

MLC SD & SDHC Memory Card

AD

Industrial Adapter Card-Drive

MLC CF

MLC CompactFlash Card

MLC CFast

MLC CFast Card

MLC PCMCIA ATA

MLC PCMCIA ATA Card

MLC MIF

MLC micro IDE Flash Module

MLC MIF

MLC micro IDE Flash Module

MLC MIF

MLC micro IDE Flash Module

MLC MIF

MLC micro IDE Flash Module

MLC MIF

MLC Rugged Metal USB Flash Disk

MLC SD

MLC SD & SDHC Memory Card

AD

Industrial Adapter Card-Drive