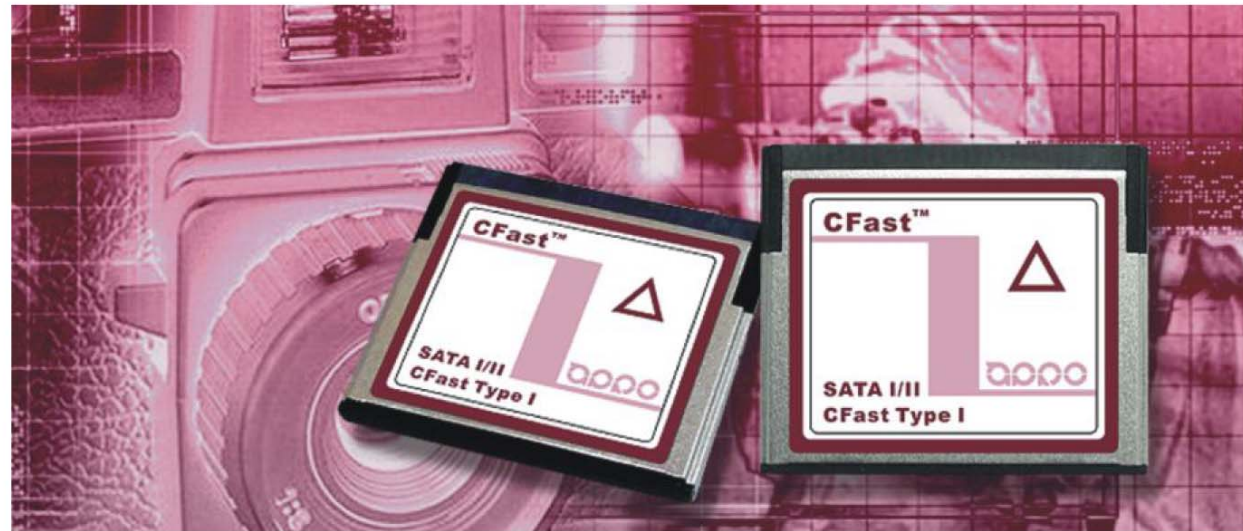


HERMES Series

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 | Form-factor | Host Interface | Flash technology | Transfer Mode support | Performance | Environmental specification | Power consumption | Reliability | Physical specification | Conformal coating | Warranty |
|---|--|---|--|---|--|---|---|--|--|--|--|
| <ul style="list-style-type: none"> CFA 4.1 Serial ATA Revision 2.6 ATA/ATAPI-7 | <ul style="list-style-type: none"> CFast Type I | <ul style="list-style-type: none"> 7 pins (data) + 17 pins (power) CFast connector | <ul style="list-style-type: none"> SLC-NAND type flash memory | <ul style="list-style-type: none"> PIO-4 / MWDMA-2 / UDMA-5 compatible | <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.) | <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 | <ul style="list-style-type: none"> Power requirement: +3.3V ± 5% Reading mode: 280 mA (max.) Writing mode: 330 mA (max.) Sleeping mode: 170 mA (max.) | <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 | <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) | <ul style="list-style-type: none"> Optional for special request | <ul style="list-style-type: none"> Standard grade: 3 years Industrial grade: 5 years |



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Advanced Performance & Rugged Orientation

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 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