

HERMES-J Series

MLC SATA III CFast Card / Optional Rugged Metal Frame



Product Feature


- MLC - NAND type flash technology
- Compliant CFast Specification V2.0
- CFast Type I form-factor
- 7 pins (data) + 17 pins (power) CFast interface
- Compliant with SATA 1.0a/ 2.6/ 3.0 specification
- S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology)
- Sequential read performance up to 220 MB/sec
- Sequential write performance up to 130 MB/sec
- Capacity from 4GB up to 256GB

Product Specification


Compatibility	<ul style="list-style-type: none"> ➤ CFast Specification V2.0 ➤ SATA 1.0a, SATA 2.6 and SATA 3.0 ➤ Compatible with ATA/ATAPI-7 	Power consumption	
Flash technology	<ul style="list-style-type: none"> ➤ MLC-NAND type flash based 	Power requirement	➤ +5V±5%
Form-factor	<ul style="list-style-type: none"> ➤ CFast Type I 	Reading mode	➤ 220 mA (Max.)
Host Interface	<ul style="list-style-type: none"> ➤ 7 pins (data) + 17 pins (power) CFast connector 	Writing mode	➤ 320 mA (Max.)
Performance		Idle mode	➤ 50mA (Max.)
Data transfer rate	➤ SATA 1.5Gb/s, 3.0Gb/s, 6.0Gb/s	Reliability	
Sequential read	➤ 220 MB/sec (Max.)	Wear-leveling	➤ Static wear-leveling algorithms
Sequential write	➤ 130 MB/sec (Max.)	ECC	➤ 40 bits per 1024 bytes block
Random access time	➤ 0.1ms (estimated)	Physical specification	
Environmental specification		Weight (max.)	➤ Plastic frame: 10.0 ± 1 g / 0.4 oz. ➤ Metal frame: 13.0 ± 1 g / 0.46 oz.
Operating temp.	➤ STD. 0 °C~70 °C/W.T. -40 °C~+85 °C	Dimension(W x L x H)	➤ 42.8 x 36.4 x 3.5 (mm)
Non-operating temp.	➤ STD. -20 °C~+80 °C/W.T. -50 °C~+95 °C	Warranty	
Conformal coating	<ul style="list-style-type: none"> ➤ Option for wide temperature 	MLC(standard/wide temp.)	➤ 2 years / Within 3k Erasing counts
Humidity	➤ 10% ~ 95% non-condensing		
Vibration	➤ 7 Hz to 2K Hz, 20G, 3 axes		
Shock	➤ 0.5ms, 1500 G, 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 - MLC CFast card with standard plastic frame kit

Product Picture	Capacity	0°C ~ 70°C	- 40°C ~ + 85°C
	4GB	SPCFA004G-JJCTMB	WPCFA004G-JJCTMB-C
	8GB	SPCFA008G-JJCTMB	WPCFA008G-JJCTMB-C
	16GB	SPCFA016G-JJCTMB	WPCFA016G-JJCTMB-C
	32GB	SPCFA032G-JJCTMB	WPCFA032G-JJCTMB-C
	64GB	SPCFA064G-JJCTMB	WPCFA064G-JJCTMB-C
	128GB	SPCFA128G-JJCTMB	WPCFA128G-JJCTMB-C
	256GB	SPCFA256G-JJCTMB	WPCFA256G-JJCTMB-C

Part number list - MLC CFast card with rugged metal frame kit

Product Picture	Capacity	0°C ~ 70°C	- 40°C ~ + 85°C
	4GB	SRCFA004G-JJCTMB	WRCFA004G-JJCTMB-C
	8GB	SRCFA008G-JJCTMB	WRCFA008G-JJCTMB-C
	16GB	SRCFA016G-JJCTMB	WRCFA016G-JJCTMB-C
	32GB	SRCFA032G-JJCTMB	WRCFA032G-JJCTMB-C
	64GB	SRCFA064G-JJCTMB	WRCFA064G-JJCTMB-C
	128GB	SRCFA128G-JJCTMB	WRCFA128G-JJCTMB-C
	256GB	SRCFA256G-JJCTMB	WRCFA256G-JJCTMB-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 X16 / C

Example

W R C F A 2 5 6 G — J J 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

P : Plastic frame kit

R : Rugged Metal frame kit

X3 X4 X5 Product category

CFA : CFast card

X6 X7 X8 X9 Capacity

004G : 4GB **032G** : 32GB **256G** : 256GB

008G : 8GB **064G** : 64GB

016G : 16GB **128G** : 128GB

X11 Controller

J : HERMES Series

X12 Controller version

A, B, C.....

X13 Controller grade

C : Commercial 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