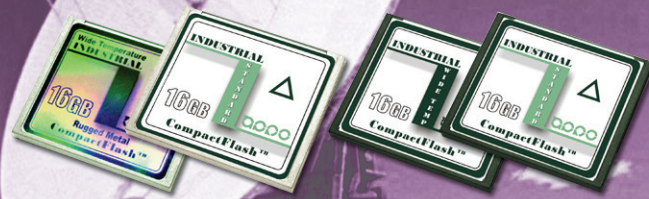


## HETMIT Series Industrial (Rugged metal) CompactFlash (CF) card



### Product features

- ❖ SLC - NAND type flash technology
- ❖ Compatible with CompactFlash® specification 3.0
- ❖ CompactFlash® Type I form-factor
- ❖ Optional for standard casing and rugged metal casing
- ❖ Compatible with ATA/ATAPI-6 standard
- ❖ Data transfer mode support PIO 0-6 and UDMA 0-5
- ❖ Performance up to 40MB/sec
- ❖ Capacity from 128MB up to 16GB

### Product specifications


<b>Compatibility</b>	❖ ATAPI-6 and True IDE mode	<b>Power consumption</b>	
<b>Flash technology</b>	❖ CompactFlash type I	Power requirement	❖ +5V ± 10% / +3.3V ± 5%
<b>Form-factor</b>	❖ SLC-NAND type flash based	Reading mode	❖ 124mA(Max.)
<b>Host Interface</b>	❖ Female 50 pins	Writing mode	❖ 121mA(Max.)
<b>Performance</b>		Sleeping mode	❖ 1.8mA(Max.)
Data transfer mode	❖ PIO-4 mode or UDMA-4 mode (def.)	<b>Reliability</b>	
Data transfer rate	❖ 66.6MB/sec (ATA-5 / UDMA-4)	Wear-leveling	❖ Static wear-leveling algorithms
	❖ 16.6MB/sec (ATA-3 / PIO-4)	MTBF	❖ > 3,000,000 hours
Sequential read	❖ 40 MB/sec (Max. /with dual flash)	ECC	❖ 4-bits per 512bytes block
Sequential write	❖ 20 MB/sec (Max. /with dual flash)	Endurance	❖ > 2,000,000 cycles
Average access time	❖ 0.2ms (estimated)	<b>Physical specification</b>	
<b>Environmental specification</b>		Weight (max.)	❖ Standard casing 12.0g/ 0.42 oz.
Operating temp.	❖ STD. 0°C ~ 70°C / IND. -40°C ~ 85°C		❖ Metal casing 15.0g/ 0.53 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 3.3 (mm)
Humidity	❖ 10% ~ 95% non-condensing	<b>Conformal coating</b>	❖ Option for special request
Vibration	❖ 15G compliance to MIL-STD-810F	<b>Warranty</b>	
Shock	❖ 1,500G compliance to MIL-STD-810F	Standard grade	❖ 3 years
Altitude	❖ 70,000 feet	Industrial grade	❖ 5 years

# Product Specifications

INDUSTRIAL CompactFlash Card

Operating temperature supports standard grade 0° C ~ 70° C and industrial grade -40° C ~ 85° C


## Part number list - Standard CompactFlash card casing

Product picture	Capacity	0° C~ 70° C	-40° C~ 85° C
	128MB	SPCFC128M-HACSC-UF	WPCFC128M-HAISI-UF
	256MB	SPCFC256M-HACSC-UF	WPCFC256M-HAISI-UF
	512MB	SPCFC512M-HACSC-UF	WPCFC512M-HAISI-UF
	1GB	SPCFC001G-HACSC-UF	WPCFC001G-HAISI-UF
	2GB	SPCFC002G-HACSC-UF	WPCFC002G-HAISI-UF
	4GB	SPCFC004G-HACSC-UF	WPCFC004G-HAISI-UF
	8GB	SPCFC008G-HACSC-UF	WPCFC008G-HAISI-UF
	16GB	SPCFC016G-HACSC-UF	WPCFC016G-HAISI-UF

INDUSTRIAL PCMCIA ATA Card

INDUSTRIAL micro IDE Flash Disk

## Part number list - Rugged metal CompactFlash card casing

Product picture	Capacity	0° C~ 70° C	-40° C~ 85° C
	128MB	SRCFC128M-HACSC-UF	WRCFC128M-HAISI-UF
	256MB	SRCFC256M-HACSC-UF	WRCFC256M-HAISI-UF
	512MB	SRCFC512M-HACSC-UF	WRCFC512M-HAISI-UF
	1GB	SRCFC001G-HACSC-UF	WRCFC001G-HAISI-UF
	2GB	SRCFC002G-HACSC-UF	WRCFC002G-HAISI-UF
	4GB	SRCFC004G-HACSC-UF	WRCFC004G-HAISI-UF
	8GB	SRCFC008G-HACSC-UF	WRCFC008G-HAISI-UF
	16GB	SRCFC016G-HACSC-UF	WRCFC016G-HAISI-UF

INDUSTRIAL micro SATA Flash Disk

INDUSTRIAL Solid State Disk

## Remarks: The optional data-transfer modes and disk types are:

1. PF: optional as PIO-4 mode / Fixed disk type
2. PR: optional as PIO-4 mode / Removable disk type
3. PA: optional as PIO-4 mode / Fixed disk & removable disk type auto-detection
- 4. UF: defaulted as UDMA-4 mode / Fixed disk type**
5. UR: optional as UDMA-4 mode / Removable disk type
6. UA: optional as UDMA-4 mode / Fixed disk & removable disk type auto-detection
7. AF: optional as UDMA & PIO mode auto-detection / Fixed disk type
8. AR: optional as UDMA & PIO mode auto-detection / Removable disk type
9. AA: optional as UDMA & PIO mode auto-detection / Fixed disk & removable disk type auto-detection

INDUSTRIAL Rugged Metal USB Flash Disk

INDUSTRIAL Adapter Card Reader

**Part number decoder**

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

**Example**

S P C F C 5 1 2 M — H A C S C — 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 case**

**P** : Plastic frame kit

**R** : Rugged metal frame kit

**X3 X4 X5 ▶ Product category**

**CFC** : CompactFlash (CF) card

**X6 X7 X8 X9 ▶ Capacity**

**128M** : 128MB

**256M** : 256MB

**512M** : 512MB

**001G** : 1GB

**002G** : 2GB

**004G** : 4GB

**008G** : 8GB

**016G** : 16GB

**Z1 Z2 ▶ Data transfer rate**

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

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

**PA** : optional as PIO-4 mode / Fixed disk & removable disk type auto-detection

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

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

**UA** : optional as UDMA-4 mode / Fixed disk & removable disk type auto-detection

**AF** : optional as UDMA & PIO mode auto-detection / Fixed disk type

**AR** : optional as UDMA & PIO mode auto-detection / Removable disk type

**AA** : optional as UDMA & PIO mode auto-detection / Fixed disk & removable disk type auto-detection

**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 SLC-NAND flash IC

**X15 ▶ Flash IC grade / Type**

**C** : Commercial grade

**I** : Industrial grade

**C ▶ Reserved for specific requirement**

**C** : Conformal-coating

INDUSTRIAL  
CompactFlash Card

INDUSTRIAL  
PCMCIA ATA Card

INDUSTRIAL  
micro IDE Flash Disk

INDUSTRIAL  
micro SATA Flash Disk

INDUSTRIAL  
Solid State Disk

INDUSTRIAL  
USB Flash Disk

INDUSTRIAL  
ATA Card Reader