



Features

- SLC-NAND flash technology
- Optional rugged metal frame
- Support Trim command set
- Support Native Command Queuing (NCQ)
- Support LDPC (Low Density Parity Check) ECC algorithm
- Support S.M.A.R.T. command set and utility
- Support Power Loss Protection
- Capacities from 8GB up to 32GB

Specification

- **Compatibility**
 - SATA Revision 3.2
 - CFast™ Specification v2.0
 - ATA-8 ACS4 command set
- **Declarations**
 - RoHS & REACH compliant
- **Flash technology**
 - SLC-NAND flash technology
- **Form-factor**
 - CFast™ Type I
- **Host interface**
 - 7 pins (data) + 17 pins (power)
 - CFast™ connector
- **Performance**
 - **Data transfer rate**
 - SATA 1.5Gb/s, 3.0Gb/s, 6.0Gb/s
 - **Sequential read**
 - 510 MB/sec (Max.)
 - **Sequential write**
 - 305 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**
 - 80 Hz to 2K Hz, 20G, 3axes
 - **Shock**
 - 0.5ms, 1500 G, 3 axes
 - **Altitude**
 - 70,000 feet

- **Power consumption**
 - **Power requirement**
 - +3.3V ± 5%
 - **Reading mode**
 - 1,650 mW (Max.)
 - **Writing mode**
 - 1,700 mW(Max.)
 - **Idle mode**
 - 325 mW (Max.)
- **Reliability**
 - **Wear-leveling**
 - Static and Dynamic wear-leveling algorithms
 - **TBW**
 - Up to 325 TBW at 32GB Capacity (Client workload by JESD-219A)
 - **MTBF**
 - > 3,000,000 hours
 - **Erase counts**
 - Up to 60,000 times
 - **ECC**
 - LDPC (Low Density Parity Check)
- **Physical specification**
 - **Weight (Max.)**
 - Plastic frame : 10g
 - Rugged metal frame : 13g
 - **Dimension (WxLxH)**
 - 42.8 x 36.4 x 3.5 (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 CFA			Optional rugged metal CFA		
Capacity	0°C~+70°C	-40°C~+85°C	Capacity	0°C~+70°C	-40°C~+85°C
8GB	SPCFA008G-PKCTC-(T)	WPCFA008G-PKITI-(T)	8GB	SRCFA008G-PKCTC-(T)	WRCFA008G-PKITI-(T)
16GB	SPCFA016G-PKCTC-(T)	WPCFA016G-PKITI-(T)	16GB	SRCFA016G-PKCTC-(T)	WRCFA016G-PKITI-(T)
32GB	SPCFA032G-PKCTC-(T)	WPCFA032G-PKITI-(T)	32GB	SRCFA032G-PKCTC-(T)	WRCFA032G-PKITI-(T)

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	R	C	F	A	0	3	2	G	-	P	K	I	T	I	-	T	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

CFA : CFast™ card

X6 X7 X8 X9 Capacity

008G : 8GB
 016G : 16GB
 032G : 32GB

X11 Controller

P : PHANES Series

X12 Controller version

A, B, C, D.....K

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 X19 X20 Reserved for specific requirements

Blank : Standard product w/o thermal sensor and conformal-coating
 T : Thermal Sensor (optional)
 C : Conformal coating (optional)

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