

# HERMES-D Series

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



### 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
- Data transfer support UDMA-6 and backward compatible
- Capacity from 2GB up to 64GB
- Performance up to 134.0 MB/sec (max.)

### Product specifications

<b>Compatibility</b>	<ul style="list-style-type: none"> <li>CFast™ Specification V1.0</li> <li>SATA 1.0a and SATA 2.6</li> <li>Compatible with ATA/ATAPI-7</li> </ul>	<b>Power consumption</b>	<ul style="list-style-type: none"> <li>Power requirement 3.3V 5%</li> <li>Reading mode 270mA (Max.)</li> <li>Writing mode 370mA (Max.)</li> <li>Idle mode 180mA (Max.)</li> </ul>
<b>Flash technology</b>	<ul style="list-style-type: none"> <li>SLC-NAND type flash based</li> </ul>	<b>Reliability</b>	<ul style="list-style-type: none"> <li>Wear-leveling Static wear-leveling algorithms</li> </ul>
<b>Form-factor</b>	<ul style="list-style-type: none"> <li>CFast™ Type I</li> </ul>	<b>Physical specification</b>	<ul style="list-style-type: none"> <li>Weight 10.0 g ± 1 g / 0.35 oz.</li> <li>Dimension(W x L x H) 42.8 x 36.4 x 3.5 (mm)</li> </ul>
<b>Host Interface</b>	<ul style="list-style-type: none"> <li>7 pins (data) + 17 pins (power) CFast™ connector</li> </ul>	<b>Warranty</b>	<ul style="list-style-type: none"> <li>Standard grade 3 years</li> <li>Industrial grade 5 years</li> </ul>
<b>Performance</b>	<ul style="list-style-type: none"> <li>Data transfer rate Serial ATA Gen-I and Gen-II (1.5Gb/s and 3.0Gb/s)</li> <li>Sequential read 134.0 MB/sec (Max.)</li> <li>Sequential write 112.8 MB/sec (Max.)</li> <li>Random access time 0.1ms (estimated)</li> </ul>	<b>Environmental specification</b>	<ul style="list-style-type: none"> <li>Operating temp. STD. 0°C~70°C/IND. -40°C~+85°C</li> <li>Non-operating temp. STD. -20°C~+80°C/IND. -50°C~+95°C</li> <li>Humidity 10% ~ 95% non-condensing</li> <li>Vibration 15G compliance to MIL-STD-810F</li> <li>Shock 1,500G compliance to MIL-STD-810F</li> <li>Altitude 70,000 feet</li> </ul>

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-JDCSC(/C)	WPCFA002G-JDISI(/C)
	4GB	SPCFA004G-JDCSC(/C)	WPCFA004G-JDISI(/C)
	8GB	SPCFA008G-JDCSC(/C)	WPCFA008G-JDISI(/C)
	16GB	SPCFA016G-JDCMC(/C)	WPCFA016G-JDIMI(/C)
	32GB	SPCFA032G-JDCMC(/C)	WPCFA032G-JDIMI(/C)
	64GB	SPCFA064G-JDCTC(/C)	WPCFA064G-JDITI(/C)

### Part number decoder



**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 casing**  
**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  
**M** : Micron SLC-NAND flash IC  
**T** : Toshiba SLC-NAND flash IC

**X6** **X7** **X8** **X9** ➤ **Capacity**  
**002G** : 2GB    **016G** : 16GB  
**004G** : 4GB    **032G** : 32GB  
**008G** : 8GB    **064G** : 64GB

**X15** ➤ **Flash IC grade**  
**C** : Commercial grade  
**I** : Industrial grade

**X11** ➤ **Controller**  
**J** : JMicron (HERMES Series)

**C** ➤ **Reserved for specific requirement**  
**C** : Conformal-coating

CFC Industrial CompactFlash Card

CFA Industrial CFast Card

AFC Industrial PCMCIA ATA Card

MIF Industrial micro IDE Flash Module

MSF Industrial micro SATA Flash Module

MUM Industrial micro USB Flash Module

MPM Industrial mini PCI-e Flash Module

MSM Industrial mini SATA Flash Module

SSD Industrial Solid State Disk

UFD Industrial Rugged Metal USB Flash Disk

SDC/H Industrial 5V & 3.3VHC Memory Card

AD Industrial Adapter Card-Drive

CFC Industrial CompactFlash Card

CFA Industrial CFast Card

AFC Industrial PCMCIA ATA Card

MIF Industrial micro IDE Flash Module

MSF Industrial micro SATA Flash Module

MUM Industrial micro USB Flash Module

MPM Industrial mini PCI-e Flash Module

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