

HERMIT Series

SLC Industrial CompactFlash (CF) Card Rugged Metal Fram

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

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

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 PCI-e 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



HERMIT Series Industrial (Rugged Metal) CompactFlash (CF) Card

Product features

- SLC - NAND type flash technology
- Optional for standard casing and rugged metal casing
- 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

Compatibility	<ul style="list-style-type: none"> CompactFlash® specification 6.0 Compatible with ATA/ATAPI-6 	Power consumption	<ul style="list-style-type: none"> Power requirement <ul style="list-style-type: none">+5V 10% / +3.3V 5% Reading mode <ul style="list-style-type: none">124 mA (Max.) Writing mode <ul style="list-style-type: none">121 mA(Max.) Idle mode <ul style="list-style-type: none">1.8 mA (Max.)
Flash technology	<ul style="list-style-type: none"> SLC-NAND type flash based 	Reliability	<ul style="list-style-type: none"> Wear-leveling <ul style="list-style-type: none">Static wear-leveling algorithms MTBF <ul style="list-style-type: none">> 3,000,000 hours Endurance <ul style="list-style-type: none">> 2,000,000 cycles ECC <ul style="list-style-type: none">4 bits per 512bytes block
Form-factor	<ul style="list-style-type: none"> CompactFlash type I 	Physical specification	<ul style="list-style-type: none"> Weight (max.) <ul style="list-style-type: none">Standard casing 12.0 g / 0.42 oz. Metal casing 15.0 g / 0.53 oz.
Host Interface	<ul style="list-style-type: none"> Female 50 pins 	Conformal coating	<ul style="list-style-type: none"> Option for special request
Performance	<ul style="list-style-type: none"> Data transfer rate <ul style="list-style-type: none">PIO 0-4, MWDMA 0-2, UDMA 0-4 66.6 MB/sec (ATA-5 / UDMA-4) 16.6 MB/sec (ATA-3 / PIO-4) Sequential read <ul style="list-style-type: none">40 MB/sec (Max. / 32GB) Sequential write <ul style="list-style-type: none">27.8 MB/sec (Max. / 32GB) Random access time <ul style="list-style-type: none">0.2ms (estimated) 	Warranty	<ul style="list-style-type: none"> Standard grade <ul style="list-style-type: none">3 years Industrial grade <ul style="list-style-type: none">5 years
Environmental specification	<ul style="list-style-type: none"> Operating temp. <ul style="list-style-type: none">STD. 0°C~70°C/IND. -40°C~+85°C Non-operating temp. <ul style="list-style-type: none">STD. -20°C~+80°C/IND. -50°C~+95°C Humidity <ul style="list-style-type: none">10% ~ 95% non-condensing Vibration <ul style="list-style-type: none">15G compliance to MIL-STD-810F Shock <ul style="list-style-type: none">1,500G compliance to MIL-STD-810F Altitude <ul style="list-style-type: none">70,000 feet 	Dimension(W x L x H)	<ul style="list-style-type: none"> 42.8 x 36.4 x 3.3 (mm)

Product Picture	Capacity	0° C ~ 70° C	-40° C ~ +85° C
	16MB	SPCFC016M-HACSC-UF(/C)	WPCFC016M-HAISI-UF(/C)
	32MB	SPCFC032M-HACSC-UF(/C)	WPCFC032M-HAISI-UF(/C)
	64MB	SPCFC064M-HACSC-UF(/C)	WPCFC064M-HAISI-UF(/C)
	128MB	SPCFC128M-HACSC-UF(/C)	WPCFC128M-HAISI-UF(/C)
	256MB	SPCFC256M-HACSC-UF(/C)	WPCFC256M-HAISI-UF(/C)
	512MB	SPCFC512M-HACSC-UF(/C)	WPCFC512M-HAISI-UF(/C)
	1GB	SPCFC001G-HACSC-UF(/C)	WPCFC001G-HAISI-UF(/C)
	2GB	SPCFC002G-HACSC-UF(/C)	WPCFC002G-HAISI-UF(/C)
	4GB	SPCFC004G-HACSC-UF(/C)	WPCFC004G-HAISI-UF(/C)
	8GB	SPCFC008G-HACSC-UF(/C)	WPCFC008G-HAISI-UF(/C)
	16GB	SPCFC016G-HACMC-UF(/C)	WPCFC016G-HAIMI-UF(/C)
	32GB	SPCFC032G-HACMC-UF(/C)	WPCFC032G-HAIMI-UF(/C)

Part number list - Industrial CF Card with rugged metal frame kit

Product Picture	Capacity	0° C ~ 70° C	-40° C ~ +85° C
	16MB	SRCFC016M-HACSC-UF(/C)	WRCFC016M-HAISI-UF(/C)
	32MB	SRCFC032M-HACSC-UF(/C)	WRCFC032M-HAISI-UF(/C)
	64MB	SRCFC064M-HACSC-UF(/C)	WRCFC064M-HAISI-UF(/C)
	128MB	SRCFC128M-HACSC-UF(/C)	WRCFC128M-HAISI-UF(/C)
	256MB	SRCFC256M-HACSC-UF(/C)	WRCFC256M-HAISI-UF(/C)
	512MB	SRCFC512M-HACSC-UF(/C)	WRCFC512M-HAISI-UF(/C)
	1GB	SRCFC001G-HACSC-UF(/C)	WRCFC001G-HAISI-UF(/C)
	2GB	SRCFC002G-HACSC-UF(/C)	WRCFC002G-HAISI-UF(/C)
	4GB	SRCFC004G-HACSC-UF(/C)	WRCFC004G-HAISI-UF(/C)
	8GB	SRCFC008G-HACSC-UF(/C)	WRCFC008G-HAISI-UF(/C)
	16GB	SRCFC016G-HACMC-UF(/C)	WRCFC016G-HAIMI-UF(/C)
	32GB	SRCFC032G-HACMC-UF(/C)	WRCFC032G-HAIMI-UF(/C)

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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

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 PCI-e 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

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 C 0 3 2 G — H A 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

R : Rugged metal frame kit

X3 X4 X5 ▶ **Product category**

CFC : CompactFlash (CF) card

X6 X7 X8 X9 ▶ **Capacity**

016M : 16MB **001G** : 1GB

032M : 32MB **002G** : 2GB

064M : 64MB **004G** : 4GB

128M : 128MB **008G** : 8GB

256M : 256MB **016G** : 16GB

512M : 512MB **032G** : 32GB

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

M : Micron SLC-NAND 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