



Features

- Enhanced MLC-NAND flash by sophisticated aSLC firmware
- 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 4GB up to 128GB

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** 116.8 MB/sec (Max.)
 - **Sequential write** 90.9 MB/sec (Max.)
 - **4KB random read** 13.7 MB/sec (Max.)
 - **4KB random write** 11 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** 123 mA (Max.)
 - **Writing mode** 118 mA(Max.)
 - **Idle mode** 3 mA (Max.)
- **Reliability**
 - **Wear-leveling** Static, Dynamic and Global Wear Leveling algorithms
 - **TBW** Up to 251.4 TBW at 128GB Capacity (Client workload by JESD-219A)
 - **Erase counts** Up to 20,000 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 20,000 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-HFCTMASUF	WPCFC004G-HFCTMASUF	4GB	SRCFC004G-HFCTMASUF	WRCFC004G-HFCTMASUF
8GB	SPCFC008G-HFCTMASUF	WPCFC008G-HFCTMASUF	8GB	SRCFC008G-HFCTMASUF	WRCFC008G-HFCTMASUF
16GB	SPCFC016G-HFCTMASUF	WPCFC016G-HFCTMASUF	16GB	SRCFC016G-HFCTMASUF	WRCFC016G-HFCTMASUF
32GB	SPCFC032G-HFCTMASUF	WPCFC032G-HFCTMASUF	32GB	SRCFC032G-HFCTMASUF	WRCFC032G-HFCTMASUF
64GB	SPCFC064G-HFCTMASUF	WPCFC064G-HFCTMASUF	64GB	SRCFC064G-HFCTMASUF	WRCFC064G-HFCTMASUF
128GB	SPCFC128G-HFCTMASUF	WPCFC128G-HFCTMASUF	128GB	SRCFC128G-HFCTMASUF	WRCFC128G-HFCTMASUF

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	1	2	8	G	-	H	F	C	T	M	A	S	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 032G : 32GB
008G : 8GB 064G : 64GB
016G : 16GB 128G : 128GB
- 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
- X16 X17 aSLC Technology**
AS : aSLC Technology extends MLC products' lifespan
- X18 X19 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
- X20 Reserved for specific requirements**
C : Conformal coating (optional)

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