

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

Compatibility	SATA 1.0a and SATA 2.6 specification compliance	Power consumption	Power requirement $\pm 5V \pm 10\%$
Flash technology	MLC-NAND type flash based	Reading mode	290mA (Max.)
Form-factor	Rugged Metal 1.8" SATA SSD	Writing mode	420mA (Max.)
Host Interface	Standard SATA 7-pin (data) + 15-pin (power)	Idle mode	160mA (Max.)
Performance		Reliability	
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 512 bytes block
Sequential write	98.5MB/sec (Max.)	Physical specification	
Random access time	0.2ms	Weight (max.)	55 g \pm 5 g / 1.94 oz.
Environmental specification		Dimension(W x L x H)	69.80 x 59.90 x 9.50 (mm)
Operating temp.	STD. 0°C ~ 70°C / WID. -40°C ~ +85°C	Conformal coating	Option for wide temperature
Non-operating temp.	STD. -20°C ~ +80°C / WID. -50°C ~ +95°C	Warranty	1 year
Humidity	10% - 95% non-condensing		
Vibration	15 G compliance to MIL-STD-810F		
Shock	1,500 G compliance to MIL-STD-810F		
Altitude	70,000 feet		

Operating temperature supports Standard grade 0°C ~ 70°C and Wide temperature -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:

Wide temperature -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 : Wide temperature 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)

CF Industrial CompactFlash Card

CFast Industrial CFast Card

ATA Industrial PCMCIA ATA Card

MIF Industrial micro IDE Flash Module

MSF Industrial micro SATA Flash Module

MUM Industrial micro USB Flash Module

MPM Industrial mini PCIe Flash Module

MSM Industrial mini SATA Flash Module

SSD Industrial Solid State Disk

UED Industrial Rugged Metal USB Flash Disk

SD Industrial SD & SDHC Memory Card

AD Industrial Adapter Card-Drive

CF Industrial CompactFlash Card

CFast Industrial CFast Card

ATA Industrial PCMCIA ATA Card

MIF Industrial micro IDE Flash Module

MSF Industrial micro SATA Flash Module

MUM Industrial micro USB Flash Module

MPM Industrial mini PCIe Flash Module

MSM Industrial mini SATA Flash Module

SSD Industrial Solid State Disk

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