

SLC

aSLC

MLC

3D-NAND

DRAM Module

Adapter

Card-drive



◆ Features

- MLC-NAND flash technology
- Support PC Card Memory mode or True IDE mode
- Optional rugged metal frame
- Ultra-high random read/write speed
- Support S.M.A.R.T. command set and utility
- Support C.H.S./LBA customization
- Support Power Loss Protection
- Capacities from 8GB up to 256GB

◆ Specification

- **Compatibility** CompactFlash® specification 6.1  
Compatible with ATA/ATAPI-7
- **Declarations** RoHS & REACH compliant
- **Flash technology** MLC-NAND flash technology
- **Form-factor** CompactFlash® Type I
- **Host interface** Female 50 pins
- **Performance**
  - **Data transfer rate** PIO 2~6, MWDMA 0~4 UDMA 0~6
  - **Sequential read** 117.4 MB/sec (Max.)
  - **Sequential write** 64.7 MB/sec (Max.)
  - **4KB random read** 10.1 MB/sec (Max.)
  - **4KB random write** 6.4 MB/sec (Max.)
- **Environmental**
  - **Operating temp.** STD. 0°C~+70°C/W.T. -40°C~+85°C
  - **Non-operating temp.** STD. -20°C~+80°C/W.T. -50°C~+95°C
  - **Humidity** 10% ~ 95% non-condensing
  - **Vibration** 70 Hz to 2K Hz, 15G, 3 axes
  - **Shock** 0.5ms, 1500G, 3 axes
  - **Altitude** 70,000 feet

- **Power consumption**
  - **Power requirement** +5V ± 10% / +3.3V ± 10%
  - **Reading mode** 134 mA (Max.)
  - **Writing mode** 143 mA(Max.)
  - **Idle mode** 3 mA (Max.)
- **Reliability**
  - **Wear-leveling** Static, Dynamic and Global Wear Leveling algorithms
  - **TBW** Up to 62.5 TBW at 256GB Capacity  
(Client workload by JESD-219A)
  - **Erase counts** Up to 3,000 times
  - **ECC** 96 bits per 1024 bytes block
- **Physical specification**
  - **Weight (Max.)** Plastic frame : 12g  
Rugged metal frame : 14g
  - **Dimension (WxLxH)** 42.8 x 36.4 x 3.3 (mm)
  - **Conformal coating** Optional
  - **Warranty** 2 years or within 3,000 erasing counts

◆ Part Number List

Standard plastic frame CFC			Optional rugged metal CFC		
Capacity	0°C~+70°C	-40°C~+85°C	Capacity	0°C~+70°C	-40°C~+85°C
8GB	SPCFC008G-HFCTM-UF	WPCFC008G-HFCTM-UFC	8GB	SRCFC008G-HFCTM-UF	WRCFC008G-HFCTM-UFC
16GB	SPCFC016G-HFCTM-UF	WPCFC016G-HFCTM-UFC	16GB	SRCFC016G-HFCTM-UF	WRCFC016G-HFCTM-UFC
32GB	SPCFC032G-HFCTM-UF	WPCFC032G-HFCTM-UFC	32GB	SRCFC032G-HFCTM-UF	WRCFC032G-HFCTM-UFC
64GB	SPCFC064G-HFCTM-UF	WPCFC064G-HFCTM-UFC	64GB	SRCFC064G-HFCTM-UF	WRCFC064G-HFCTM-UFC
128GB	SPCFC128G-HFCTM-UF	WPCFC128G-HFCTM-UFC	128GB	SRCFC128G-HFCTM-UF	WRCFC128G-HFCTM-UFC
256GB	SPCFC256G-HFCTM-UF	WPCFC256G-HFCTM-UFC	256GB	SRCFC256G-HFCTM-UF	WRCFC256G-HFCTM-UFC

◆ Part Number Decoder

X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11	X12	X13	X14	X15	X16	X17	X18	X19	X20
W	R	C	F	C	2	5	6	G	—	H	F	C	T	M	—	U	F	C	

Example

- **X1 Grade**  
S : Standard grade operating temp. 0°C~+70°C  
W : Wide temp. grade operating temp. -40°C~+85°C
- **X2 The material of casing**  
P : Plastic frame  
R : Rugged metal frame
- **X3 X4 X5 Product category**  
CFC : CompactFlash® Card
- **X6 X7 X8 X9 Capacity**  
008G : 8GB      064G : 64GB  
016G : 16GB    128G : 128GB  
032G : 32GB    256G : 256GB
- **X11 Controller**  
H : HERMIT Series
- **X12 Controller version**  
A, B, C, D.....
- **X13 Controller grade**  
C : Commercial grade
- **X14 Flash IC brand**  
T : Toshiba NAND flash IC
- **X15 Flash IC type**  
M : MLC-NAND flash IC
- **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-6 mode / Fixed disk type  
UR : Optional as UDMA-6 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)