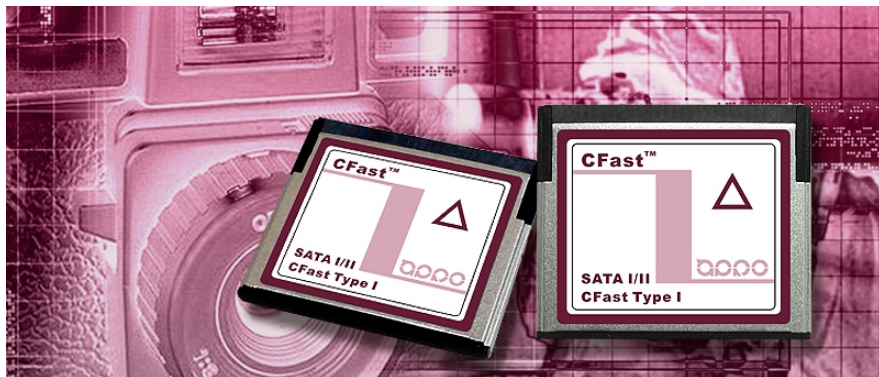


HERMES Series

Industrial CFast Card (CompactFlash form-factor with SATA Interface)



Product features

- RoHS compliant
- SLC-NAND flash technology
- Compliant CFast™ Specification V1.0
- CFast Type I form-factor
- 7-pin (data) + 17-pin (power) CFast interface
- Support SATA I/II (1.5/3.0Gbps) interface
- Fixed disk type
- Data transfer support UDMA-5 and backward compatible
- Support BCH ECC 8 bits or 15 bits in 512 bytes
- Power supply support +3.3V ± 5%
- Capacity supports 2GB, 4GB, 8GB and 16GB
- Optional for commercial grade and industrial grade

Product specifications

Compatibility

- CFA 4.1
- Serial ATA Revision 2.6
- ATA/ATAPI-7

Form-factor

- CFast Type I

Host Interface

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

Flash technology

- SLC-NAND type flash memory

Transfer Mode support

- PIO-4 / MWDMA-2 / UDMA-5 compatible

Performance

- Sequential read ➤ 105.6MB/sec (typ.)
- Sequential write ➤ 100.8MB/sec (typ.)
- Random access time ➤ 0.1ms (typ.)

Environmental specification

- Operating temp. ➤ STD. 0°C ~ 70°C / IND. -40°C ~ +85°C
- Non-operating temp. ➤ STD. -20°C ~ +80°C / IND. -50°C ~ +95°C

Humidity

- 10% ~ 95% non-condensing

Vibration

- 15G compliance to MIL-STD-810F

Shock

- 1,500G compliance to MIL-STD-810F

Altitude

- 70,000 feet

Power consumption

- Power requirement ➤ +3.3V ± 5%
- Reading mode ➤ 280mA (max.)
- Writing mode ➤ 330mA (max.)
- Sleeping mode ➤ 170mA (max.)

Reliability

- Wear-leveling ➤ Support static wear-leveling algorithms
- MTBF ➤ 2,000,000 hours
- ECC ➤ Support BCH ECC 8 bits or 15 bits in 512 bytes
- Endurance ➤ Greater than 3,000,000 cycles

Physical specification

- Weight (max.) ➤ 10.0 g
- Dimension(W x L x H) ➤ 42.8 x 36.4 x 3.3 (mm)

Conformal coating

- Optional for special request

Warranty

- Standard grade ➤ 3 years
- Industrial grade ➤ 5 years

CF

Industrial CompactFlash Card

CFast

Industrial CFast Card

ATA

Industrial PCMCIA ATA Card

MIF

Industrial micro IDE Flash Module

MSE

Industrial micro SATA Flash Module

MUM

Industrial micro USB Module

SSD

Industrial Solid State Disk

USB

Industrial Rugged Metal USB Flash Disk

SD


Industrial SD & SDHC Memory Card

AD

Industrial Adapter Card-Drive

Operating temperature supports Standard grade 0°C ~ 70°C and Industrial grade -40°C ~ +85°C

Part number list - Industrial CFast card

Product picture	Capacity	0°C ~ 70°C	-40°C ~ +85°C
	2GB	SPCFA002G-JBCSC	WPCFA002G-JBISI
	4GB	SPCFA004G-JBCSC	WPCFA004G-JBISI
	8GB	SPCFA008G-JBCSC	WPCFA008G-JBISI
	16GB	SPCFA016G-JBCSC	WPCFA016G-JBISI

Part number decoder

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

S	P	C	F	A	0	1	6	G	—	J	B	C	S	C	/	C				
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X1 ⇨ Grade

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

W : Industrial grade operating temp. -40°C ~ +85°C

X2 ⇨ The material of frame kit

P : Plastic frame kit

X3 X4 X5 ⇨ Product category

CFA : CFast card

X6 X7 X8 X9 ⇨ Capacity

002G : 2GB

004G : 4GB

008G : 8GB

016G : 16GB

X11 ⇨ Controller

J : JMicon (HERMES Series)

X12 ⇨ Controller version

A,B,C,.....

X13 ⇨ Controller grade

C : Commercial grade

I : Industrial grade

X14 ⇨ Flash IC

S : Samsung SLC-NAND flash IC

X15 ⇨ Flash IC grade

C : Commercial grade

I : Industrial grade

C ⇨ Reserved for specific requirement

C : Conformal-coating

CF

Industrial CompactFlash Card

CFast

Industrial CFast Card

ATA

Industrial PCMCIA ATA Card

MIF

Industrial micro IDE Flash Module

MSE

Industrial micro SATA Flash Module

MUM

Industrial micro USB Module

SSD

Industrial Solid State Disk

USB

Industrial Rugged Metal USB Flash Disk

SD

Industrial SD & SDHC Memory Card

AD

Industrial Adaptor Card-Drive