



Features

- MLC-NAND flash technology
- Support PC Card Memory mode or True IDE mode
- Optional rugged metal frame
- Support S.M.A.R.T. command set and utility
- Support C.H.S./LBA customization
- Capacities from 4GB up to 256GB

Specification

- **Compatibility** CompactFlash® specification 6.0
Compatible with ATA/ATAPI-8
- **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 0~4, MWDMA 0~4, UDMA 0~6
 - **Sequential read** 103 MB/sec (Max.)
 - **Sequential write** 74.1 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, 20G, 3 axes
 - **Shock** 0.5ms, 1500G, 3 axes
 - **Altitude** 70,000 feet

- **Power consumption**
 - **Power requirement** +5V ± 10% / + 3.3V ± 10%
 - **Reading mode** 185.4 mA (Max.)
 - **Writing mode** 168.7 mA(Max.)
 - **Idle mode** 1.2 mA (Max.)
- **Reliability**
 - **Wear-leveling** Global wear-leveling algorithms
Up to 75 TBW at 256GB Capacity
(Client workload by JESD-219A)
 - **TBW**
 - **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
4GB	SPCFC004G-MKCTMB-UF	WPCFC004G-MKCTMB-UFC	4GB	SRCFC004G-MKCTMB-UF	WRCFC004G-MKCTMB-UFC
8GB	SPCFC008G-MKCTMB-UF	WPCFC008G-MKCTMB-UFC	8GB	SRCFC008G-MKCTMB-UF	WRCFC008G-MKCTMB-UFC
16GB	SPCFC016G-MKCTMB-UF	WPCFC016G-MKCTMB-UFC	16GB	SRCFC016G-MKCTMB-UF	WRCFC016G-MKCTMB-UFC
32GB	SPCFC032G-MKCTMB-UF	WPCFC032G-MKCTMB-UFC	32GB	SRCFC032G-MKCTMB-UF	WRCFC032G-MKCTMB-UFC
64GB	SPCFC064G-MKCTMB-UF	WPCFC064G-MKCTMB-UFC	64GB	SRCFC064G-MKCTMB-UF	WRCFC064G-MKCTMB-UFC
128GB	SPCFC128G-MKCTMB-UF	WPCFC128G-MKCTMB-UFC	128GB	SRCFC128G-MKCTMB-UF	WRCFC128G-MKCTMB-UFC
256GB	SPCFC256G-MKCTMB-UF	WPCFC256G-MKCTMB-UFC	256GB	SRCFC256G-MKCTMB-UF	WRCFC256G-MKCTMB-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	—	M	K	C	T	M	B	—	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

004G : 4GB 064G : 64GB
008G : 8GB 128G : 128GB
016G : 16GB 256G : 256GB
032G : 32GB

X11 Controller

M : HERCULES Series

X12 Controller version

A, B, C, D...K

X13 Controller grade

C : Commercial grade

X14 Flash IC brand

T : Toshiba NAND flash IC

X15 Flash IC type

M : MLC-NAND flash IC

X16 MLC Technology

B : Toshiba 15nm MLC

X18 X19 Data transfer rate / Disk types

PF : Optional as PIO-4 mode / Fixed disk type
PR : Optional as PIO-4 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

X20 Reserved for specific requirements

C : Conformal coating (optional)

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