

HERMES-G Series

MLC SATA III CFast Card Optional Rugged Metal Frame



PRODUCT FEATURES

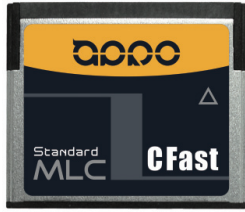
- ▶ MLC - NAND type flash technology
- ▶ Compliant CFast Specification V2.0
- ▶ CFast Type I form-factor
- ▶ 7 pins (data) + 17 pins (power) Cfast interface
- ▶ S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology)
- ▶ Compliant with SATA 1.0a/ 2.6/ 3.0 specification
- ▶ Capacity from 4GB up to 64GB
- ▶ Performance up to 310MB/sec (max.)

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	<ul style="list-style-type: none"> ▶ Power requirement ▶ +3.3V ± 5% ▶ Reading mode ▶ 240 mA (Max.) ▶ Writing mode ▶ 320 mA(Max.) ▶ Idle mode ▶ 110 mA (Max.)
Flash technology	▶ MLC-NAND type flash based	Reliability	<ul style="list-style-type: none"> ▶ Wear-leveling ▶ Static wear-leveling algorithms ▶ ECC ▶ 40 bits per 1024 bytes block
Form-factor	▶ CFast Type I	Physical specification	<ul style="list-style-type: none"> ▶ Weight ▶ Plastic frame: 10.0 ± 1 g / 0.35 oz. ▶ Metal frame: 13.0 ± 1 g / 0.46 oz.
Host Interface	▶ 7 pins (data) + 17 pins (power) Cfast connector	Dimension(W x L x H)	▶ 42.8 x 36.4 x 3.5 (mm)
Performance		Warranty	▶ 2 years
Data transfer rate	▶ Serial ATA Gen-I, Gen-II and Gen-III (1.5Gb/s, 3.0Gb/s and 6.0Gb/s)		
Sequential read	▶ 310 MB/sec (Max.)		
Sequential write	▶ 150 MB/sec (Max.)		
Random access time	▶ 0.1ms (estimated)		
Environmental specification			
Operating temp.	▶ STD. 0° C~70° C/W.T. -40° C~+85° C		
Non-operating temp.	▶ STD. -20° C~+80° C/W.T. -50° C~+95° C		
Conformal coating	▶ Option for wide temperature		
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 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-JGCTM	WPCFA004G-JGCTM/C
	8GB	SPCFA008G-JGCTM	WPCFA008G-JGCTM/C
	16GB	SPCFA016G-JGCTM	WPCFA016G-JGCTM/C
	32GB	SPCFA032G-JGCTM	WPCFA032G-JGCTM/C
	64GB	SPCFA064G-JGCTM	WPCFA064G-JGCTM/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-JGCTM	WRCFA004G-JGCTM/C
	8GB	SRCFA008G-JGCTM	WRCFA008G-JGCTM/C
	16GB	SRCFA016G-JGCTM	WRCFA016G-JGCTM/C
	32GB	SRCFA032G-JGCTM	WRCFA032G-JGCTM/C
	64GB	SRCFA064G-JGCTM	WRCFA064G-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

X11 ▶ **Controller**

J : JMicron (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