

HERMES-JI Series

MLC 2.5" Rugged Metal SATA III SSD



INDUSTRIAL

Product Feature


- MLC -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
- Maximum sequential read speed 415 MB/sec (Max.)
- Maximum sequential write speed 200 MB/sec (Max.)
- Capacity from 4GB up to 512GB

Product Specification

Compatibility	➤ SATA 1.0a, SATA 2.6 and SATA 3.0 Specification compliance	Power consumption	Power requirement ➤ +5V ± 5%
Flash technology	➤ MLC-NAND type flash based	Reading mode	➤ 170 mA (Max.)
Form-factor	➤ Rugged Metal 2.5" SATA SSD	Writing mode	➤ 310mA (Max.)
Host Interface	➤ SATA 7-pin (data) + 15-pin (power)	Idle mode	➤ 60mA (Max.)
Performance		Reliability	
Data transfer rate	➤ SATA 1.5Gb/s, 3.0Gb/s, 6.0Gb/s	Wear-leveling	➤ Static wear-leveling algorithms
Sequential read	➤ 415 MB/sec (Max.)	ECC	➤ 40 bits per 1024 bytes block
Sequential write	➤ 200 MB/sec (Max.)	Physical specification	
Random access time	➤ 0.2ms (estimated)	Weight	➤ 115g ± 5g / 3.7 oz.
Environmental specification		Dimension(W x L x H)	➤ 69.90 x 100.0 x 7.00 (mm)
Operating temp.	➤ STD. 0°C~70°C/W.T. -40°C~+85°C	Warranty	
Non-operating temp.	➤ STD. -20°C~+80°C/W.T. -50°C~+95°C	MLC(standard/wide temp.)	➤ 2 years / Within 3k Erasing counts
Conformal coating	➤ 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
	4GB	SR7SF004G-JJCTMB	WR7SF004G-JJCTMB-C
	8GB	SR7SF008G-JJCTMB	WR7SF008G-JJCTMB-C
	16GB	SR7SF016G-JJCTMB	WR7SF016G-JJCTMB-C
	32GB	SR7SF032G-JJCTMB	WR7SF032G-JJCTMB-C
	64GB	SR7SF064G-JICTMB	WR7SF064G-JICTMB-C
	128GB	SR7SF128G-JICTMB	WR7SF128G-JICTMB-C
	256GB	SR7SF256G-JICTMB	WR7SF256G-JICTMB-C
	512GB	SR7SF512G-JICTMB	WR7SF512G-JICTMB-C

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

J : 4GB ~ 32GB / I : 64GB~512GB

PART NUMBER DECODER

X1 X2 X3 X4 X5 X6 X7 X8 X9 — X11 X12 X13 X14 X15 X16 / C

Example 1

W R 7 S F 0 3 2 G — J J C T M B / C

Example 2

W R 7 S F 5 1 2 G — J I C T M B / C

X1 Grade

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

W : Wide temp. Grade operating temp. -40° C~+85 ° C
(Standard grade with conformal coating)

X2 The material of casing

R : Rugged metal casing

X3 X4 X5 Product category

7SF : 2.5" SATA III SSD

X6 X7 X8 X9 Capacity

004G : 4GB **064G :** 64GB

008G : 8GB **128G :** 128GB

016G : 16GB **256G :** 256GB

032G : 32GB **512G :** 512GB

X11 Controller

J : HERMES Series

X12 Controller version

A, B, C.....

X13 Controller grade

C : Standard grade

X14 Flash IC

T : Toshiba NAND flash IC

X15 Flash IC grade

M : MLC-NAND flash IC

X16 Generation

B : 15 nm

C Reserved for specific requirement

C : Conformal-coating