

HERMES-D Series

Industrial SATA II CFast Card
Optional Rugged Metal Frame



PRODUCT FEATURES


- ▶ SLC - NAND type flash technology
- ▶ Compliant CFast Specification V1.0
- ▶ CFast Type I form-factor
- ▶ 7 pins (data) + 17 pins (power) CFast interface
- ▶ S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology)
- ▶ Supports SATA I/II (1.5/3.0Gbps) interface
- ▶ Capacity from 2GB up to 64GB
- ▶ Performance up to 130.3 MB/sec (max.)

PRODUCT SPECIFICATION


Compatibility	▶ CFast Specification V1.0	Power consumption	
	▶ SATA 1.0a and SATA 2.6	Power requirement	▶ +3.3V ± 5%
	▶ Compatible with ATA/ATAPI-7	Reading mode	▶ 270 mA (Max.)
Flash technology	▶ SLC-NAND type flash based	Writing mode	▶ 370 mA(Max.)
Form-factor	▶ CFast Type I	Idle mode	▶ 180 mA (Max.)
Host Interface	▶ 7 pins (data) + 17 pins (power) CFast connector	Reliability	
Performance		Wear-leveling	▶ Static wear-leveling algorithms
Data transfer rate	▶ Serial ATA Gen-I and Gen-II (1.5Gb/s and 3.0Gb/s)	MTBF	▶ > 4,000,000 hours
Sequential read	▶ 130.3 MB/sec (Max.)	Endurance	▶ > 3,000,000 cycles
Sequential write	▶ 123.7 MB/sec (Max.)	ECC	▶ 8 bits per 512bytes block
Random access time	▶ 0.1ms (estimated)	Data retention	▶ 10 Years
Environmental specification		Physical specification	
Operating temp.	▶ STD. 0°C~70°C/IND. -40°C~+85°C	Weight	▶ Plastic frame: 10.0 g / 0.35 oz. Metal frame: 13.0 g / 0.46 oz.
Non-operating temp.	▶ STD. -20°C~+80°C/IND. -50°C~+95°C	Dimension(W x L x H)	▶ 42.8 x 36.4 x 3.5 (mm)
Humidity	▶ 10% ~ 95% non-condensing	Warranty	
Vibration	▶ 7 Hz to 2K Hz, 20G, 3 axes	Standard grade	▶ 3 years
Shock	▶ 0.5ms, 1500G, 3 axes	Industrial grade	▶ 5 years
Altitude	▶ 70,000 feet		

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

Part number list - SLC industrial CFast Card with standard plastic frame kit

Product Picture	Capacity	0°C ~ 70°C	-40°C ~ +85°C
	2GB	SPCFA002G-JDCTC(/C)	WPCFA002G-JDITI(/C)
	4GB	SPCFA004G-JDCTC(/C)	WPCFA004G-JDITI(/C)
	8GB	SPCFA008G-JDCTC(/C)	WPCFA008G-JDITI(/C)
	16GB	SPCFA016G-JDCTC(/C)	WPCFA016G-JDITI(/C)
	32GB	SPCFA032G-JDCTC(/C)	WPCFA032G-JDITI(/C)
	64GB	SPCFA064G-JDCTC(/C)	WPCFA064G-JDITI(/C)

Part number list - SLC industrial CFast Card with rugged metal frame kit

Product Picture	Capacity	0°C ~ 70°C	-40°C ~ +85°C
	2GB	SRCFA002G-JDCTC(/C)	WRCFA002G-JDITI(/C)
	4GB	SRCFA004G-JDCTC(/C)	WRCFA004G-JDITI(/C)
	8GB	SRCFA008G-JDCTC(/C)	WRCFA008G-JDITI(/C)
	16GB	SRCFA016G-JDCTC(/C)	WRCFA016G-JDITI(/C)
	32GB	SRCFA032G-JDCTC(/C)	WRCFA032G-JDITI(/C)
	64GB	SRCFA064G-JDCTC(/C)	WRCFA064G-JDITI(/C)

PART NUMBER DECODER

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

Example

W P C F A 0 1 6 G — J D I T I / C

X1 ▶ **Grade**

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

W : Industrial 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**

002G : 2GB

16GB : 16GB

004G : 4GB

032G : 32GB

008G : 8GB

064G : 64GB

X11 ▶ **Controller**

J : JMicon (HERMES-D Series)

X12 ▶ **Controller version**

A, B, C, D.....

X13 ▶ **Controller grade**

C : Commercial grade

I : Industrial grade

X14 ▶ **Flash IC**

T : Toshiba SLC-NAND flash IC

X15 ▶ **Flash IC grade**

C : Commercial grade

I : Industrial grade

C ▶ **Reserved for specific requirement**

C : Conformal-coating