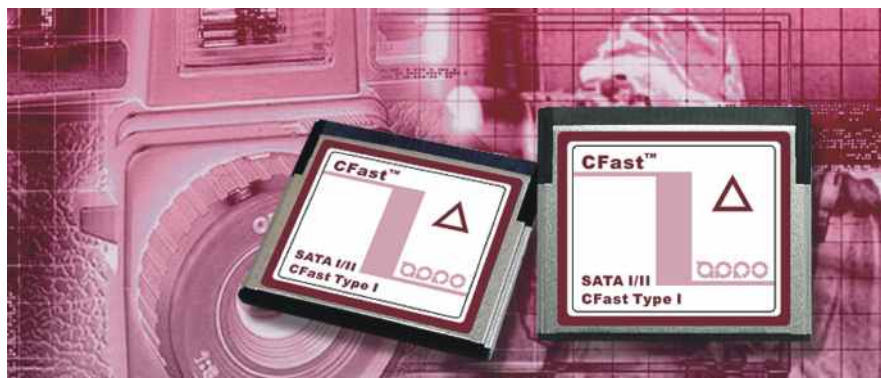


HERMES Series

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 pins (data) + 17 pins (power) CFast interface
- Supports SATA I/II (1.5/3.0Gbps) interface
- Fixed disk type
- Data transfer support UDMA-5 and backward compatible
- Supports BCH ECC 8 bits or 15 bits in 512 bytes
- Power supply support +3.3V ± 5%
- Capacity supports 2GB, 4GB, 8GB and 16GB

Product specifications

- | | |
|--|---|
| Compatibility <ul style="list-style-type: none"> CFA 4.1 Serial ATA Revision 2.6 ATA/ATAPI-7 | Power consumption <ul style="list-style-type: none"> Power requirement: +3.3V ± 5% Reading mode: 280 mA (max.) Writing mode: 330 mA (max.) Idle mode: 170 mA (max.) |
| Form-factor <ul style="list-style-type: none"> CFast Type I | Reliability <ul style="list-style-type: none"> Wear-leveling: Static wear-leveling algorithms MTBF: 2,000,000 hours ECC: 8 bits or 15 bits in 512 bytes Endurance: Greater than 3,000,000 cycles |
| Host Interface <ul style="list-style-type: none"> 7 pins (data) + 17 pins (power) CFast connector | Physical specification <ul style="list-style-type: none"> Weight (max.): 10.0 g ± 1 g / 0.35 oz. Dimension(W x L x H): 42.8 x 36.4 x 3.3 (mm) |
| Flash technology <ul style="list-style-type: none"> SLC-NAND type flash memory | Conformal coating <ul style="list-style-type: none"> Optional for special request |
| Transfer Mode support <ul style="list-style-type: none"> PIO-4 / MWDMA-2 / UDMA-5 compatible | Warranty <ul style="list-style-type: none"> Standard grade: 3 years Industrial grade: 5 years |
| Performance <ul style="list-style-type: none"> Sequential read: 105.6 MB/sec (typ.) Sequential write: 100.8 MB/sec (typ.) Random access time: 0.1 ms (typ.) | |
| Environmental specification <ul style="list-style-type: none"> 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 | |

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

Example

S P C F A 0 1 6 G — J B C S C

X1 Grade

S: Standard grade operating temp. 0°C ~ 70°C
W: Industrial grade operating temp. -40°C ~ +85°C

X12 Controller version

A, B, C, ...

X2 The material of frame kit

P: Plastic frame kit

X13 Controller grade

C: Commercial grade
I: Industrial grade

X3 X4 X5 Product category

CFA: CFast card

X14 Flash IC

S: Samsung SLC-NAND flash IC

X6 X7 X8 X9 Capacity

002G: 2GB
004G: 4GB
008G: 8GB
016G: 16GB

X15 Flash IC grade

C: Commercial grade
I: Industrial grade

C Reserved for specific requirement

C: Conformal-coating

X11 Controller

J: JMicron (HERMES Series)