



Features

- SLC-NAND flash technology
- Support PC Card Memory mode or True IDE mode
- Optional rugged metal frame
- Support C.H.S./LBA customization
- Capacities from 16MB up to 8GB

Specification

- **Compatibility** PC card standard, PCMCIA V.2.1
Compatible with ATA/ATAPI-6
- **Declarations** RoHS & REACH compliant
- **Flash technology** SLC-NAND flash technology
- **Form-factor** PCMCIA Type II
- **Host Interface** Female 68 pins
- **Performance**
 - **Data transfer rate** PIO 0~6, MWDMA 0~2, UDMA 0~4
 - **Sequential read** 40 MB/sec (Max.)
 - **Sequential write** 28.3 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, 15G, 3 axes
 - **Shock** 0.5ms, 1500 G, 3 axes
 - **Altitude** 70,000 feet
- **Power consumption**

- **Power requirement** +5V ± 10% / +3.3V ± 10%
- **Reading mode** 150 mA (Max.)
- **Writing mode** 135 mA(Max.)
- **Idle mode** 2.4 mA (Max.)
- **Reliability**
 - **Wear-leveling** Static wear-leveling algorithms
 - **TBW** Up to 421.8 TBW at 8GB 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 : 30g
Rugged metal frame : 35g
 - **Dimension (WxLxH)** 54.0 x 85.6 x 5.0 (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

Standard plastic frame AFC			Optional rugged metal AFC		
Capacity	0°C~+70°C	-40°C~+85°C	Capacity	0°C~+70°C	-40°C~+85°C
16MB	SPAFC016M-HACTC-UF	WPAFC016M-HAITI-UF	16MB	SRAFC016M-HACTC-UF	WRAFC016M-HAITI-UF
32MB	SPAFC032M-HACTC-UF	WPAFC032M-HAITI-UF	32MB	SRAFC032M-HACTC-UF	WRAFC032M-HAITI-UF
64MB	SPAFC064M-HACTC-UF	WPAFC064M-HAITI-UF	64MB	SRAFC064M-HACTC-UF	WRAFC064M-HAITI-UF
128MB	SPAFC128M-HACTC-UF	WPAFC128M-HAITI-UF	128MB	SRAFC128M-HACTC-UF	WRAFC128M-HAITI-UF
256MB	SPAFC256M-HACTC-UF	WPAFC256M-HAITI-UF	256MB	SRAFC256M-HACTC-UF	WRAFC256M-HAITI-UF
512MB	SPAFC512M-HACTC-UF	WPAFC512M-HAITI-UF	512MB	SRAFC512M-HACTC-UF	WRAFC512M-HAITI-UF
1GB	SPAFC001G-HACTC-UF	WPAFC001G-HAITI-UF	1GB	SRAFC001G-HACTC-UF	WRAFC001G-HAITI-UF
2GB	SPAFC002G-HACTC-UF	WPAFC002G-HAITI-UF	2GB	SRAFC002G-HACTC-UF	WRAFC002G-HAITI-UF
4GB	SPAFC004G-HACTC-UF	WPAFC004G-HAITI-UF	4GB	SRAFC004G-HACTC-UF	WRAFC004G-HAITI-UF
8GB	SPAFC008G-HACTC-UF	WPAFC008G-HAITI-UF	8GB	SRAFC008G-HACTC-UF	WRAFC008G-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
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Example

W	P	A	F	C	0	0	8	G	-	H	A	I	T	I	-	U	F	C	
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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
R : Rugged metal frame

X3 X4 X5 Product category

AFC : PCMCIA ATA Flash Card

X6 X7 X8 X9 Capacity

016M : 16MB 512M : 512MB
032M : 32MB 001G : 1GB
064M : 64MB 002G : 2GB
128M : 128MB 004G : 4GB
256M : 256MB 008G : 8GB

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)

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