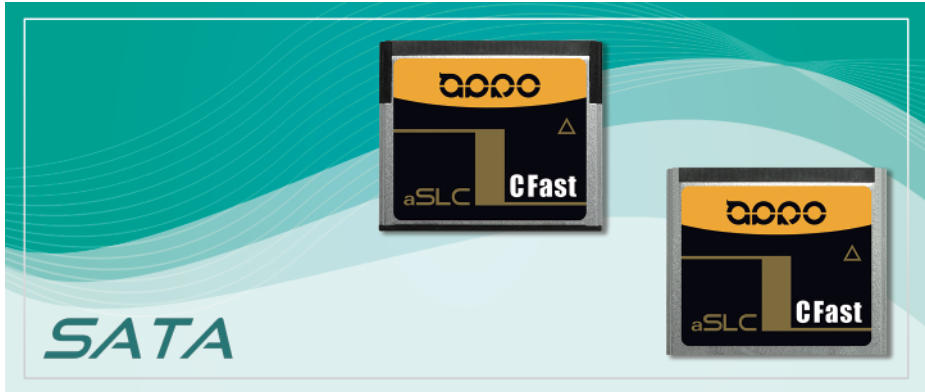


# PHANES-K Series

aSLC SATA III CFast Card



## Product Feature

- aSLC - NAND type flash technology
- Optional rugged metal frame
- S.M.A.R.T. supported
- RoHS & REACH compliant
- Capacity from 16GB up to 64GB

## Product Specification

### Compatibility

- CFast Specification V2.0
- SATA 1.0a, SATA 2.6 and SATA 3.0
- Compliant with ATA/ATAPI-8 ACS2

### Flash technology

- aSLC-NAND type flash memory

### 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 ■ 555 MB/sec (Max.)
- Sequential write ■ 465 MB/sec (Max.)

### Environmental specification

- 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

### Conformal coating

- For wide temperature

- Humidity ■ 10% ~ 95% non-condensing
- Vibration ■ 80 Hz to 2K Hz, 20G, 3 axes
- Shock ■ 0.5ms, 1500 G, 3 axes
- Altitude ■ 70,000 feet

### Power consumption

- Power requirement ■ +3.3V±5%
- Reading mode ■ 1090 mW (Max.)
- Writing mode ■ 1475 mW (Max.)
- Idle mode ■ 260 mW (Max.)

### Reliability

- Wear-leveling ■ Static and Dynamic wear-leveling algorithms
- ECC ■ Designed with hardware LDPC ECC engine with hard-decision and soft-decision decoding.

### Physical specification


- Weight ■ Plastic frame CFA : 10.0 ± 1 g / 0.40 oz.  
■ Rugged metal frame CFA : 13.0 ± 1 g / 0.46 oz.
- Dimension(W x L x H) ■ 42.8 x 36.4 x 3.5 (mm)

### Warranty


- aSLC(standard/wide temp.) ■ 2 years or within 20K Erasing counts

### Part Number List

#### Standard plastic frame CFA ▶

Product Picture	Capacity	0°C ~ 70°C	- 40°C ~ + 85°C
	16GB	SPCFA016G-PKCTMAS	WPCFA016G-PKCTMAS-C
	32GB	SPCFA032G-PKCTMAS	WPCFA032G-PKCTMAS-C
	64GB	SPCFA064G-PKCTMAS	WPCFA064G-PKCTMAS-C

#### Optional rugged metal frame CFA ▶

Product Picture	Capacity	0°C ~ 70°C	- 40°C ~ + 85°C
	16GB	SRCFA016G-PKCTMAS	WRCFA016G-PKCTMAS-C
	32GB	SRCFA032G-PKCTMAS	WRCFA032G-PKCTMAS-C
	64GB	SRCFA064G-PKCTMAS	WRCFA064G-PKCTMAS-C

### Part Number Decoder

X1 X2 X3 X4 X5 X6 X7 X8 X9 — X11 X12 X13 X14 X15 X16 X17 — X19 X20

#### Example ▶

W R C F A 0 6 4 G — P K C T M A S — C

#### 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

016G : 16GB  
 032G : 32GB  
 064G : 64GB

#### 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

M : MLC-NAND flash IC

#### X16 X17 aSLC Technology

AS : aSLC Technology extends MLC product's lifespan

#### X19 X20 Reserved for specific requirement

C : Conformal coating for wide temp. grade