



Features

- TOSHIBA BiCS Flash™ (3D-NAND) 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 64GB up to 128GB

Specification

- **Compatibility**
 - SATA Revision 3.2
 - CFast™ Specification v2.0
 - ATA-8 ACS4 command set
- **Declarations**
 - RoHS & REACH compliant
- **Flash technology**
 - TOSHIBA BiCS Flash™ (3D-NAND flash)
- **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**
 - 550 MB/sec (Max.)
 - **Sequential write**
 - 450 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**
 - 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**
 - 1,270 mW (Max.)
 - **Writing mode**
 - 1,360 mW (Max.)
 - **Idle mode**
 - 325 mW (Max.)
- **Reliability**
 - **Wear-leveling**
 - Static and Dynamic wear-leveling algorithms
 - Up to 75 TBW at 128GB Capacity (Client workload by JESD-219A)
 - **TBW**
 - Up to 3,000 times
 - **Erase counts**
 - 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**
 - 2 years or within 3,000 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
64GB	SPCFA064G-PKCT3	WPCFA064G-PKCT3-C	64GB	SRCFA064G-PKCT3	WRCFA064G-PKCT3-C
128GB	SPCFA128G-PKCT3	WPCFA128G-PKCT3-C	128GB	SRCFA128G-PKCT3	WRCFA128G-PKCT3-C

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	1	2	8	G	-	P	K	C	T	3	-	C			
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- 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**
 CFA : CFast™ card
- X6** **X7** **X8** **X9** **Capacity**
 064G : 64GB
 128G : 128GB
- X11** **Controller**
 P : PHANES 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**
 3 : BiCS 3D-NAND Flash IC
- X17** **X18** **X19** **X20** **Reserved for specific requirements**
 C : Conformal coating (optional)

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