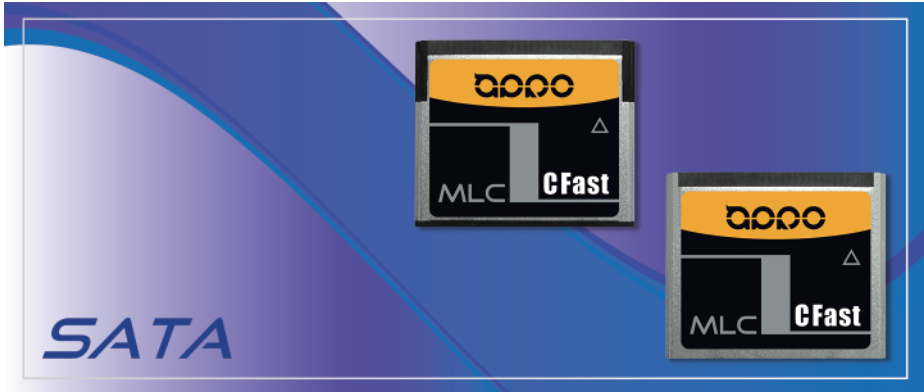


HERMES-J Series

MLC SATA III CFast Card



Product Feature

- MLC - NAND type flash technology
- Optional rugged metal frame
- S.M.A.R.T. supported
- RoHS & REACH compliant
- Capacity from 4GB up to 256GB

Product Specification

Compatibility

- CFast Specification V2.0
- SATA 1.0a, SATA 2.6 and SATA 3.0
- Compatible with ATA/ATAPI-7

Flash technology

- MLC-NAND type flash memory

Form-factor

- CFast Type I

Host Interface

- 7 pins (data) + 17 pins (power)
CFast connector

Performance

- Data transfer rate ■ SATA 1.5Gb/s, 3.0Gb/s, 6.0Gb/s
- Sequential read ■ 220 MB/sec (Max.)
- Sequential write ■ 130 MB/sec (Max.)

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

- 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

Power consumption

- Power requirement ■ +3.3V ± 5%
- Reading mode ■ 220 mA (Max.)
- Writing mode ■ 320 mA (Max.)
- Idle mode ■ 50mA (Max.)

Reliability

- Wear-leveling ■ Static wearLeveling algorithms
- ECC ■ 40 bits per 1024 bytes block

Physical specification


- Weight (max.) ■ Plastic frame CFA : 10.0 ± 1 g / 0.4 oz.
- Rugged metal frame CFA :
13.0 ± 1 g / 0.46 oz.
- Dimension(W x L x H) ■ 42.8 x 36.4 x 3.5 (mm)

Warranty


- MLC(standard/wide temp.) ■ 2 years or within 3K Erasing counts

Part Number List

Standard plastic frame CFA ▶

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

Optional rugged metal frame CFA ▶

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

Part Number Decoder

X1 X2 X3 X4 X5 X6 X7 X8 X9 — X11 X12 X13 X14 X15 X16 — X18 X19 X20

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

X2 The material of casing

P : Plastic frame
 R : Rugged metal frame

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, D

X13 Controller grade

C : Commercial grade

X14 Flash IC brand

T : Toshiba NAND flash IC

X15 Flash IC type

M : MLC-NAND flash IC

X16 MLC Technology

B : Toshiba 15nm MLC

X18 X19 X20 Reserved for specific requirement

C : Conformal coating for wide temp. grade