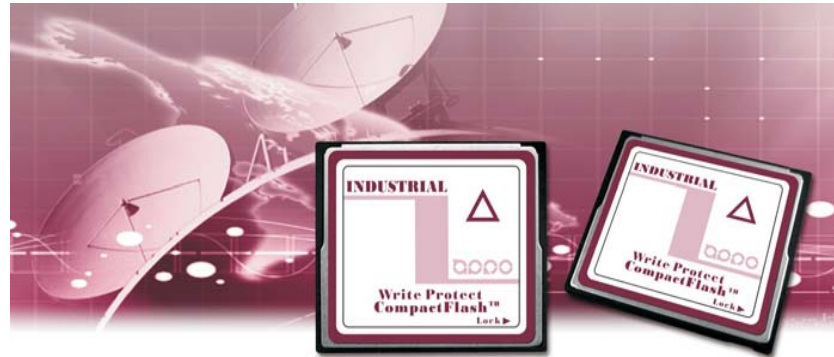


# HERMIT Series

## SLC Industrial CompactFlash (CF) Card supports Write Protect Function



### Write-protection switch



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

Part number list - Industrial Write Protect CF Card with standard plastic frame kit

Product Picture	Capacity	0° C ~ 70° C	-40° C ~ +85° C
	128MB	SPCFW128M-HACSC-UF(/C)	WPCFW128M-HAISH-UF(/C)
	256MB	SPCFW256M-HACSC-UF(/C)	WPCFW256M-HAISH-UF(/C)
	512MB	SPCFW512M-HACSC-UF(/C)	WPCFW512M-HAISH-UF(/C)
	1GB	SPCFW001G-HACSC-UF(/C)	WPCFW001G-HAISH-UF(/C)
	2GB	SPCFW002G-HACSC-UF(/C)	WPCFW002G-HAISH-UF(/C)
	4GB	SPCFW004G-HACSC-UF(/C)	WPCFW004G-HAISH-UF(/C)

### Part number decoder

X1 X2 X3 X4 X5 X6 X7 X8 X9 — X11 X12 X13 X14 X15 — Z1 Z2 / C

#### Example

W P C F W 0 3 2 G — M N I M I — U F / 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

#### X3 X4 X5 Product category

CFW : CompactFlash (CF) card supports write protect

#### X6 X7 X8 X9 Capacity

128M : 128MB 001G : 1GB

256M : 256MB 002G : 2GB

512M : 512MB 004G : 4GB

#### X11 Controller

H : Hyperstone (HERMIT Series)

#### X12 Controller version

A,B,C,....

#### X13 Controller grade

C : Commercial grade

I : Industrial grade

#### X14 Flash IC

S : Samsung flash IC

#### X15 Flash IC grade

C : Commercial grade

I : Industrial grade

#### Z1 Z2 Data transfer rate and disk types

PF: optional as PIO-4 mode / Fixed disk type

PR: optional as PIO-4 mode / Removable disk type

#### UF: defaulted as UDMA-4 mode / Fixed disk type

UR: optional as UDMA-4 mode / Removable disk type

AA: optional as UDMA & PIO mode auto-detection /

Fixed disk & removable disk type auto-detection

#### C Reserved for specific requirement

C : Conformal-coating

### Product features

- SLC - NAND type flash technology
- Support write protect function by switch
- Compatible with CompactFlash® specification 3.0
- Data transfer mode support PIO 0~4, MWDMA 0~2, UDMA 0~4
- CompactFlash® Type I form-factor
- Supports PC Card Memory mode or True IDE mode
- Compatible with ATA/ATAPI-6 standard
- Performance up to: Read 40 MB/sec ; Write 20 MB/sec
- Capacities from 128MB up to 4GB

### Product specifications

<b>Compatibility</b>	CompactFlash® specification 6.0	<b>Power consumption</b>	Power requirement	+5V 10% / +3.3V 5%
	Compatible with ATA/ATAPI-6	<b>Reading mode</b>	124 mA (Max.)	
<b>Flash technology</b>	SLC-NAND type flash based	<b>Writing mode</b>	121 mA(Max.)	
<b>Form-factor</b>	CompactFlash type I	<b>Idle mode</b>	1.8 mA (Max.)	
<b>Host Interface</b>	Female 50 pins	<b>Reliability</b>	<b>Wear-leveling</b>	Static wear-leveling algorithms
<b>Performance</b>		<b>MTBF</b>	> 3,000,000 hours	
<b>Data transfer rate</b>	PIO 0~4, MWDMA 0~2, UDMA 0~4	<b>Endurance</b>	> 2,000,000 cycles	
	66.6 MB/sec (ATA-5 / UDMA-4)	<b>ECC</b>	4 bits per 512bytes block	
	16.6 MB/sec (ATA-3 / PIO-4)	<b>Data retention</b>	10 Years	
<b>Sequential read</b>	40 MB/sec (Max. /with dual flash)	<b>Physical specification</b>	<b>Weight (max.)</b>	12.0 g / 0.42 oz.
<b>Sequential write</b>	20 MB/sec (Max. /with dual flash)	<b>Dimension(W x L x H)</b>	42.8 x 36.4 x 3.3 (mm)	
<b>Random access time</b>	0.2ms (estimated)	<b>Conformal coating</b>	Option for special request	
<b>Environmental specification</b>		<b>Warranty</b>	<b>Standard grade</b>	3 years
<b>Operating temp.</b>	STD. 0° C~70° C/IND. -40° C~+85° C	<b>Industrial grade</b>	5 years	
<b>Non-operating temp.</b>	STD. -20° C~+80° C/IND. -50° C~+95° C			
<b>Humidity</b>	10% ~ 95% non-condensing			
<b>Vibration</b>	15G compliance to MIL-STD-810F			
<b>Shock</b>	1,500G compliance to MIL-STD-810F			
<b>Altitude</b>	70,000 feet			

CF Industrial CompactFlash Card

CFast Industrial CFast Card

ATA 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 PCIe Flash Module

MSM Industrial mini SATA Flash Module

SSD Industrial Solid State Disk

UFD Industrial Rugged Metal USB Flash Disk

SD Industrial SD & SDHC Memory Card

AD Industrial Adapter Card-Drive

CF Industrial CompactFlash Card

CFast Industrial CFast Card

ATA 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 PCIe Flash Module

MSM Industrial mini SATA Flash Module

SSD Industrial Solid State Disk

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