

# HERMES-G Series

MLC SATA III CFast Card  
Optional Rugged Metal Frame



## PRODUCT FEATURES


- ▶ MLC - NAND type flash technology
- ▶ Compliant CFast Specification V2.0
- ▶ CFast Type I form-factor
- ▶ 7 pins (data) + 17 pins (power) Cfast interface
- ▶ S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology)
- ▶ Compliant with SATA 1.0a/ 2.6/ 3.0 specification
- ▶ Capacity from 4GB up to 128GB
- ▶ Performance up to 312.8MB/sec (max.)

## PRODUCT SPECIFICATION


<b>Compatibility</b>	<ul style="list-style-type: none"> <li>▶ CFast Specification V2.0</li> <li>▶ SATA 1.0a, SATA 2.6 and SATA 3.0</li> <li>▶ Compatible with ATA/ATAPI-7</li> </ul>	<b>Power consumption</b>	
<b>Flash technology</b>	▶ MLC-NAND type flash based	Power requirement	▶ +3.3V ± 5%
<b>Form-factor</b>	▶ CFast Type I	Reading mode	▶ 260 mA (Max.)
<b>Host Interface</b>	▶ 7 pins (data) + 17 pins (power) Cfast connector	Writing mode	▶ 330 mA(Max.)
<b>Performance</b>		Idle mode	▶ 120 mA (Max.)
Data transfer rate	▶ Serial ATA Gen-I, Gen-II and Gen-III (1.5Gb/s, 3.0Gb/s and 6.0Gb/s)	<b>Reliability</b>	
Sequential read	▶ 312.8 MB/sec (Max.)	Wear-leveling	▶ Static wear-leveling algorithms
Sequential write	▶ 154.5 MB/sec (Max.)	ECC	▶ 40 bits per 1024 bytes block
Random access time	▶ 0.1ms (estimated)	<b>Physical specification</b>	
<b>Environmental specification</b>		Weight	▶ Plastic frame: 10.0 ± 1 g / 0.35 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	<b>Warranty</b>	▶ 2 years
<b>Conformal coating</b>	▶ Option for wide temperature		
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
	<b>4GB</b>	SPCFA004G-JGCTM	WPCFA004G-JGCTM/C
	<b>8GB</b>	SPCFA008G-JGCTM	WPCFA008G-JGCTM/C
	<b>16GB</b>	SPCFA016G-JGCTM	WPCFA016G-JGCTM/C
	<b>32GB</b>	SPCFA032G-JGCTM	WPCFA032G-JGCTM/C
	<b>64GB</b>	SPCFA064G-JGCTM	WPCFA064G-JGCTM/C
	<b>128GB</b>	SPCFA128G-JGCTM	WPCFA128G-JGCTM/C

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

Product Picture	Capacity	0 °C ~ 70 °C	-40 °C ~ +85 °C
	<b>4GB</b>	SRCFA004G-JGCTM	WRCFA004G-JGCTM/C
	<b>8GB</b>	SRCFA008G-JGCTM	WRCFA008G-JGCTM/C
	<b>16GB</b>	SRCFA016G-JGCTM	WRCFA016G-JGCTM/C
	<b>32GB</b>	SRCFA032G-JGCTM	WRCFA032G-JGCTM/C
	<b>64GB</b>	SRCFA064G-JGCTM	WRCFA064G-JGCTM/C
	<b>128GB</b>	SRCFA128G-JGCTM	WRCFA128G-JGCTM/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 C F A 0 6 4 G — J G C T M / C

X1 ▶ **Grade**

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

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

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

**008G** : 8GB

**064G** : 64GB

**016G** : 16GB

**128G** : 128GB

X11 ▶ **Controller**

**J** : JMicon (HERMES-G Series)

X12 ▶ **Controller version**

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

X13 ▶ **Controller grade**

**C** : Commercial grade

X14 ▶ **Flash IC**

**T** : Toshiba flash IC

X15 ▶ **Flash IC grade**

**M** : MLC-NAND flash IC

C ▶ **Reserved for specific requirement**

**C** : Conformal-coating