

SLC  
aSLC  
MLC  
3D-NAND  
DRAM Module  
Adapter  
Card-drive



◆ Features

- SLC-NAND flash technology
- Support PC Card Memory mode or True IDE mode
- Support write protect via a switch
- Support S.M.A.R.T. command set and utility
- Support C.H.S./LBA customization
- Capacities from 16MB up to 4GB

◆ Specification

- **Compatibility** CompactFlash® specification 3.0  
Compatible with ATA/ATAPI-6
- **Declarations** RoHS & REACH compliant
- **Flash technology** SLC-NAND flash technology
- **Form-factor** CompactFlash® type I
- **Host interface** Female 50 pins
- **Performance**
  - **Data transfer rate** PIO 0~6, MWDMA 0~2, UDMA 0~4
  - **Sequential read** 36.4 MB/sec (Max.)
  - **Sequential write** 26.5 MB/sec (Max.)
- **Environmental**
  - **Operating temp.** STD. 0°C~+70°C/IND. -40°C~+85°C
  - **Non-operating temp.** STD. -20°C~+80°C/IND. -50°C~+95°C
  - **Humidity** 10% ~ 95% non-condensing
  - **Vibration** 70 Hz to 2K Hz, 20G, 3 axes
  - **Shock** 0.5ms, 1,500 G, 3 axes
  - **Altitude** 70,000 feet
- **Power consumption**

- **Power requirement** +5V ± 10% / + 3.3V ± 10%
- **Reading mode** 168.9 mA (Max.)
- **Writing mode** 151.5 mA (Max.)
- **Idle mode** 2.4 mA (Max.)
- **Reliability**
  - **Wear-leveling** Static wear-leveling algorithms
  - **TBW** Up to 210.9 TBW at 4GB Capacity (Sequential Write)
- **MTBF** > 3,000,000 hours
- **Erase counts** Up to 60,000 times
- **ECC** 4 bits per 512 bytes block
- **Physical specification**
  - **Weight (Max.)** Plastic frame : 12g
  - **Dimension (WxLxH)** 42.8 x 36.4 x 3.3 (mm)
- **Conformal coating** Optional
- **Warranty**
  - **SLC STD. grade** 3 years or within 60,000 erasing counts
  - **SLC IND. grade** 5 years or within 60,000 erasing counts

◆ Part Number List

Capacity	0°C~+70°C	Capacity	-40°C~+85°C
16MB	SPCFW016M-HACTC-UF	16MB	WPCFW016M-HAITI-UF
32MB	SPCFW032M-HACTC-UF	32MB	WPCFW032M-HAITI-UF
64MB	SPCFW064M-HACTC-UF	64MB	WPCFW064M-HAITI-UF
128MB	SPCFW128M-HACTC-UF	128MB	WPCFW128M-HAITI-UF
256MB	SPCFW256M-HACTC-UF	256MB	WPCFW256M-HAITI-UF
512MB	SPCFW512M-HACTC-UF	512MB	WPCFW512M-HAITI-UF
1GB	SPCFW001G-HACTC-UF	1GB	WPCFW001G-HAITI-UF
2GB	SPCFW002G-HACTC-UF	2GB	WPCFW002G-HAITI-UF
4GB	SPCFW004G-HACTC-UF	4GB	WPCFW004G-HAITI-UF

◆ Part Number Decoder

X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	X12	X13	X14	X15	X16	X17	X18	X19	X20
W	P	C	F	W	0	0	4	G	-	H	A	I	T	I	-	U	F	C	

Example

**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® Card supports write protection

**X6** **X7** **X8** **X9** Capacity  
016M : 16MB      512M : 512MB  
032M : 32MB      001G : 1GB  
064M : 64MB      002G : 2GB  
128M : 128MB    004G : 4GB  
256M : 256MB

**X11** Controller  
H : HERMIT Series

**X12** Controller version  
A, B, C, D,....

**X13** Controller grade  
C : Commercial grade  
I : Industrial grade

**X14** Flash IC brand  
T : Toshiba SLC-NAND flash IC

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

**X17** **X18** Data transfer rate / Disk types  
PF : Optional as PIO-6 mode / Fixed disk type  
PR : Optional as PIO-6 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 Autosense UDMA or PIO mode / Autosense removable disk type or fixed disk type

**X19** **X20** Reserved for specific requirements  
C : Conformal coating (optional)